

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

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

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5 **8-01.1.GR8** **Description**

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7 **8-01.1(1).GR8** **Definitions**

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9 **8-01.1(1).INST1.GR8** (Item 1C of Section 8-01.1(1) is revised to read)
10 Must use once preceding any of the following:

11
12 **8-01.1(1).OPT1.GR8** (February 25, 2021)
13 Use in all projects.

14
15 **8-01.1(1).INST2.GR8** (Item 2E of Section 8-01.1(1) is revised to read)
16 Must use once preceding any of the following:

17
18 **8-01.1(1).OPT2.GR8** (February 25, 2021)
19 Use in all projects.

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21 **8-01.3.GR8** **Construction Requirements**

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23 **8-01.3(1).GR8** **General**

24
25 **8-01.3(1).INST1.GR8** (The tenth paragraph of Section 8-01.3(1) is revised to
26 read)
27 Must use once preceding any of the following:

28
29 **8-01.3(1).OPT1.GR8** (Erodible Soil Eastern Washington)
30 (January 25, 2010)
31 Use for projects east of the Cascade range in areas
32 receiving 12 inches or less annual precipitation. Do not
33 use if any portion of the project lies in areas that
34 receive more than 12 inches of annual precipitation.
35 See
36 https://www.wsdot.wa.gov/publications/fulltext/Hydraulics/Wa_MeanAnnualPrecip.pdf for precipitation map.

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38
39 **8-01.3(1).INST2.GR8** (Section 8-01.3(1) is supplemented with the following)
40 Must use once preceding any of the following:

41
42 **8-01.3(1).OPT8.FR8** (Side Slope Treatment)
43 (April 1, 2002)
44 Use on projects where erodible soils are anticipated
45 and it is desired to have the newly exposed slopes
46 walked before final erosion control can be
47 accomplished, in accordance with recommendation
48 from environmental office.
49 (1 fill-in)

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51 **8-01.3(1)B.GR8** **Erosion and Sediment Control (ESC) Lead**

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53 **8-01.3(1)B.INST1.GR8** (Section 8-01.3(1)B is revised to read)
54 Must use once preceding any of the following:

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[8-01.3\(1\)B.OPT1.GR8](#) (Non-Permit with ESC Lead)
(May 28, 2020)
Use on projects without a CSWGP but with ESC
Lead Item.

[8-01.3\(1\)B.INST2.GR8](#) (The second sentence of the first paragraph of Section
8-01.3(1)B is revised to read)
Must use once preceding any of the following:

[8-01.3\(1\)B.OPT2.GR8](#) (February 25, 2021)
Use in all projects.
Do not use with **8-01.3(1)B.OPT1.GR8**.

[8-01.3\(1\)B.INST3.GR8](#) (The second sentence of the second paragraph of
Section 8-01.3(1)B (excluding the numbered list) is
revised to read)
Must use once preceding any of the following:

[8-01.3\(1\)B.OPT3.GR8](#) (February 25, 2021)
Use in all projects.
Do not use with **8-01.3(1)B.OPT1.GR8**.

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

8-01.3(1)C1.GR8 **Disposal of Dewatering Water**

[8-01.3\(1\)C1.INST1.GR8](#) (Section 8-01.3(1)C1 is revised to read)
Must use once preceding any of the following:

[8-01.3\(1\)C1.OPT1.GR8](#) (February 25, 2021)
Use in all projects.

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

[8-01.3\(1\)C4.INST1.GR8](#) (Section 8-01.3(1)C4 is supplemented with the
following)
Must use once preceding any of the following:

[8-01.3\(1\)C4.OPT1.FR8](#) (Off-site stormwater routed through or around
Project site)
(August 6, 2012)
Use when there are known locations where
stormwater enters the project site and it is
desired to prevent this stormwater from flowing
uncontrolled through the project site.
(1 fill-in)

8-01.3(2).GR8 **Temporary Seeding and Mulching**

8-01.3(2)B.GR8 **Temporary Seeding**

[8-01.3\(2\)B.INST1.GR8](#) (Section 8-01.3(2)B is supplemented with the following)
Must use once preceding any of the following:

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

(Composition, proportion, quality and application rate of grass seed)
(August 4, 2014)
Use on projects where a common, non-native or non-source-identified seed can be used. This mix will generally be used within urban areas on small areas of disturbance. The fill-ins for the seed should be provided by the Region Landscape Architect or Headquarters Roadside and Site Development for regions without a Landscape Architect.
(2 fill-ins) (Fill-ins with dollar signs only are to be used as required)

[8-01.3\(2\)B.OPT2.FR8](#)

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

[8-01.3\(2\)B.OPT3.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.

[8-01.3\(2\)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 \$\$\$ 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)

8-02.GR8

Roadside Restoration

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 Man-Made Debris)
(August 4, 2014)

Use on projects that include soil amendment, and/or irrigation systems, and where man-made 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

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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**.

[8-02.2\(9-14\).GR8](#)

(Erosion Control and Roadside Planting)

[8-02.2\(9-14\).INST1.GR8](#) (Section 9-14 is supplemented with the following)

Must use once preceding the following:

[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.

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

(Topsoil)

[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:

[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 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 9-14.4(8) is supplemented with the following)

Must use once preceding any of the following:

[8-02.2\(9-14.5\(8\)\).OPT1.GR8](#) (January 3, 2010)

1 Use when the contract has less than 100
2 yards of compost, or less than 30 working
3 days and 100 yards of compost or greater.

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5 [8-02.2\(9-14.5\(8\)\).OPT2.GR8](#) (September 3, 2019)

6 May be used to allow biosolids compost on
7 projects that do not use compost on
8 stormwater BMPs. Use with concurrence
9 of the Hydraulics Engineer.

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

Construction Requirements

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13 [8-02.3.INST1.GR8](#)

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

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15
16 [8-02.3.OPT1.GR8](#)

(Biotic Soil Amendments)
(April 1, 2019)

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

26 Must also use **8-02.1.OPT2.GR8**, **8-02.2.OPT2.GR8**, **8-**
27 **02.4.OPT2.GR8**, and **8-02.5.OPT4.FR8**.

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30 **[8-02.3\(4\).GR8](#)**

Topsoil

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32 **[8-02.3\(4\)A.GR8](#)**

Topsoil Type A

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34 [8-02.3\(4\)A.INST1.GR8](#) (Section 8-02.3(4)A is supplemented with the following)
35 Must use once preceding any of the following:

36
37 [8-02.3\(4\)A.OPT1.FR8](#) (Topsoil Type A)
38 (August 3, 2015)

39 Must include with **8-02.2(9-14.2(1)).OPT1.FR8**.
40 (1 fill-in)

41
42 **[8-02.3\(5\).GR8](#)**

Roadside Seeding, Lawn and Planting Area Preparation

43
44 [8-02.3\(5\).INST1.GR8](#)

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

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46
47 [8-02.3\(5\).OPT1.FR8](#) (Application of Compost)
48 (August 5, 2013)

49 Include when no incorporation of compost is required.
50 (1 fill-in)

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52 [8-02.3\(5\).OPT2.FR8](#) (Application of Compost)
53 (August 5, 2013)

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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 Man-Made 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. Fill-in \$\$4\$\$ 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 \$\$7\$\$ 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.

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[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\(9\)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)

1 **8-02.3(11).GR8** **Mulch**

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3 **8-02.3(11).INST1.GR8** (Section 8-02.3(11) is supplemented with the following)
4 Must use once preceding any of the following:

5
6 **8-02.3(11).OPT1.FR8** (Placement of Bark or Wood Chip)
7 (April 2, 2012)
8 Use in projects requiring bark and wood chip mulch.
9 Use requires approval of the Region Landscape
10 Architect or HQ Region Liaison Landscape Architect.

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12 **8-02.3(11)A.GR8** **Mulch for Seeding Areas**

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14 **8-02.3(11)A.INST1.GR8** (Section 8-02.3(11)A is supplemented with the
15 following)
16 Must use once preceding any of the following:

17
18 **8-02.3(11)A.OPT1.FR8** (Type and rate of application of mulch)
19 (September 3, 2019)
20 Use in projects requiring the application of mulch
21 when the application rate per acre or the
22 allowable pounds in any single lift are revised
23 from the Standard Specifications.
24 (3 fill-ins)

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26 **8-02.3(13).GR8** **Plant Establishment**

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28 **8-02.3(13).INST1.GR8** (Section 8-02.3(13) is supplemented with the following)
29 Must use once preceding any of the following:

30
31 **8-02.3(13).OPT1.GR8** (January 5, 2015)
32 Use in projects with multiple year plant establishment.
33 Must include with **8-02.5.OPT1.GR8**.

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35 **8-02.4.GR8** **Measurement**

36
37 **8-02.4.INST1.GR8** (Section 8-02.4 is supplemented with the following)
38 Must use once preceding any of the following:

39
40 **8-02.4.OPT1.GR8** (January 5, 2015)
41 Use in projects where Topsoil, Compost, Soil
42 Amendments, or Bark or Wood Chip Mulch is applied
43 around trees or shrub beds, or in areas of less than one
44 acre. Must include with **8-02.5.OPT3.GR8**.

45
46 **8-02.4.OPT2.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
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 **8-02.1.OPT2.GR8**, **8-02.2.OPT2.GR8**, **8-**
4 **02.3.OPT1.GR8**, and **8-02.5.OPT4.FR8**.

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6 **8-02.5.GR8**

Payment

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8 **8-02.5.INST1.GR8**

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

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11 **8-02.5.OPT1.GR8**

(January 5, 2015)
Must include with **8-02.3(13).OPT1.GR8**.

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14 **8-02.5.OPT2.GR8**

(Removal of Buried Man-Made Debris)
(August 4, 2014)
Must include with **8-02.1.OPT1.GR8** and **8-**
17 **02.3(5).OPT4.GR8**.

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19 **8-02.5.OPT3.GR8**

(January 5, 2015)
Use in projects where Topsoil, Compost, Soil
21 Amendments, or Bark or Wood Chip Mulch is applied
22 around trees or shrub beds, or in areas of less than one
23 acre. Must include with **8-02.4.OPT1.GR8**.

24
25 **8-02.5.OPT4.FR8**

(Biotic Soil Amendments)
(April 1, 2019)
Use on projects to amend poor quality soils (which have a
28 lack of organic matter and little to no bioactivity) using
29 Biotic Soil Amendments (BSAs). Should only be used if
30 the soil is determined to be deficient from the results of a
31 soil organic matter test or the soil analysis and the
32 application of compost or topsoil is not possible due to
33 steepness or access. Use requires the approval of the
34 Region Landscape Architect or the HQ Region Liaison
35 Landscape Architect.
36 (1 fill-in) (Fill-in #1 indicates which seed item will be used
37 in conjunction with the BSA. Consult with the Region
38 Landscape Architect to determine which permanent
39 seeding item to use.)
40 Must also use **8-02.1.OPT2.GR8**, **8-02.2.OPT2.GR8**, **8-**
41 **02.3.OPT1.GR8**, and **8-02.4.OPT2.GR8**.

42
43 **8-02.5.INST2.GR8**

(The Bid item "Seeding, Fertilizing and Mulching", per acre in
44 Section 8-02.5 is revised to read:)
45 Must use once preceding any of the following:

46
47 **8-02.5.OPT5.GR8**

(February 25, 2021)
48 Use in all projects.

49
50 **8-10.GR8**

GUIDE POSTS

51
52 **8-10.1.GR8**

Description

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54 **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](#)

(Barrier Delineators)

(April 1, 2002)

Must also use **8-10.2.OPT1.GR8, 8-10.3.OPT1.GR8** or **8-10.3.OPT2.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](#)

(Barrier Delineators)

(August 6, 2018)

Must also use **8-10.1.OPT1.GR8, 8-10.3.OPT1.GR8** or **8-10.3.OPT2.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](#)

(Barrier Delineators)

(April 1, 2002)

Delineators placed 6" down from top.

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

[8-10.3.OPT2.GR8](#)

(Barrier Delineators)

(April 1, 2002)

Delineators placed on top of barrier.

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

(Barrier Delineators)

(April 1, 2002)

Must also use **8-10.1.OPT1.GR8, 8-10.2.OPT1.GR8 8-10.3.OPT1.GR8**, or **8-10.3.OPT2.GR8**, and **8-10.5.OPT1.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.GR8](#)

(Barrier Delineators)

(April 1, 2002)

1 Must also use **8-10.1.OPT1.GR8, 8-10.2.OPT1.GR8 8-**
2 **10.3.OPT1.GR8, or 8-10.3.OPT2.GR8, and 8-**
3 **10.4.OPT1.GR8.**

4
5 **8-11.GR8** **Guardrail**

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7 **8-11.1.GR8** **Description**

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9 **8-11.1.INST1.GR8** (Section 8-11.1 is supplemented with the following)
10 Must use once preceding any of the following:

11
12 **8-11.1.OPT1.GR8** (High-Tension Cable Barrier System 4 Cable)
13 (February 3, 2020)
14 Must also use **8-11.2.OPT2.GR8, 8-11.3.OPT2.FR8, 8-**
15 **11.4.OPT2.GR8, 8-11.5.OPT7.GR8, and 8-**
16 **11.5.OPT8.GR8.**

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19 **8-11.1.OPT2.GR8** (Aesthetic Treatment for Beam Guardrail)
20 (January 7, 2019)
21 Use in all projects that require Aesthetic Treatment for
22 Beam Guardrail. This replaces the use of Weathering Steel
23 Beam Guardrail.
24 Must also use **8-11.2.OPT4.GR8, 8-11.3.OPT4.GR8, 8-**
25 **11.4.OPT4.GR8, and 8-11.5.OPT1.GR8.**

26
27 **8-11.2.GR8** **Materials**

28
29 **8-11.2.INST1.GR8** (Section 8-11.2 is supplemented with the following)
30 Must use once preceding any of the following:

31
32 **8-11.2.OPT2.GR8** (High-Tension Cable Barrier System 4 Cable)
33 (September 3, 2019)
34 Must also use **8-11.1.OPT1.GR8, 8-11.3.OPT2.FR8, 8-**
35 **11.4.OPT2.GR8, 8-11.5.OPT7.GR8, and 8-**
36 **11.5.OPT8.GR8.**

37
38 **8-11.2.OPT4.GR8** (Aesthetic Treatment for Beam Guardrail)
39 (January 2, 2018)
40 Use in all projects that require Aesthetic Treatment for
41 Beam Guardrail. This replaces the use of Weathering
42 Steel Beam Guardrail.
43 Must also use **8-11.1.OPT2.GR8, 8-11.3.OPT4.GR8, 8-**
44 **11.4.OPT4.GR8, and 8-11.5.OPT1.GR8.**

45
46 **8-11.2(9-16.3).GR8** **(Beam Guardrail)**

47
48 **8-11.2(9-16.3(2)).GR8** **(Posts and Blocks)**

49
50 **8-11.2(9-16.3(2)).INST1.GR8** (Section 9-16.3(2) is supplemented with
51 the following)
52 Must use once preceding any of the following:
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[8-11.2\(9-16.3\(2\)\).OPT1.GB8](#) (Steel shear plates and backing plates)
(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 **6-02.2.OPT1.GR6, 6-02.3(18).OPT1.GR6,**
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 **6-**
02.2.OPT1.GR6, 6-02.3(18).OPT1.GR6, 8-11.2(9-
16.3(4)).OPT1.GB8, and 8-11.3(1)A.OPT2.GB8.

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

[8-11.2\(9-16.3\(2\)\).OPT4.GB8](#) (Beam Guardrail Type WP Thrie Beam)
(April 6, 2015)
Use in thrie beam retrofit projects with weak post thrie
beam guardrail retrofit (beam guardrail Type WP Thrie
Beam). Include with **1-07.1.OPT2.FR1, 8-11.2(9-**
16.3(4)).OPT2.GB8, 8-11.3(1)A.OPT3.GB8, 8-
11.3(1)B.OPT9.GB8, 8-11.3(1)H.OPT1.GB8, 8-
11.3(1)D.OPT1.GB8.

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

[8-11.2\(9-16.3\(4\)\).OPT1.GB8](#) (Resin bonded anchors)
(April 6, 2015)
Use in thrie beam retrofit projects requiring resin
bonded anchors for connection to concrete baluster
railing end posts, and concrete curbs and railbases.
Include with **6-02.2.OPT1.GR6, 6-02.3(18).OPT1.GR6,**
and either 8-11.2(9-16.3(2)).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, or 8-11.2(9-16.3(2)).OPT2.GB8
and 8-11.3(1)A.OPT2.GB8.

[8-11.2\(9-16.3\(4\)\).OPT2.GB8](#) (Lag screws)
(April 6, 2015)

1 Use in thrie beam retrofit projects requiring
2 connections with lag screws to timber members and
3 blockouts.

4 **8-11.3.GR8**

Construction Requirements

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6 **8-11.3.INST1.GR8**

(Section 8-11.3 is supplemented with the following)
Must use once preceding any of the following:

7
8
9 **8-11.3.OPT1.GR8**

(Box Culvert Guardrail Steel Posts)
(August 6, 2018)
Must also use **8-11.4.OPT1.GR8** and **8-11.5.OPT6.GR8**.
Use in projects requiring the construction of steel guardrail
posts on top of existing concrete box culverts.

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15 **8-11.3.OPT2.FR8**

(High-Tension Cable Barrier System 4 Cable)
(February 3, 2020)
Must also use **8-11.1.OPT1.GR8**, **8-11.2.OPT2.GR8**, **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)

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25 **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**.

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33 **8-11.3(1).GR8**

Beam Guardrail

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35 **8-11.3(1).INST1.GR8**

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

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38 **8-11.3(1).OPT1.GR8**

Post Selection
(April 5, 2010)
Use in projects that specifically require wood guardrail
posts or specifically require steel guardrail posts.

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43 **8-11.3(1)A.GR8**

Erection of Posts

44
45 **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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48
49 **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

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blockouts wedged between openings in existing concrete baluster rails. Include with **6-02.2.OPT1.GR6, 6-02.3(18).OPT1.GR6, 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 **6-02.2.OPT1.GR6, 6-02.3(18).OPT1.GR6, 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 **1-07.1.OPT2.FR1, 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, 8-11.3(1)D.OPT1.GB8.**

[8-11.3\(1\)A.INST2.GR8](#)

(The fourth paragraph of Section 8-11.3(1)A is revised to read:
Must use once preceding any of the following:

[8-11.3\(1\)A.OPT4.GR8](#)

(Guardrail Leave-Outs)
(January 13, 2021)
Use in all projects with guardrail.

[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)

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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 **6-02.2.OPT1.GR6, 6-02.3(18).OPT1.GR6, 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)
(January 13, 2021)
Use in thrie beam retrofit projects where the beam 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)
(BSP August 3, 2009)
Include in thrie beam retrofit projects with weak post thrie beam guardrail retrofit (beam guardrail Type WP Thrie Beam). Include with **1-07.1.OPT2.FR1, 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, 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 **1-07.1.OPT2.FR1, 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 **1-07.1.OPT2.FR1, 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)
(March 13, 1995)

Must include with 8-11.3.OPT1.GR8 and 8-11.5.OPT6.GR8.

Use in projects requiring the construction of steel guardrail posts on top of concrete box culverts.

8-11.4.OPT2.GR8

(High-Tension Cable Barrier System 3 and 4 Cable)
(February 3, 2020)

Must also use **8-11.1.OPT1.GR8, 8-11.2.OPT2.GR8, 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.OPT2.GR8

(Guardrail Leave-Outs)
(January 13, 2021)

Use in all projects with guardrail.

8-11.5.OPT6.GR8

(Box Culvert Guardrail Steel Posts)
(August 6, 2018)

Must include with 8-11.3.OPT1.GR8 and 8-11.4.OPT1.GR8.

Use in projects requiring the construction of steel guardrail posts on top of concrete box culverts.

8-11.5.OPT7.GR8

(High-Tension Cable Barrier)
(February 3, 2020)

Must also use **8-11.1.OPT1.GR8, 8-11.2.OPT2.GR8, 8-11.3.OPT2.FR8, 8-11.4.OPT2.GR8 and 8-11.5.OPT8.GR8.**

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[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.GR8, 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.

[8-12.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)

[8-12.2.OPT6.GB8](#) (Cable Fence)
(September 3, 2019)
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.

[8-12.3.GR8](#) Construction Requirements

[8-12.3.INST1.GR8](#) (Section 8-12.3 is supplemented with the following)
Must use once preceding any of the following:

[8-12.3.OPT1.GB8](#) (Cable Fence)
Use once preceding the following:

[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.

[8-12.3.OPT1\(B\).GB8](#) (Cable Fence)
(April 6, 2015)
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

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concrete structures. Include with **8-12.3.OPT1(C).GB8** when painting of the galvanized fence posts is required.

[8-12.3.OPT1\(C\).GB8](#)

(Cable Fence)
(January 2, 2018)
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.

[8-12.4.GR8](#)

Measurement

[8-12.4.INST1.GR8](#)

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

[8-12.4.OPT1.GB8](#)

(Cable Fence)
(April 6, 2015)
Use in projects with cable fence. Include with **8-12.2.OPT6.GB8, 8-12.3.OPT1(B).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.

[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:

[8-12.5.OPT1.GR8](#)

(Coated chain link fence)
(April 1, 2002)
Use in projects requiring the construction of coated chain link fence.

[8-12.5.OPT6.GB8](#)

(Cable Fence)
(April 6, 2015)
Use in projects with cable fence. Include with **8-12.2.OPT6.GB8, 8-12.3.OPT1(B).GB8, and 8-12.4.OPT1.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.

[8-13.GR8](#)

Monument Cases

[8-13.1.GR8](#)

Description

[8-13.1.INST1.GR8](#)

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

[8-13.1.OPT1.GR8](#)

(Monument pipes included in work)

(March 13, 1995)
Must also use **8-13.2.OPT1.GR8**, **8-13.3.OPT1.GR8**, **8-13.4.OPT1.GR8** and **8-13.5.OPT1.GR8**.
Use in projects requiring that the monument pipes be installed by the Contractor.

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.INST1.GR8 (The last paragraph of Section 8-13.3 is revised to read)
Must use once preceding any of the following:

8-13.3.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.

8-13.4.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**

8-14.1.GR8 **Description**

1	<u>8-14.1.INST1.GR8</u>	(Section 8-14.1 is revised to read) Must use once preceding any of the following:
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4	<u>8-14.1.OPT1.GR8</u>	(ADA Feature work) (April 3, 2017) Use in all projects that require any ADA Feature work. Must use with 1-05.4.OPT4.GR1 , 8-14.3.OPT2.GR8 , and 8-14.3.OPT3.GR8 .
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10	<u>8-14.3.GR8</u>	Construction Requirements
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12	<u>8-14.3.INST1.GR8</u>	(Section 8-14.3 is supplemented with the following) Must use once preceding any of the following:
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15	<u>8-14.3.OPT1.GR8</u>	(Pre-construction meeting for cement concrete sidewalks, curb ramps or other pedestrian access routes to discuss ADA issues before Work begins) (April 3, 2017) 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.
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25	<u>8-14.3.OPT2.GR8</u>	(Timing Restrictions) (January 7, 2019) Use in all projects that require any ADA Feature work where sidewalk, curb ramp, or bus stop closures are required to perform the work. Must use with 1-05.4.OPT4.GR8 , 8-14.1.OPT1.GR8 , and 8-14.3.OPT3.GR8 .
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33	<u>8-14.3.OPT3.GR8</u>	(Layout and Conformance to Grades) (January 7, 2019) Use in all projects that require any ADA Feature work. Must use with 1-05.4.OPT4.GR8 , 8-14.1.OPT1.GR8 , and 8-14.3.OPT2.GR8 .
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39	<u>8-14.3(5).GR8</u>	Detectable Warning Surface
40		
41	<u>8-14.3(5).INST1.GR8</u>	(The first paragraph of Section 8-14.3(5) is revised to read:) Must use once preceding any of the following:
42		
43		
44	<u>8-14.3(5).OPT1.GR8</u>	(January 13, 2021) Use in all projects constructing detectable warning surfaces.
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48	<u>8-15.GR8</u>	Riprap
49		
50	<u>8-15.4.GR8</u>	Measurement
51		
52	<u>8-15.4.INST1.GR8</u>	(Section 8-15.4 is supplemented with the following) Must use once preceding any of the following:
53		
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1	<u>8-15.4.OPT3.GR8</u>	(Special excavation)
2		(March 13, 1995)
3		Must also use 8-15.5.OPT8.GR8 .
4		Use in projects requiring excavation outside the limits of
5		structure excavation for riprap at bridge piers located
6		within streams.
7		
8	<u>8-15.4.OPT5.GR8</u>	(Excavation for riprap is included in cost of riprap
9		(The last paragraph of Section 8-15.4 is deleted)
10		(February 5, 2001)
11		Must also use 8-15.5.OPT1.GR8 .
12		Use in projects with small quantities of riprap or upon
13		recommendation of the Construction and Materials Division.:
14		
15	<u>8-15.5.GR8</u>	Payment
16		
17	<u>8-15.5.INST1.GR8</u>	(The first sentence of the second paragraph of Section
18		8-15.5 is revised to read)
19		Must use once preceding any of the following:
20		
21	<u>8-15.5.OPT1.GR8</u>	(Excavation for riprap is included in cost
22		of riprap)
23		(March 13, 1995)
24		Must include with 8-15.4.OPT5.GR8 .
25		Use in projects with small quantities of riprap or upon
26		recommendation of the Construction and Materials
27		Division.
28		
29	<u>8-15.5.INST2.GR8</u>	(Section 8-15.5 is supplemented with the following)
30		Must use once preceding the following:
31		
32	<u>8-15.5.OPT8.GR8</u>	(Special excavation)
33		(September 30, 1996)
34		Must include with 8-15.4.OPT3.GR8 .
35		Use in projects requiring excavation outside the limits of
36		structure excavation for riprap at bridge piers located
37		within streams.
38		
39	<u>8-16.GR8</u>	Concrete Slope Protection
40		
41	<u>8-16.3.GR8</u>	Construction Requirements
42		
43	<u>8-16.3(2).GR8</u>	Placing Semi-Open Concrete Masonry Units
44		
45	<u>8-16.3(2).INST1.GR8</u>	(Section 8-16.3(2) is supplemented with the following)
46		Must use once preceding any of the following:
47		
48	<u>8-16.3(2).OPT1.GR8</u>	(Requirements for semi-open precast masonry
49		units)
50		(December 19, 2005)
51		Must include with 8-16.5.OPT1.GR8 .
52		Use in projects requiring semi-open concrete masonry
53		slope protection.
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8-16.5.GR8 **Payment**

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

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

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

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 Materials Laboratory
Geotechnical Branch. 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

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(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 13, 2021)
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\(5\)\).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.FR8](#) 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\(11\)\).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](#) (September 30, 2020)
Use in all projects where a Ramp Meter or ITS Data Station controller is 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.

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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.FR8 Accessible Pedestrian Signal (APS) Pushbuttons
(January 13, 2021)
Use in projects requiring accessible pedestrian signal
(APS) pushbuttons. Do not use for RRFB system
pushbuttons.

For the fill-in, enter one of the following:

“See Contract Plans for table.”

or

Copy and paste in the following table (insert additional
lines as necessary):

Street (A)	Street (B)	Arrow Direction	QTY
		L	
		R	
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See <http://www.wsdot.wa.gov/Design/Traffic/APS.htm>
for instructions for filling out the tables.
(1 fill-in)

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

1 Plans or the dimension shown in the Plans must be
2 verified by the Engineer prior to fabrication.

3
4 [8-20.2\(1\).OPT3.GR8](#) (Traffic signal standards, strain pole standards
5 or combination traffic signal/lighting standards)
6 (March 13, 1995)
7 Use in projects with traffic signal systems when
8 standards are to be installed.

9
10 **[8-20.3.GR8](#)** **Construction Requirements**

11
12 **[8-20.3\(4\).GR8](#)** **Foundations**

13
14 [8-20.3\(4\).INST1.GR8](#) (Section 8-20.3(4) is supplemented with the following)
15 Must use once preceding any of the following:

16
17 [8-20.3\(4\).OPT1.FB8](#) (Shafts for Signal Standard Foundations)
18 (August 7, 2017)
19 Use in traffic signal projects with shaft foundations in
20 weak soils, with the concurrence of the Materials
21 Laboratory Geotechnical Branch. The fill-in specifies
22 the location(s) of the shaft(s) requiring construction
23 under these construction requirements. Include with
24 **8-20.2.OPT1.GB8 and 8-20.5.OPT1.GB8.**
25 (1 fill-in).

26
27 **[8-20.3\(8\).GR8](#)** **Wiring**

28
29 [8-20.3\(8\).INST1.GR8](#) (Section 8-20.3(8) is supplemented with the following)
30 Must use once preceding any of the following:

31
32 [8-20.3\(8\).OPT1.GR8](#) Field Wiring Chart
33 (March 13, 1995)
34 Use in projects with traffic signal systems.

35
36 **[8-20.3\(14\).GR8](#)** **Signal Systems**

37
38 [8-20.3\(14\).INST1.GR8](#) (Section 8-20.3(14) is supplemented with the following)
39 Must use once preceding any of the following:

40
41 [8-20.3\(14\).OPT1.GR8](#) Uninterruptible Power Supply (UPS)
42 (January 2, 2018)
43 With Region Traffic Engineer approval use in projects
44 where Uninterruptible Power Supply (UPS) cabinets
45 are required. Include with **8-20.2(9-29.13).OPT1.GR8.**

46
47 **[8-20.3\(14\)A.GR8](#)** **Signal Controllers**

48
49 [8-20.3\(14\)A.INST1.GR8](#) (Supplemental Instructions)
50 Must use once preceding any of the following:

51
52 [8-20.3\(14\)A.OPT1.GR8](#) Testing
53 (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)
Use in traffic signal projects with shaft foundations in weak soils, with the concurrence of the Materials Laboratory Geotechnical Branch. Include with **8-20.2.OPT1.GB8** and **8-20.3(4).OPT1.FB8**.

8-21.GR8

Permanent Signing

8-21.2.GR8

Materials

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(9-28.11).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(9-28.14).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 support structures.

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

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[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)

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)
(April 6, 2015)

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 Materials Laboratory Geotechnical Branch 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:

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. Include with **8-21.2(9-
28.14(2)).OPT1.GB8**, either **8-21.3(9)A.OPT1.GB8** or **8-
21.3(9)A.OPT2.FB8**. Include with **8-21.2(9-
28.14(2)).OPT2.GB8** when sign structures are constructed
with round tube or pipe.
(2 fill-ins)

8-23.GR8

Temporary Pavement Markings

8-23.3.GR8

Construction Requirements

8-23.3(4).GR8

Pavement Marking Application

8-23.3(4)(9-34.5).GR8 (Temporary Pavement Marking Tape)

8-23.3(4)(9-34.5(1)).GR8 (Temporary Pavement Marking Tape – Short
Duration (Non-Removable))
(Section 9-34.5(1)), including title, is revised to read)
Must use once preceding any of the following:

8-23.3(4)(9-34.5(1)).OPT1.GR8 (Temporary Pavement Marking Tape –
Short Duration)
(February 25, 2021)
Use in all projects.

8-23.3(4)(9-34.5(2)).GR8 (Temporary Pavement Marking Tape – Long
Duration (Non-Removable))
(Section 9-34.5(2)), including title, is revised to read)
Must use once preceding any of the following:

8-23.3(4)(9-34.5(2)).OPT1.GR8 (Temporary Pavement Marking Tape –
Long Duration)
(February 25, 2021)
Use in all projects.

8-24.GR8

**Rock and Gravity Block Wall, and Gabion
Cribbing**

8-24.2.GR8

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[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)
(January 7, 2002)
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)
(January 7, 2002)
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:

[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.

1 **8-25.1.OPT1.GR8, 8-25.2.OPT1.GR8, 8-25.4.OPT1.GR8,**
2 **and 8-25.5.OPT1.GR8.**

3
4 **8-25.4.GR8** **Measurement**

5
6 **8-25.4.INST1.GR8** (Section 8-25.4 is supplemented with the following)
7 Must use once preceding any of the following:

8
9 **8-25.4.OPT1.GR8** (April 1, 2002)
10 Use in projects when the work zone analysis determines
11 the need for temporary barrier screening.
12 **8-25.1.OPT1.GR8, 8-25.2.OPT1.GR8, 8-25.3.OPT1.GR8,**
13 **and 8-25.5.OPT1.GR8.**

14
15 **8-25.5.GR8** **Payment**

16
17 **8-25.5.INST1.GR8** (Section 8-25.5 is supplemented with the following)
18 Must use once preceding any of the following:

19
20 **8-25.5.OPT1.GR8** (April 1, 2002)
21 Use in projects when the work zone analysis determines
22 the need for temporary barrier screening.
23 **8-25.1.OPT1.GR8, 8-25.2.OPT1.GR8, 8-25.3.OPT1.GR8,**
24 **and 8-25.4.OPT1.GR8.**

25
26 **8-29.GR8** **Wire Mesh Slope Protection**

27
28 **8-29.1.GR8** **Description**

29
30 **8-29.1.INST1.GR8** (Section 8-29.1 is supplemented with the following)
31 Must use once preceding any of the following:

32
33 **8-29.1.OPT1.GR8** (Cable Net Slope Protection)
34 (April 5, 2010)
35 Use in projects with cable net slope protection. Include
36 with **8-29.2.OPT1.GR8, 8-29.3.OPT1.GR8, 8-**
37 **29.4.OPT1.GR8 and 8-29.5.OPT1.GR8.**

38
39 **8-29.2.GR8** **Materials**

40
41 **8-29.2.INST1.GR8** (Section 8-29.2 is supplemented with the following)
42 Must use once preceding any of the following:

43
44 **8-29.2.OPT1.GR8** (Cable Net Slope Protection Materials)
45 (January 2, 2018)
46 Use in projects with cable net slope protection. Include
47 with **8-29.1.OPT1.GR8, 8-29.3.OPT1.GR8, 8-**
48 **29.4.OPT1.GR8 and 8-29.5.OPT1.GR8.**

49
50 **8-29.3.GR8** **Construction Requirements**

51
52 **8-29.3.INST1.GR8** (Section 8-29.3 is supplemented with the following)
53 Must use once preceding any of the following:

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[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-SA1.GR8](#) Field Office Building
(August 7, 2017)
Use in projects when a field office building is required.

[8-SA2.GR8](#) Bollards
(January 2, 2018)
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 (Temporary Erosion and Sediment Control Manual (TESC)
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.