DIVISION6.GR6 **Structures**

6-01.GR6 **General Requirements For Structures**

6-01.5.GR6 **Work Access and Temporary Structures**

6-01.5.INST1.GR6 (Section 6-01.5 is re-titled and revised to read:)
Must use once preceding any of the following:

6-01.5.OPT1.FB6 (Work Access)
(April 1, 2019)
Use in projects requiring the Contractor to construct work access to perform structure removal and construction, including work trestle construction for work within or above an environmentally sensitive area as required by resource agency environmental permits and restrictions. The fill-in specifies the name of the environmentally sensitive area or waterway. Include with ***6-01.5.OPT1(B).GB6***.
Must use once preceding any of the following:
(1 fill-in)

6-01.5.OPT1(A).FB6 (Waterway Clearance Requirements)
(April 6, 2015)
Use in projects requiring the Contractor to construct the work access structure to conform to navigation clearance requirements of the USCG. The first fill-in specifies the minimum horizontal clearance required for the channel span. The second fill-in specifies the minimum elevation required for the bottom of the work access structure superstructure. Include with ***6-01.5.OPT1.FB6*** *and* ***6-01.5.OPT1(B).GB6***.
(2 fill-ins)

6-01.5.OPT1(B).GB6 (Payment)
(April 6, 2015)
Use in projects requiring the Contractor to construct work access to perform structure removal and construction, including work trestle construction for work within or above an environmentally sensitive area as required by resource agency environmental permits and restrictions. Include with ***6-01.5.OPT1.FB6***.

6-01.5.OPT2.FB6 (Temporary Bridge)
(August 6, 2018)
Use in projects requiring construction of a temporary bridge. The first fill-in specifies the minimum overall length of the temporary bridge, and can also be used to specify requirements for number of spans and lengths of specific spans, if necessary. The second fill-in specifies the minimum roadway width required between barriers or railings. The third fill-in specifies the minimum vertical clearance dimension to the roadway, body of water, or surface, specified in the fourth fill-in. If the length, width or

vertical clearance of the temporary bridge is shown in the plans, the specific geometric requirement item text in the specification can be deleted (or if all are shown in the plans, the entire geometric requirements paragraph can be deleted).
(4 fill-ins)

6-02.GR6 Concrete Structures

6-02.2.GR6 Materials

6-02.2.INST1.GR6 (Section 6-02.2 is supplemented with the following)
Must use once preceding any of the following:

6-02.2.OPT2.GB6 (Epoxy Bonding Agent For Surfaces And For Steel Reinforcing Bar Dowels)
(September 8, 2020)
Use in projects when epoxy resin is required for setting steel reinforcing bars into holes drilled into concrete. Include with ***6-02.3(24)C.OPT1.GB6***.

6-02.2.OPT4.GB6 (Epoxy Crack Sealing)
(November 2, 2022)
Use in projects which require sealing cracks in existing concrete with injected epoxy resin. Include with ***6-02.3.OPT1.GB6*** and ***6-02.5.OPT49.GB6***.

6-02.2.OPT26.GB6 (Rapid Cure Silicone Sealant)
(April 6, 2015)
Use in projects where rapid cure silicone sealant is used for expansion joint modification. Include with **6-02.3(13).OPT7(C).GB6, either 6-02.3(13).OPT7(I).GB6 or 6-02.3(13).OPT7(J).GB6, 6-02.4.OPT8.FB6 and 6-02.5.OPT33.GB6**, and all other applicable expansion joint modification GSPs supplementing Sections 6-02.2 and 6-02.3(13).

6-02.2.OPT27.GB6 (Polyester Concrete)
(April 6, 2015)
Use in projects where polyester concrete is required. Include with ***6-02.3.OPT9.GB6***.

6-02.2.OPT28.GB6 (Elastomeric Concrete)
(April 6, 2015)
Use in projects where elastomeric concrete is required. Include with ***6-02.3.OPT10.GB6***.

6-02.2.OPT46.GB6 (Bridge Supported Utilities)
Must use once preceding any of the following:

6-02.2.OPT46(A).GB6 (June 26, 2000)
Use in projects with bridge supported utilities when the supports include concrete inserts. Include with ***6-***

02.3.OPT2(A).GB6, 6-02.4.OPT1.FB6, and ***6-02.5.OPT26.FB6***.

6-02.2.OPT46(B).GB6 (Bridge Supported Utilities)
(September 3, 2019)
Use in projects with bridge supported utilities when the supports include steel rods, bars, and plates. Include with ***6-02.2.OPT46(A).GB6, 6-02.3.OPT2(A).GB6,*** and ***6-02.5.OPT92.FB6***, and either ***6-02.3.OPT2(B).GB6,*** or ***6-02.3.OPT2(C).GB6*** and ***6-02.5.OPT93.GB6***.

6-02.2.OPT46(C).GB6 (Bridge Supported Utilities)
(September 3, 2019)
Use in projects with bridge supported utilities when the supports include transverse braces. Include with ***6-02.2.OPT46(A).GB6, 6-02.2.OPT46(B).GB6, 6-02.3.OPT2(A).GB6,*** and ***6-02.5.OPT92.FB6***, and either ***6-02.3.OPT2(B).GB6,*** or ***6-02.3.OPT2(C).GB6*** and ***6-02.5.OPT93.GB6***.

6-02.2.OPT46(D).GB6 (Bridge Supported Utilities)
(June 26, 2000)
Use in projects with bridge supported utilities when the supports include pipe rolls or pipe saddles. Include with ***6-02.5.OPT92.FB6*** and other applicable bridge supported utility material and construction requirement GSP's.

6-02.2.OPT46(E).GB6 (Bridge Supported Utilities)
(September 3, 2019)
Use in projects with bridge supported utilities in concrete box girder bridges when the utilities are supported on anchor blocks on the bottom slab. Include with ***6-02.5.OPT92.FB6*** and other applicable bridge supported utility material and construction requirement GSP's.

6-02.2.OPT48.GB6 (Bridge Drain Risers)
(April 30, 2001)
Use in projects requiring the raising of bridge drains prior to asphalt or modified concrete overlay work on bridge decks. Include with ***6-02.3(10)D.OPT3.GB6***. Also include with ***6-02.3(10)D.OPT4.GB6*** if the bridge deck is overlaid with membrane waterproofing and ACP. Include with ***6-02.5.OPT53.FB6*** if the work is included in the cost of the membrane waterproofing or modified concrete overlay. Include with ***6-02.4.OPT26.GB6*** and ***6-02.5.OPT51.GB6*** if the unit contract bid item "Modify Bridge Drain" is used to pay for the work.

6-02.2.OPT58.GB6 (Core Drilled Bridge Deck Drain)
(September 8, 2020)

Use in projects with core drilled bridge deck drains. Include with **6-02.3(10)D.OPT12.GB6, and either 6-02.4.OPT32.GB6 and 6-02.5.OPT58.GB6, or 6-02.5.OPT59.FB6.**

6-02.2.OPT60.GB6 (Seismic Retrofit Materials)
(April 6, 2015)
Use in projects with seismic retrofit construction.
Must use once preceding any of the following:

6-02.2.OPT60(B).GB6 (Steel and PVC Pipe)
(April 6, 2015)
Use in projects with seismic retrofit work when steel and/or PVC pipe are used as materials. Include with **6-02.4.OPT44.FB6** and **6-02.5.OPT72.GB6,** and all other applicable seismic retrofit GSPs supplementing Sections 6-02.2 and 6-02.3.

6-02.2.OPT60(C).GB6 (Structural Steel and Steel Fastening Hardware)
(November 20,2023)
Use in projects with seismic retrofit work when structural steel and steel fastening hardware are used as materials. Include with **6-02.4.OPT44.FB6** and **6-02.5.OPT72.GB6,** and all applicable other seismic retrofit GSPs supplementing Sections 6-02.2 and 6-02.3.

6-02.2.OPT60(D).GB6 (High-Strength Steel Rods)
(September 8, 2020)
Use in projects with seismic retrofit work requiring the installation of longitudinal seismic restrainer assemblies. Include with **6-02.3.OPT8(L).GB6, 6-02.4.OPT44.FB6** and **6-02.5.OPT72.GB6,** and all other applicable seismic retrofit GSPs supplementing Sections 6-02.2 and 6-02.3.

6-02.2.OPT60(F).GB6 (Column Jacketing Materials)
(September 8, 2020)
Use in projects with seismic retrofit work when column jacketing is required. Include with **6-02.3.OPT8(C).GB6, 6-02.3.OPT8(D).GB6, 6-02.3.OPT8(E).GB6, 6-02.3.OPT8(M).GB6, 6-02.4.OPT45.FB6, 6-02.5.OPT73.GB6, and 6-03.3(30).OPT1.FB6. Include with 6-02.3.OPT8(F).FB6** when the pre-fabrication field measuring requirements for specific existing bridge columns are waived.

6-02.2.OPT61.GB6 (PCPS Conc. SIP Panels)
(September 8, 2020)
Use in projects with precast prestressed concrete stay-in-place panels. Include with **6-02.3(9)A.OPT6.GB6, 6-**

02.3(9)E.OPT6.GB6, 6-02.3(9)F.OPT1.GB6, 6-02.3(9)G.OPT6.GB6 and 6-02.3(9)I.OPT6.GB6.

6-02.3.GR6 Construction Requirements

6-02.3.INST1.GR6 (Section 6-02.3 is supplemented with the following)
Must use once preceding any of the following:

6-02.3.OPT1.GB6 (Epoxy Crack Sealing)
(September 7, 2021)
Use in projects which require sealing cracks in existing concrete with injected epoxy resin. Include with ***6-02.2.OPT4.GB6, 6-02.4.OPT24.GB6,*** and ***6-02.5.OPT49.GB6***.

6-02.3.OPT2.GB6 (Bridge Supported Utilities)
Must use once preceding any of the following:

6-02.3.OPT2(A).GB6 (Bridge Supported Utilities)
(August 3, 2015)
Use in projects with bridge supported utilities when the supports include concrete inserts. Include with ***6-02.2.OPT46.GB6, 6-02.4.OPT1.FB6,*** and ***6-02.5.OPT26.FB6***.

6-02.3.OPT2(B).GB6 (Bridge Supported Utilities)
(June 26, 2000)
Use in projects with bridge supported utilities when the Contractor furnishes and installs the supports and the utility pipe or conduit pipe. Include with ***6-02.5.OPT92.FB6*** and other applicable bridge supported utility material GSP's. Include with ***6-02.2.OPT46(A).GB6, 6-02.3.OPT2(A).GB6, 6-02.4.OPT1.FB6,*** and ***6-02.5.OPT26.FB6*** when the supports include concrete inserts.

6-02.3.OPT2(C).FB6 (Bridge Supported Utilities)
(June 26, 2000)
Use in projects with bridge supported utilities when the Utility Company furnishes, or furnishes and installs, some of the supports and pipe for the utilities. The first fill-in specifies the items to be furnished and installed by the Utility Company. The second and third fill-ins specify the items to be installed by the Contractor which are furnished by either the Utility Company or the Contractor. Include with ***6-02.5.OPT92.FB6*** and ***6-02.5.OPT93.GB6,*** and other applicable bridge supported utility material GSP's. Include with ***6-02.2.OPT46(A).GB6, 6-02.3.OPT2(A).GB6, 6-02.4.OPT1.FB6,*** and ***6-02.5.OPT26.FB6*** when the supports include concrete inserts.
(3 fill-ins)

6-02.3.OPT8.GB6 (Seismic Retrofit)
Must use once preceding one of the following:

6-02.3.OPT8(B).GB6 (Seismic Retrofit Demolition Plan)
(April 6, 2015)
Use in seismic retrofit projects where removal of portions of existing concrete and steel reinforcing bars, or cleaning and preparing of existing concrete surfaces is required. Include with ***6-02.4.OPT44.FB6, 6-02.3.OPT8(H).GB6,*** *and* ***6-02.5.OPT72.GB6,*** *and all other applicable seismic retrofit GSPs supplementing Sections 6-02.2 and 6-02.3*.

6-02.3.OPT8(C).GB6 (Column Jacket Installation Plan)
(April 6, 2015)
Use in projects with column jacketing of existing bridges. Include with **6-02.2.OPT60(F).GB6, 6-02.3.OPT8(D).GB6, 6-02.3.OPT8(E).GB6, 6-02.3.OPT8(M).GB6, 6-02.4.OPT45.FB6, 6-02.5.OPT73.GB6, and 6-03.3(30).OPT1.FB6. Include with 6-02.3.OPT8(F).FB6** when the pre-fabrication field measuring requirements for specific existing bridge columns are waived.

6-02.3.OPT8(D).GB6 (Column Jacket Shop Drawings)
(April 6, 2015)
Use in projects with column jacketing of existing bridges. Include with ***6-02.2.OPT60(F).GB6, 6-02.3.OPT8(C).GB6, 6-02.3.OPT8(E).GB6, 6-02.3.OPT8(M).GB6, 6-02.4.OPT45.FB6, 6-02.5.OPT73.GB6,*** *and* ***6-03.3(30).OPT1.FB6***. Include with ***6-02.3.OPT8(F).FB6*** when the pre-fabrication field measuring requirements for specific existing bridge columns are waived.

6-02.3.OPT8(E).GB6 (Field Measuring Existing Bridge Columns)
(September 8, 2020)
Use in projects where field measuring of existing bridge columns is required. Include with **6-02.2.OPT60(F).GB6, 6-02.3.OPT8(C).GB6, 6-02.3.OPT8(D).GB6, 6-02.3.OPT8(M).GB6, 6-02.4.OPT45.FB6, 6-02.5.OPT73.GB6, and 6-03.3(30).OPT1.FB6. Include with 6-02.3.OPT8(F).FB6** when the pre-fabrication field measuring requirements for specific existing bridge columns are waived.

6-02.3.OPT8(F).FB6 (Field Measuring Waiver for Specific Existing Bridge Columns)
(April 6, 2015)
Use in projects where the requirement of pre-fabrication field measuring of specific existing bridge columns is waived. The fill-in specifies the bridge(s)

and pier(s) where the column receiving the waiver is located. Include with ***6-02.2.OPT60(F).GB6, 6-02.3.OPT8(C).GB6, 6-02.3.OPT8(D).GB6, 6-02.3.OPT8(E).GB6, 6-02.3.OPT8(M).GB6, 6-02.4.OPT45.FB6, 6-02.5.OPT73.GB6,*** *and* ***6-03.3(30).OPT1.FB6***.
(1 fill-in)

6-02.3.OPT8(G).FB6 (Field Measuring for Seismic Retrofit Components)
(April 6, 2015)
Use in projects where field measuring of existing bridge members is required for seismic retrofit components. The first fill-in specifies the bridge(s) where the field measuring work is required. The second fill-in specifies the members or components to be measured. Include with ***6-02.4.OPT44.FB6*** *and* ***6-02.5.OPT72.GB6,*** *and all other applicable seismic retrofit GSPs supplementing Sections 6-02.2 and 6-02.3*.
(2-fill-ins)

6-02.3.OPT8(H).GB6 (Removing Portions of Existing Concrete)
(April 6, 2015)
Use in seismic retrofit projects where removal of portions of existing concrete and steel reinforcing bars, or cleaning and preparing of existing concrete surfaces is required. Include with ***6-02.3.OPT8(B).GB6, 6-02.4.OPT44.FB6*** *and* ***6-02.5.OPT72.GB6,*** and all other applicable seismic retrofit GSPs supplementing Sections 6-02.2 and 6-02.3.

6-02.3.OPT8(J).GB6 (Drilling Holes and Setting Steel Reinf. Bars, and Placing Concrete)
(April 6, 2015)
Use in seismic retrofit projects requiring the construction of catcher blocks, girder stops, and other concrete appendages. Include with ***6-02.3.OPT8(B).GB6, 6-02.3.OPT8(H).GB6, 6-02.3(24)C.OPT1.GB6, 6-02.4.OPT44.FB6,*** *and* ***6-02.5.OPT72.GB6,*** *and all other applicable seismic retrofit GSPs supplementing Sections 6-02.2 and 6-02.3*.

6-02.3.OPT8(K).GB6 (Installing and Tensioning High-Strength Steel Bar Reinforcement)
(April 6, 2015)
Use in seismic retrofit projects requiring the installation, stressing, and grouting of high-strength steel bar reinforcement. Include with ***6-02.4.OPT44.FB6*** *and* ***6-02.5.OPT72.GB6,*** *and all other applicable seismic retrofit GSPs supplementing Sections 6-02.2 and 6-02.3*.

6-02.3.OPT8(L).GB6 (Longitudinal Seismic Restrainers)
(November 20, 2023)
Use in seismic retrofit projects requiring the installation of longitudinal seismic restrainer assemblies. Include with **6-02.2.OPT60(B).GB6, 6-02.2.OPT60(C).BSP.GB6, 6-02.2.OPT60(D).GB6, either 6-02.4.OPT43.GB6 and 6-02.5.OPT71.GB6, or 6-02.4.OPT44.FB6 and 6-02.5.OPT72.GB6,** and all other applicable seismic retrofit GSPs supplementing Sections 6-02.2 and 6-02.3.

6-02.3.OPT8(M).GB6 (Column Jacketing)
(September 8, 2020)
Use in projects with column jacketing of existing bridges. Include with **6-02.2.OPT60(F).GB6, 6-02.3.OPT8(C).GB6, 6-02.3.OPT8(D).GB6, 6-02.3.OPT8(E).GB6, 6-02.4.OPT45.FB6, 6-02.5.OPT73.GB6, and 6-03.3(30).OPT1.FB6. Include with 6-02.3.OPT8(F).FB6** when the pre-fabrication field measuring requirements for specific existing bridge columns are waived.

6-02.3.OPT9.GB6 (Polyester Concrete)
(January 7, 2019)
Use in projects where polyester concrete is required. Include with ***6-02.2.OPT27.GB6***.

6-02.3.OPT10.GB6 (Elastomeric Concrete)
(January 7, 2019)
Use in projects where elastomeric concrete is required. Include with ***6-02.2.OPT28.GB6***.

6-02.3(2).GR6 Proportioning Materials

6-02.3(2).INST1.GR6 (Section 6-02.3(2) is supplemented with the following)
Must use once preceding any of the following:

6-02.3(2).OPT1.GB6 (Expansion Joint Header Concrete)
(September 8, 2020)
Use in projects with expansion joint modifications where the headers for the modified joints are made of a high early strength concrete mix. Include **with 6-02.2.OPT2.GB6, 6-02.3(24)C.OPT1.GB6, 6-02.3(13).OPT7(H).GB6, , or 6-02.4.OPT8.FB6 and 6-02.5.OPT33.GB6**, and all other applicable expansion joint modification GSPs supplementing Sections 6-02.2 and 6-02.3(13).

6-02.3(4).GR6 Ready-Mix Concrete

6-02.3(4)D.GR6 Temperature and Time for Placement

6-02.3(4)D.INST1.GR6 (Section 6-02.3(4)D is revised to read)
Must use once preceding any of the following:

6-02.3(4)D.OPT1.2026.GR6 (Temperature and Time for Placement)
(March 20, 2025)
Use in projects with ready-mix concrete.

6-02.3(6).GR6 Placing Concrete

6-02.3(6)B.GR6 Placing Concrete in Foundation Seals

6-02.3(6)B.INST1.GR6 (Section 6-02.3(6)B is supplemented with the following)
Must use once preceding any of the following:

6-02.3(6)B.OPT1.GB6 (Concrete Seals)
(June 26, 2000)
Use in projects where there is the possibility of seals being omitted during construction, in which case the footing is to be lowered to bottom of seal.

6-02.3(6)B.OPT2.GB6 (Concrete Seals)
(June 26, 2000)
Use in projects where there is the possibility of seals being omitted during construction, in which case the footing is not to be lowered.

6-02.3(9).GR6 Precast Concrete Panels

6-02.3(9)A.GR6 Shop Drawings

6-02.3(9)A.INST2.GR6 (The list included in the third paragraph of Section 6-02.3(9)A is supplemented with the following)
Must use once preceding any of the following:

6-02.3(9)A.OPT6.GB6 (PCPS Conc. SIP Panels)
(September 8, 2020)
Use in projects with precast prestressed concrete stay-in-place panels. Include with **6-02.2.OPT61.GB6, 6-02.3(9)E.OPT6.GB6, 6-02.3(9)F.OPT1.GB6, 6-02.3(9)G.OPT6.GB6 and 6-02.3(9)I.OPT6.GB6.**

6-02.3(9)E.GR6 Finishing

6-02.3(9)E.INST1.GR6 (Section 6-02.3(9)E is supplemented with the following)
Must use once preceding any of the following:

6-02.3(9)E.OPT6.GB6 (PCPS Conc. SIP Panels)
(September 8, 2020)

Use in projects with precast prestressed concrete stay-in-place panels. Include with **6-02.2.OPT61.GB6, 6-02.3(9)A.OPT6.GB6, 6-02.3(9)F.OPT1.GB6, 6-02.3(9)G.OPT6.GB6 and 6-02.3(9)I.OPT6.GB6.**

6-02.3(9)F.GR6 Tolerances

6-02.3(9)F.INST1.GR6 (Section 6-02.3(9)F is supplemented with the following)
Must use once preceding any of the following:

6-02.3(9)F.OPT1.GB6 (PCPS Conc. SIP Panels)
(September 8, 2020)
Use in projects with precast prestressed concrete stay-in-place panels. Include with **6-02.2.OPT61.GB6, 6-02.3(9)A.OPT6.GB6, 6-02.3(9)E.OPT6.GB6, 6-02.3(9)G.OPT6.GB6 and 6-02.3(9)I.OPT6.GB6.**

6-02.3(9)G.GR6 Handling and Storage

6-02.3(9)G.INST1.GR6 (Section 6-02.3(9)G is supplemented with the following)
Must use once preceding any of the following:

6-02.3(9)G.OPT6.GB6 (PCPS Conc. SIP Panels)
(September 8, 2020)
Use in projects with precast prestressed concrete stay-in-place panels. Include with **6-02.2.OPT61.GB6, 6-02.3(9)A.OPT6.GB6, 6-02.3(9)E.OPT6.GB6, 6-02.3(9)F.OPT1.GB6 and 6-02.3(9)I.OPT6.GB6.**

6-02.3(9)I.GR6 Erection

6-02.3(9)I.INST1.GR6 (Section 6-02.3(9)I is supplemented with the following)
Must use once preceding any of the following:

6-02.3(9)I.OPT6.GB6 (PCPS Conc. SIP Panels)
(September 8, 2020)
Use in projects with precast prestressed concrete stay-in-place panels. Include with **6-02.2.OPT61.GB6, 6-02.3(9)A.OPT6.GB6, 6-02.3(9)E.OPT6.GB6, 6-02.3(9)F.OPT1.GB6 and 6-02.3(9)G.OPT6.GB6.**

6-02.3(10).GR6 Bridge Decks and Bridge Approach Slabs

6-02.3(10)D.GR6 Concrete Placement, Finishing, and Texturing

6-02.3(10)D.INST1.GR6 (Section 6-02.3(10)D is supplemented with

(August 3, 2015)
Use in projects requiring plugging of bridge drains. Include with ***6-02.5.OPT53.FB6*** if the work is included in the cost of the membrane waterproofing or modified concrete overlay. Include with ***6-02.4.OPT27.GB6*** and ***6-02.5.OPT52.GB6*** if the unit contract bid item "Plugging Existing Bridge Drain" is used to pay for the work.

6-02.3(10)D.OPT12.GB6 (Core Drilled Bridge Deck Drain)
(April 6, 2015)
Use in projects with core drilled bridge deck drains. Include with **6-02.2.OPT58.GB6, and either 6-02.4.OPT32.GB6 and 6-02.5.OPT58.GB6, or 6-02.5.OPT59.FB6.**

6-02.3(10)F.GR6 Bridge Approach Slab Orientation and Anchors

6-02.3(10)F.INST1.GR6 (Section 6-02.3(10)F is supplemented with the following)
Must use once preceding any of the following:

6-02.3(10)F.OPT2.GB6 (Construct pavement end of approach slabs parallel to pavement seat)
(August 4, 2008)
Use in projects when the pavement ends of all approach slabs are constructed parallel to the pavement seat.

6-02.3(10)F.OPT3.FB6 (Construct pavement end of approach slabs both normal to the roadway centerline and parallel to pavement seat)
(August 4, 2008)
Use in projects when the pavement ends of the approach slabs are constructed both normal to the roadway centerline and parallel to the pavement seat.
(2 fill-ins)

6-02.3(13).GR6 Expansion Joints

6-02.3(13).INST1.GR6 (Section 6-02.3(13) is supplemented with the following)
Must use once preceding any of the following:

6-02.3(13).OPT7.GB6 Expansion Joint Modification

6-02.3(13).OPT7(B).GB6 (Expansion Joint Demolition Plan)
(April 6, 2015)
Use in projects where removal of portions of the existing bridge expansion joint assembly, and/or

and the pertinent modified concrete overlay GSPs.

6-02.3(13)C.GR6 Modular Expansion Joint System

6-02.3(13)C.INST1.GR6 (Section 6-02.3(13)C is supplemented with the following)
Must use once preceding any of the following:

6-02.3(13)C.OPT1.FB6 (Acceptable Manufacturers)
(September 8, 2020)
Include in projects requiring a modular expansion joint system. The fill-in specifies the percentage of the amplified vertical load range to be used for the horizontal load range for the fatigue design. The fill-in value shall be 20-percent except for installations at locations subject to significant braking and acceleration forces or subject to particularly large movement ranges where the fill-in value shall be 50-percent. Coordination with the Bridge and Structures Office Bridge Bearing and Expansion Joint Specialist is required.
Include with **6-02.4.OPT3.FB6** and **6-03.3(30).FB6**.
(1-fill-in)

6-02.3(14).GR6 Finishing Concrete Surfaces

6-02.3(14)C.GR6 Pigmented Sealer for Concrete Surfaces

6-02.3(14)C.INST1.GR6 (Section 6-02.3(14)C is supplemented with the following)
Must use once preceding any of the following:

6-02.3(14)C.OPT1.GB6 (Washington Gray Pigmented Sealer)
(April 6, 2009)
Use in projects requiring application of pigmented sealer to concrete surfaces, with Washington Gray being the sole color.

6-02.3(14)C.OPT2.GB6 (Mt. St. Helens Gray Pigmented Sealer)
(April 6, 2009)
Use in projects requiring application of pigmented sealer to concrete surfaces, with Mt. St. Helens Gray being the sole color.

6-02.3(14)C.OPT3.GB6 (Mt. Baker Gray Pigmented Sealer)
(April 6, 2009)
Use in projects requiring application of pigmented sealer to concrete surfaces, with Mt. Baker Gray being the sole color.

6-02.3(14)C.OPT4.GB6 (Cascade Green Pigmented Sealer)

(April 6, 2009)
Use in projects requiring application of pigmented sealer to concrete surfaces, with Cascade Green being the sole color.

6-02.3(14)C.OPT5.FB6 (Multiple Color Pigmented Sealer)
(April 6, 2009)
Use in projects requiring application of pigmented sealer to concrete surfaces, with two or more colors specified. Each fill-in pair is to be used to specify the structural features receiving a specific color of pigmented sealer.
(2 fill-ins)

6-02.3(17).GR6 Falsework and Formwork

6-02.3(17)C.GR6 Falsework and Formwork at Special Locations

6-02.3(17)C.INST1.GR6 (Section 6-02.3(17)C is supplemented with the following)
Must use once preceding any of the following:

6-02.3(17)C.OPT1.FB6 (Falsework Adjacent to or over Railroad Tracks)
(October 3, 2022)
Use in bridge projects requiring falsework adjacent to or over railroad tracks.
(1 fill-in)
Contact the Railroad Liaison Engineer (360) 705-7271 for the fill in information.

6-02.3(17)K.GR6 Concrete Forms on Steel Spans

6-02.3(17)K.INST1.GR6 (The first paragraph of Section 6-02.3(17)K is revised to read as follows)
Must use once preceding any of the following:

6-02.3(17)K.OPT1.GB6 (Stay-in-place Metal forms for Steel Box Girders)
(August 3, 2015)
Use in projects with steel box girder bridges when stay-in-place metal forms are allowed by the Bridge and Structures Office Steel Specialist. Include with ***6-02.4.OPT1.FB6, 6-02.5.OPT26.FB6, 6-03.3(28)B.OPT1.GB6, 6-03.3(30).OPT1.FB6, 6-03.3(39).OPT1.GB6,*** and ***6-03.4.OPT1.FB6***.

6-02.3(24).GR6 Reinforcement

6-02.3(24)C.GR6 Placing and Fastening

6-02.3(24)C.INST1.GR6 (Section 6-02.3(24)C is supplemented with the following)

Must use once preceding any of the following:

6-02.3(24)C.OPT1.GB6 (Drilling Holes for, and Setting, Steel Reinforcing Bar Dowels)
(September 8, 2020)
Use in projects where holes are drilled into existing concrete and steel reinforcing bar dowels are set with epoxy resin. Include with ***6-02.2.OPT2.GB6***. Include the above with ***2-02.1.OPT3.GR2, 2-02.3(2).OPT12.GR2,*** and ***2-02.5.OPT7.GR2*** when extending a conc. box culvert.

6-02.3(25).GR6 Prestressed Concrete Girders

6-02.3(25)L.GR6 Handling and Storage

6-02.3(25)L2.GR6 Girder Lateral Stability and Stress Analysis

6-02.3(25)L2.INST1.GR6 (The table in item number 4 of the first paragraph is revised to read)
Must use once preceding any of the following.

6-02.3(25)L2.OPT1.2026.GR6 (Prestressed Concrete Girder Stresses)
(January 6, 2025)
Use in projects with prestressed concrete girders.

6-02.3(26).GR6 Cast-in-Place Prestressed Concrete

6-02.3(26).INST1.GR6 (The third paragraph of Section 6-02.3(26) is revised to
read as follows)
Must use once preceding any of the following:

6-02.3(26).OPT1.GB6 (Cast-in-Place Prestressed Concrete)
(January 4, 2010)
Use in projects with segmental post-tensioned structures. Check with the Region Construction Engineer to see if testing equipment is available.

6-02.4.GR6 Measurement

6-02.4.INST1.GR6 (Section 6-02.4 is supplemented with the following)
Must use once preceding any of the following:

6-02.4.OPT1.FB6 (Summary of Quantities for Superstructure and Bridge Deck)
(September 8, 2020)
Use in bridge construction projects with lump sum items for superstructure or bridge deck. The first and third fill-in specify the appropriate bid item name (“Superstructure -

_____" or "Bridge Deck - _____"). The second fill-in itemizes the approximate quantities included. Include with ***6-02.5.OPT26.FB6*** when the "Bridge Deck - _____" bid item is used.
(3 fill-ins)

6-02.4.OPT3.FB6 (Modular Expansion Joint System)
(September 8, 2020)
Include in projects requiring a modular expansion joint system. The fill-in in is to itemize the quantities of work and materials included in the lump sum item. Coordination with the Bridge and Structures Office Bearing and Expansion Joint Specialist is required. Include with **6-02.3(13)C.OPT1.FB6 and *6-03.3(30).OPT1.FB6*.**
(1 fill-in)

6-02.4.OPT8.FB6 (Expansion Joint Modification)
(September 8, 2020)
Use in projects with lump sum item for expansion joint modification. The fill-in specifies the approximate quantities included. Include with **6-02.5.OPT33.GB6** and all applicable expansion joint modification GSPs supplementing Sections 6-02.2 and 6-02.3(13).
(1 fill-in)

6-02.4.OPT24.GB6 (Epoxy Crack Sealing)
(August 6, 2012)
Use in projects which require sealing cracks in existing concrete with injected epoxy resin. Include with ***6-02.2.OPT4.GB6, 6-02.3.OPT1.GB6,*** and ***6-02.5.OPT49.GB6***.

6-02.4.OPT26.GB6 (Modifying Bridge Drain)
(June 26, 2000)
Use in projects where modifying bridge drains is a stand-alone bid item. Include with ***6-02.2.OPT48.GB6, 6-02.3(10)D.OPT3.GB6,*** and ***6-02.5.OPT51.GB6*** with modified concrete overlay projects. Include the above with ***6-02.3(10)D.OPT4.GB6*** with membrane waterproofing and ACP overlay projects.

6-02.4.OPT27.GB6 (Plugging Existing Bridge Drain)
(June 26, 2000)
Use in projects where plugging existing bridge drains is a stand-alone bid item. Include with ***6-02.3(10)D.OPT5.GB6*** and ***6-02.5.OPT52.GB6***.

6-02.4.OPT32.GB6 (Core Drilled Bridge Deck Drain)
(April 6, 2015)
Use in projects where core drilled bridge deck drain is a stand-alone bid item. Include with 6-**02.2.OPT58.GB6, 6-02.3(10)D.OPT12.GB6, and 6-02.5.OPT58.GB6.**

6-02.4.OPT43.GB6 (Longitudinal Seismic Restrainer)
(April 6, 2015)
Use in projects where longitudinal seismic restrainer is a stand-alone bid item. Include with **6-02.2.OPT60(B).GB6, 6-02.2.OPT60(C).GB6, 6-02.2.OPT60(D).GB6, 6-02.3.OPT8(L).GB6, 6-02.5.OPT71.GB6** and all other applicable seismic retrofit GSPs supplementing Sections 6-02.2 and 6-02.3.

6-02.4.OPT44.FB6 (Seismic Retrofit)
(September 8, 2020)
Use in projects with a lump sum item for seismic retrofit. The fill-in specifies the approximate quantities included. Include with ***6-02.5.OPT72.GB6*** *and all other applicable seismic retrofit GSPs supplementing Sections 6-02.2 and 6-02.3*.
(1 fill-in)

6-02.4.OPT45.FB6 (Column Jacketing)
(September 8, 2020)
Use in projects with a lump sum item for column jacketing. The fill-in specifies the approximate quantities included. Include with ***6-02.2.OPT60(F).GB6, 6-02.3.OPT8(C).GB6, 6-02.3.OPT8(D).GB6, 6-02.3.OPT8(E).GB6, 6-02.3.OPT8(M).GB6, 6-02.5.OPT73.GB6,*** *and* ***6-03.3(30).OPT1.FB6***. Include with ***6-02.3.OPT8(F).FB6*** when the pre-fabrication field measuring requirements for specific existing bridge columns are waived.
(1 fill-in)

6-02.5.GR6 Payment

6-02.5.INST3.GR6 (The fifth and sixth bid items under Section 6-02.5 are supplemented with the following)
Must use once preceding any of the following:

6-02.5.OPT20.GB6 (Epoxy-coated St. Reinf. Bar for Bridge)
(April 6, 2015)
Use in projects with small amounts of epoxy-coated steel reinforcing bar in bridge substructure which is included in the quantity for “St. Reinf. Bar for Bridge” in lieu of a separate stand-alone bid item.

6-02.5.INST4.GR6 (Section 6-02.5 is supplemented with the following)
Must use once preceding any of the following:

6-02.5.OPT26.FB6 (Bridge Deck)
(August 2, 2010)
Use in steel bridge construction projects with lump sum items for bridge deck. The fill-in specifies work items included in the bid item. Include with ***6-02.4.OPT1.FB6***.
(1 fill-in)

6-02.5.OPT33.GB6 (Expansion Joint Modification)
(April 6, 2015)
Use in projects where expansion joint modification is a lump sum item. Include with **6-02.4.OPT8.FB6** and all applicable expansion joint modification GSPs supplementing Sections 6-02.2 and 6-02.3(13).

6-02.5.OPT49.GB6 (Epoxy Crack Sealing)
(August 1, 2011)
Use in projects which require sealing cracks in existing concrete with injected epoxy resin. Include with ***6-02.2.OPT4.GB6,*** ***6-02.3.OPT1.GB6,*** and ***6-02.4.OPT24.GB6***.

6-02.5.OPT51.GB6 (Modify Bridge Drain)
(June 26, 2000)
Use in projects where modifying bridge drains is a stand-alone bid item. Include with ***6-02.2.OPT48.GB6, 6-02.3(10)D.OPT3.GB6,*** and ***6-02.4.OPT26.GB6*** with modified concrete overlay projects. Include the above with ***6-02.3(10)D.OPT4.GB6*** with waterproof membrane and HMA overlay projects.

6-02.5.OPT52.GB6 (Plugging Existing Bridge Drain)
(June 26, 2000)
Use in projects where plugging existing bridge drains is a stand-alone bid item. Include with ***6-02.3(10)D.OPT5.GB6*** and ***6-02.4.OPT27.GB6***.

6-02.5.OPT53.FB6 (Modifying or Plugging Existing Bridge Drain)
(June 26, 2000)
Use in projects where payment for modifying or plugging existing bridge drains is included under either “Waterproof Membrane” or “Finishing and Curing Modified Conc. Overlay”. The first fill-in specifies whether the work is modifying or plugging existing bridge drains. The second fill-in specifies appropriate pay item for the work. Include with ***6-02.2.OPT48.GB6,*** and ***6-02.3(10)D.OPT3.GB6*** for modifying bridge drains with modified concrete overlay projects. Include the above with ***6-02.3(10)D.OPT4.GB6*** for modifying bridge drains with waterproof membrane and HMA overlay projects. Include with ***6-02.3(10)D.OPT5.GB6*** for plugging existing bridge drains.
(2 fill-ins)

6-02.5.OPT58.GB6 (Core Drilled Bridge Deck Drain)
(April 6, 2015)
Use in projects where core drilled bridge deck drain is a stand-alone bid item. Include with **6-02.2.OPT58.GB6, 6-02.3(10)D.OPT12.GB6, and 6-02.4.OPT32.GB6.**

6-02.5.OPT59.FB6 (Core Drilled Bridge Deck Drain)
(April 6, 2015)

Use in projects where core drilled bridge deck drain is included in a separate bid item. The fill-in specifies the bid item including this work. Include with ***6-02.2.OPT58.GB6*** *and* ***6-02.3(10)D.OPT12.GB6***.
(1 fill-in)

6-02.5.OPT71.GB6 (Longitudinal Seismic Restrainer)
(April 6, 2015)
Use in projects where longitudinal seismic restrainer is a stand-alone bid item. Include with **6-02.2.OPT60(B).GB6, 6-02.2.OPT60(C).GB6, 6-02.2.OPT60(D).GB6, 6-02.3.OPT8(L).GB6, 6-02.4.OPT43.GB6** and all applicable seismic retrofit GSPs supplementing Sections 6-02.2 and 6-02.3.

6-02.5.OPT72.GB6 (Seismic Retrofit)
(April 6, 2015)
Use in projects with seismic retrofit of bridges. Include with **6-02.4.OPT44.FB6** and all applicable seismic retrofit GSPs supplementing Sections 6-02.2 and 6-02.3.

6-02.5.OPT73.GB6 (Column Jacketing)
(April 6, 2015)
Use in projects with column jacketing of bridges. Include with **6-02.2.OPT60(F).GB6, 6-02.3.OPT8(C).GB6, 6-02.3.OPT8(D).GB6, 6-02.3.OPT8(E).GB6, 6-02.3.OPT8(M).GB6, 6-02.4.OPT45.FB6, and 6-03.3(30).OPT1.FB6. Include with 6-02.3.OPT8(F).FB6** when the pre-fabrication field measuring requirements for specific existing bridge columns are waived.

6-02.5.OPT91.FB6 (Bridge and Structures Minor Items)
(June 26, 2000)
Use in projects with bridges and other structures when there are minor items that are incidental to a lump sum or a unit price bid item. The first fill-in specifies the minor items. The second fill-in specifies the appropriate pay item(s) for the minor items.
(2 fill-ins)

6-02.5.OPT92.FB6 (Bridge Supported Utilities)
(June 26, 2000)
Use in projects requiring installation of bridge supported utilities. The first fill-in specifies the type of utility. The second fill-in specifies the bridge(s). The third fill-in specifies the work performed by the Contractor (furnishing materials, installing materials, coordination with utility, etc.), excluding furnishing and installing inserts. The fourth fill-in specifies the pay item. Include with ***6-02.3.OPT2(B).GB6***, with appropriate bridge supported utility material GSP's, if all materials and work are supplied and performed by the Contractor. Include with ***6-02.3.OPT2(C).GB6*** and ***6-02.5.OPT93.GB6*** if a utility

company is supplying and performing a portion of the utility materials and work. Include with ***6-02.2.OPT46(A).GB6, 6-02.3.OPT2(A).GB6, 6-02.4.OPT1.FB6,*** and ***6-02.5.OPT26.FB6*** when the supports include concrete inserts.
(4 fill-ins)

6-02.5.OPT93.GB6 (Bridge Supported Utilities)
(June 26, 2000)
Use in projects requiring installation of bridge supported utilities where a utility company is supplying and performing a portion of the utility materials and work. Include with ***6-02.3.OPT2(C).GB6*** and ***6-02.5.OPT92.FB6***, and appropriate bridge supported utility material GSP's. Include with ***6-02.2.OPT46(A).GB6, 6-02.3.OPT2(A).GB6, 6-02.4.OPT1.FB6,*** and ***6-02.5.OPT26.FB6*** when the supports include concrete inserts.

6-03.GR6 Steel Structures

6-03.3.GR6 Construction Requirements

6-03.3(7).GR6 Shop Plans

6-03.3(7)A.GR6 Erection Methods

6-03.3(7)A.INST1.GR6 (The list in the second paragraph of Section 6-03.3(7)A is supplemented with the following)
Must use once preceding any of the following:

6-03.3(7)A.OPT1.GB6 (Erection by Girder Launching)
(April 6, 2015)
Use in projects where girder launching may be used as an erection method.

6-03.3(7)A.OPT2.GB6 (Hand-held Drilling and Reaming)
(April 6, 2015)
Use in projects where drilling and reaming operations with hand-held devices is permissible. Include with ***6-03.3(27)B.OPT1.FB6***.
(1 fill-in)

6-03.3(25).GR6 Welding and Repair Welding

6-03.3(25).INST1.GR6 (Section 6-03.3(25) is supplemented with the following)
Must use once preceding any of the following:

6-03.3(25).OPT2.GB6 (Narrow Gap Improved-Electroslag Welding (NGI-ESW) Procedure)
(April 6, 2015)
Use in projects with steel plate girder bridges and box girder bridges primarily with Grades 50 and 50W steel. Accompanying details are required in the Plans for

6-03.3(30).INST1.GR6 (Section 6-03.3(30) is supplemented with the following)
Must use once preceding any of the following:

6-03.3(30).OPT1.FB6 (Color of Finish Coat)
(August 3, 2009)
Use in projects with new steel bridges and steel members to cover paint color requirements by specifying the SAE AMS Standard 595 Color Number, or the color name if no number. Include with ***6-03.3(28)B.OPT1.GB6, 6-03.3(39).OPT1.GB6, 6-03.4.OPT1.FB6, and 6-03.5.OPT1.GB6***.

Also include in projects with new minor steel items such as steel expansion joints (***6-02.3(13).OPT3.FB6, 6-02.4.OPT3.FB6, 6-02.5.OPT28.GB6, and 6-02.2.OPT22.GB6***) and bearings (***6-02.3(19)B.OPT1.GB6***).
(1 fill-in)

6-03.3(30).OPT6.FB6 (Painting Galvanized Seismic Retrofit Components)
(April 6, 2015)
Use in seismic retrofit projects where galvanized steel components are attached to painted members of existing steel bridges to cover paint color requirements. The first fill-in specifies the galvanized components to be painted. The second fill-in specifies the SAE AMS Standard 595 Color Number, or the color name if no number.
(2 fill-ins)

6-03.3(38).GR6 Placing Superstructure

6-03.3(38).INST1.GR6 (Section 6-03.3(38) is supplemented with the following)
Must use once preceding any of the following:

6-03.3(38).OPT1.GB6 (Concrete Protection)
(August 3, 2015)
Use within projects with bridges having weathering steel superstructure members which remain unpainted at completion of construction, and which are above concrete surfaces which require protection from staining while the steel members develop their weathered protective surface. Include with ***6-03.5.OPT7.FB6***.

6-03.3(39).GR6 Swinging the Span

6-03.3(39).INST1.GR6 (Section 6-03.3(39) is supplemented with the following)
Must use once preceding any of the following:

6-03.3(39).OPT1.GB6 (Girder Camber Field Measurements)
(June 26, 2000)

Use in projects with new steel bridges. Include with **6-03.3(28)B.OPT1.GB6, 6-03.3(30).OPT1.FB6, 6-03.4.OPT1.FB6, and 6-03.5.OPT1.GB6.**

6-03.4.GR6 Measurement

6-03.4.INST1.GR6 (Section 6-03.4 is supplemented with the following)
Must use once preceding any of the following:

6-03.4.OPT1.FB6 (Structural Low Alloy Quantities)
(August 6, 2007)
Use in projects with new steel bridges. Include with **6-03.3(28)B.OPT1.GB6, 6-03.3(30).OPT1.FB6,** and **6-03.3(39).OPT1.GB6.** Include with **6-03.5.OPT1.GB6** when the steel girder includes a pipe railing.
(2 fill-ins)

6-03.5.GR6 Payment

6-03.5.INST1.GR6 (The second bid item under Section 6-03.5 is supplemented with the following)
Must use once preceding any of the following:

6-03.5.OPT1.GB6 (Payment for Steel Girder Railing)
(August 6, 2007)
Use in projects with new steel bridges when the steel girder includes a pipe railing. Include with **6-03.3(28)B.OPT1.GB6, 6-03.3(30).OPT1.FB6, 6-03.3(39).OPT1.GB6, and 6-03.4.OPT1.FB6.**

6-03.5.INST2.GR6 (Section 6-03.5 is supplemented with the following)
Must use once preceding any of the following:

6-03.5.OPT7.FB6 (Payment for Concrete Protection)
(June 26, 2000)
Use in projects with bridges having weathering steel members which remain unpainted at the completion of construction, and which are above concrete surfaces which require protection from staining while the steel members develop their weathered protective surface. Include with ***6-03.3(38).OPT1.GB6.***
(1 fill-in)

6-04.GR6 Timber Structures

6-04.3.GR6 Construction Requirements

6-04.3(1).GR6 Storing and Handling Material

6-04.3(1).INST1.GR6 (Section 6-04.3(1) is supplemented with the following)
Must use once preceding any of the following:

6-04.3(1).OPT1.GB6 (Fire Prevention)

(March 6, 2000)
Use in all timber bridge construction and timber deck replacement projects. Include with ***6-04.5.OPT1.FB6***.

6-04.3(1).OPT2.GB6 (Top Flange Treatment)
(January 2, 2018)
Include in timber redecking projects. Include with ***6-04.3(1).OPT1.GB6***, ***6-04.5.OPT1.FB6***, ***and 6-04.5.OPT2.FB6***.

6-04.5.GR6 Payment

6-04.5.INST1.GR6 (Section 6-04.5 is supplemented with the following)
Must use once preceding any of the following:

6-04.5.OPT1.FB6 (Fire Protection)
(March 6, 2000)
Use in all timber bridge construction and timber deck replacement projects. Include with ***6-04.3(1).OPT1.GB6***.
(1 fill-in)

6-04.5.OPT2.FB6 (Top Flange Treatment)
(March 6, 2000)
Use in timber deck replacement projects. Include with ***6-04.3(1).OPT1.GB6***, ***6-04.3(1).OPT2.GB6***, ***and 6-04.5.OPT1.FB6***.
(1 fill-in)

6-05.GR6 Piling

6-05.2.GR6 Materials

6-05.2.INST1.GR6 (Section 6-05.2 is supplemented with the following)
Must use once preceding any of the following:

6-05.2.OPT1.GB6 Micropiles
(April 6, 2015)
Use in projects where micropiles are required. Include with **6-05.3.OPT1.FB6, 6-05.4.OPT6.GB6, and 6-05.5.OPT6.GB6.**

6-05.3.GR6 Construction Requirements

6-05.3.INST1.GR6 (Section 6-05.3 is supplemented with the following)
Must use once preceding any of the following:

6-05.3.OPT1.FB6 Micropiles
(October 3, 2022)
Use in projects where micropiles are required. The first fill-in specifies the top elevation of the micropile bond zone. The second fill-in specifies the location(s) of micropile verification tests. The third fill in is the 1.00 FDL deflection limit for the verification load test. The fourth fill in is the 1.00 FDL deflection limit for the proof load test. Include

with ***6-05.2.OPT1.FB6, 6-05.4.OPT6.GB6, and 6-05.5.OPT6.GB6***.
(Four fill-ins)

6-05.3(5).GR6 Manufacture of Steel Piles

6-05.3(5).INST1.GR6 (Section 6-05.3(5) is supplemented with the following)
Must use once preceding any of the following:

6-05.3(5).OPT1.GB6 (Furnishing St. Piling)
(September 8, 2020)
Use in projects with steel piling where the piling consists of hollow steel pipe that may or may not be filled with concrete and steel reinforcing bars for a portion of its length. Include with ***6-05.3(6).OPT1.GB6***

6-05.3(6).GR6 Splicing Steel Casings and Steel Piles

6-05.3(6).INST1.GR6 (Section 6-05.3(6) is supplemented with the following)
Must use once preceding any of the following:

6-05.3(6).OPT1.GB6 (Furnishing St. Piling)
(September 8, 2020)
Use in projects with steel piling where the piling consists of hollow steel pipe that may or may not be filled with concrete and steel reinforcing bars for a portion of its length. Include with ***6-05.3(5).OPT1.GB6***.

6-05.3(10).GR6 Test Piles

6-05.3(10).INST1.GR6 (Section 6-05.3(10) is supplemented with the following)
Must use once preceding any of the following:

6-05.3(10).OPT1.FB6 (Furnishing and Driving Test Piles)
(March 6, 2000)
Include in projects having test piles, as recommended by the State Geotechnical Office. The first, third, and fourth fill-ins specify the pile type (cast-in-place conc., steel, timber, etc.). The second fill-in specifies the general location (bridge and pier).
(4 fill-ins)

6-05.3(11).GR6 Driving Piles

6-05.3(11)D.GR6 Achieving Minimum Tip Elevation and Bearing

6-05.3(11)D.INST1.GR6 (Section 6-05.3(11)D is supplemented with the following)
Must use once preceding any of the following:

6-05.3(11)D.OPT2.GB6 (Vibration From Pile Driving)
(August 3, 2015)
Include in projects where minimizing vibration from driving piles is critical, as recommended by the State Geotechnical Office.

6-05.3(11)D.OPT3.FB6 (Preboring Piles)
(August 3, 2015)
Include in projects where preboring of piles is required to prevent downdrag from settlement, as recommended by the State Geotechnical Office. The first fill-in specifies the pile type (cast-in-place conc., steel, timber, etc.). The second fill-in specifies the general location (bridge and pier). The third fill-in specifies the bottom elevation of the preboring. Include with ***6-05.4.OPT1.FB6 and 6-05.5.OPT1.FB6.***
(3 fill-ins)

6-05.3(11)D.OPT4.FB6 (Preboring Piles)
(August 3, 2015)
Include in projects where preboring of piles is required, as recommended by the State Geotechnical Office. The first fill-in specifies the pile type (cast-in-place conc., steel, timber, etc.). The second fill-in specifies the general location (bridge and pier). The third fill-in specifies the bottom elevation of the preboring. Include with ***6-05.4.OPT1.FB6 and 6-05.5.OPT1.FB6.***
(3 fill-ins)

6-05.3(11)D.OPT9.FB6 (Overdriving)
(April 6, 2015)
Include in projects where overdriving of piles is anticipated in order to reach the minimum tip elevation, as recommended by the State Geotechnical Office. The first fill-in specifies the general location(s) (bridge and pier) of the anticipated pile overdriving. The second fill-in specifies the approximate magnitude of expected overdriving.
(2 fill-ins)

6-05.4.GR6 Measurement

6-05.4.INST1.GR6 (Section 6-05.4 is supplemented with the following)
Must use once preceding any of the following:

6-05.4.OPT1.FB6 (Preboring Piles)
(March 6, 2000)
Use in projects where preboring of piles is required, as recommended by the State Geotechnical Office. The fill-in

specifies the pile type (cast-in-place conc., steel, timber, etc.). Include with ***6-05.3(11)D.OPT3.FB6 or 6-05.3(11)D.OPT4.FB6, and 6-05.5.OPT1.FB6***.
(1 fill-in)

6-05.4.OPT6.GB6 Micropiles
(April 6, 2015)
Use in projects where micropiles are required. Include with **6-05.2.OPT1.FB6, 6-05.3.OPT1.FB6, and 6-05.5.OPT6.GB6.**

6-05.5.GR6 Payment

6-05.5.INST1.GR6 (Section 6-05.5 is supplemented with the following)
Must use once preceding any of the following:

6-05.5.OPT1.FB6 (Preboring Piles)
(March 6, 2000)
Use in projects where preboring of piles is required, as recommended by the State Geotechnical Office. Both fill-ins specify the pile type (cast-in-place conc., steel, timber, etc.). Include with ***6-05.3(11)D.OPT3.FB6 or 6-05.3(11)D.OPT4.FB6, and 6-05.4.OPT1.FB6.***
(2 fill-ins)

6-05.5.OPT6.GB6 Micropiles
(April 6, 2015)
Use in projects where micropiles are required. Include with **6-05.2.OPT1.FB6, 6-05.3.OPT1.FB6, and 6-05.4.OPT6.GB6.**

6-06.GR6 Bridge Railings

6-06.2.GR6 Materials

6-06.2.INST1.GR6 (Section 6-06.2 is supplemented with the following)
Must use once preceding any of the following:

6-06.2.OPT1.GB6 (Bridge Railing Type Chain Link Fence)
(November 20, 2023)
Use in projects with Bridge Railing Type Chain Link Fence. Include with ***6-06.3(2).OPT1.GB6***. Also include ***6-06.5.OPT1.FB6*** if the work is included as part of a separate bid item such as “Superstructure - ___”, or “Roadway Deck - ___”.

6-06.2.OPT2.GB6 (Bridge Railing Type Chain Link Fence)
(March 6, 2000)
Use in projects with Bridge Railing Type Chain Link Fence where the posts are set into blockouts with epoxy resin. Include with ***6-06.2.OPT1.GB6 and 6-06.3(2).OPT2.GB6***. Also include ***6-06.5.OPT1.FB6*** if the work is included as part of a separate bid item such as “Superstructure - ___”, or “Roadway Deck - ___”.

6-06.2.OPT7.GB6 (Tamper Proof Nuts for steel Bridge Railing Type BP)
(April 6, 2015)
Use in projects where steel Bridge Railing Type BP is used.

6-06.2.OPT8.FB6 (Bridge Railing Type Snow Fence and Bridge Railing Type Wire Fabric Fence)
(November 20, 2023)
Use in projects with Bridge Railing Type Snow Fence or Bridge Railing Type Wire Fabric Fence. The fill-in specifies the Federal Standard 595 Color Number, or the color name if no number.
Include with **6-06.3(2).OPT7.GB6.**
(1 fill-in)

6-06.3.GR6 Construction Requirements

6-06.3(2).GR6 Metal Railings

6-06.3(2).INST1.GR6 (Section 6-06.3(2) is supplemented with the following)
Must use once preceding any of the following:

6-06.3(2).OPT1.GB6 (Bridge Railing Type Chain Link Fence)
(November 20, 2023)
Use in projects with Bridge Railing Type Chain Link Fence where the posts are fastened into position with anchor bolts or resin bonded anchors. Include with ***6-06.2.OPT1.GB6***. Also include ***6-06.5.OPT1.FB6*** if the work is included as part of a separate bid item such as "Superstructure - ___", or "Roadway Deck - ___".

6-06.3(2).OPT2.GB6 (Bridge Railing Type Chain Link Fence)
(March 6, 2000)
Use in projects with Bridge Railing Type Chain Link Fence where the posts are set into blockouts with epoxy resin. Include with ***6-06.2.OPT1.GB6 and 6-06.2.OPT2.GB6***. Also include ***6-06.5.OPT1.FB6*** if the work is included as part of a separate bid item such as "Superstructure - ___", or "Roadway Deck - ___".

6-06.3(2).OPT7.GB6 (Bridge Railing Type Snow Fence and Bridge Railing Type Wire Fabric Fence)
(November 20, 2023)
Use in projects with Bridge Railing Type Snow Fence or Bridge Railing Type Wire Fabric Fence. Include with **6-06.2.OPT8.FB6.**

6-06.5.GR6 Payment

6-06.5.INST1.GR6 (Section 6-06.5 is supplemented with the following)

Must use once preceding any of the following:

6-06.5.OPT1.FB6 (Bridge Railing)
(March 6, 2000)
Use in projects with bridge railing where the work is included as part of a separate bid item such as "Superstructure - ___", or "Roadway Deck - ___". The first fill-in specifies the bridge railing type. The second fill-in specifies the bid item name.
(2 fill-ins)

6-07.GR6 Painting

6-07.1.GR6 Description

6-07.1.INST1.GR6 (Section 6-07.1 is supplemented with the following)
Must use once preceding any of the following:

6-07.1.OPT1.FB6 (Scope of Work)
(August 3, 2009)
Include in projects with cleaning and painting of existing steel bridge(s). Use to define limits of cleaning and painting by using the second fill-in to specify surfaces that are not to be painted (light fixtures, utilities, bridge attachments, etc.). Include with ***6-07.3(10)D.OPT1.FB6 and/or 6-07.3(10)E.OPT1.FB6*** as appropriate for the surface preparation requirements. Include with ***DESWORK2.FB1 and 6-07.3(10)I.OPT1.FB6***. Include with ***1-07.1(2).OPT3.FR1*** if the existing bridge(s) contain lead paint. Include with ***1-07.6.OPT4.GB1*** if the bridge(s) cross a navigable waterway.
(2 fill-ins)

6-07.1.OPT2.FB6 (Scope of Work)
(August 3, 2009)
Include in projects with cleaning and painting of existing timber bridge(s). Use to define limits of cleaning and painting by using the second fill-in to specify the surfaces to be painted (railing, rail posts, wheelguards, etc.). Include with ***1-07.1(2).OPT3.FR1*** if the existing bridge(s) contain lead paint. Project specific Special Provisions supplementing Section 6-07.3(13) may be required to specify specific primer and top coat paint requirements.
(2 fill-ins)

6-07.3.GR6 Construction Requirements

6-07.3(10).GR6 Painting Existing Steel Structures

6-07.3(10).INST1.GR6 (Section 6-07.3(10) is supplemented with the following)
Must use once preceding any of the following:

6-07.3(10).OPT1.FB6 (Utility Conduits)
(August 3, 2009)
Include only when utility conduits are attached to the existing bridge(s) being painted. Fill-in to read "shall or "shall not". Include with ***DESWORK2.FB1, 6-07.1.OPT1.FB6*** *and* ***6-07.3(10)I.OPT1.FB6***.
(1 fill-in)

6-07.3(10).OPT2.GB6 (Light Fixtures)
(August 3, 2009)
Include only when light fixtures are attached to existing bridge(s) being painted. Include with ***DESWORK2.FB1, 6-07.1.OPT1.FB6*** *and* ***6-07.3(10)I.OPT1.FB6***.

6-07.3(10).OPT4.GB6 (Cleaning Grid Deck)
(August 3, 2015)
Use with ***DESWORK2.FB1, 6-07.1.OPT1.FB6, 6-07.3(10)I.OPT1.FB6, and 6-07.3(10)N.OPT1.GB6*** if the bridge has a grid roadway deck or steel grid catwalks which require cleaning and painting.

6-07.3(10)A.GR6 Containment

6-07.3(10)A.INST1.GR6 (Section 6-07.3(10)A is supplemented with the following)
Must use once preceding any of the following:

6-07.3(10)A.OPT1.GB6 (Protection of Existing Structure)
(August 3, 2009)
Use only when the bridge has mechanical equipment to protect such as a draw bridge. Include with ***DESWORK2.FB1, 6-07.1.OPT1.FB6 and 6-07.3(10)I.OPT1.FB6***.

6-07.3(10)A.OPT2.FB6 (Containment System)
(September 7, 2021)
Use when a paint removal containment system must be removed from a bridge when winds at the site exceed a wind speed/gust threshold.
Fill-in #1 specifies the bridge(s) that have wind speed/gust thresholds.
Fill-in #2 specifies the wind speed/gust threshold.
(2 fill-ins)

6-07.3(10)D.GR6 Surface Preparation Prior to Overcoat Painting

6-07.3(10)D.INST1.GR6 (Section 6-07.3(10)D is supplemented with the following)
Must use once preceding any of the following:

6-07.3(10)D.OPT1.FB6 (Surfaces Requiring Overcoat Painting Surface Preparation)

(April 6, 2015)
Use in bridge painting projects with bridges and bridge members requiring surface preparation for overcoat painting. Include with ***DESWORK2.FB1, 1-07.6.OPT3(A).FB1, 6-07.1.OPT1.FB6 and 6-07.3(10)I.OPT1.FB6***. Include with ***6-07.3(10)E.OPT1.FB6*** if the bridge(s) also have bridge members requiring full paint removal. Include with ***1-07.1(2).OPT3.FR1*** if the existing bridge(s) contain lead paint. The first fill-in specifies the bridge(s) requiring overcoat painting surface preparation. The second fill-in specifies the bridge members requiring overcoat painting surface preparation.
(2 fill-ins)

6-07.3(10)E.GR6 Surface Preparation – Full Paint Removal

6-07.3(10)E.INST1.GR6 (Section 6-07.3(10)E is supplemented with the following)
Use once preceding any of the following:

6-07.3(10)E.OPT1.FB6 (Surfaces Requiring Full Paint Removal Surface)
Preparation)
(April 5, 2010)
Use in bridge painting projects with bridges and bridge members requiring surface preparation for full paint removal. Include with ***DESWORK2.FB1, 1-07.6.OPT3(A).FB1, 6-07.1.OPT1.FB6 and 6-07.3(10)I.OPT1.FB6***. Include with ***6-07.3(10)D.OPT1.FB6*** if the bridge(s) also have bridge members requiring overcoat painting. Include with ***1-07.1(2).OPT3.FR1*** if the existing bridge(s) contain lead paint. The first fill-in specifies the bridge(s) requiring full paint removal surface preparation. The second fill-in specifies the bridge members requiring full paint removal surface preparation.
(2 fill-ins)

6-07.3(10)I.GR6 Paint Color

6-07.3(10)I.INST1.GR6 (Section 6-07.3(10)I is supplemented with the following)
Must use once preceding any of the following:

6-07.3(10)I.OPT1.FB6 (Color of Top Coat)
(August 3, 2009)
Use in projects with existing steel bridges and bridge members to cover paint color requirements by specifying the SAE AMS

Standard 595 Color Number, or the color name if no number. Use with ***DESWORK2.FB1, 1-07.6.OPT3(A).FB1,*** and ***6-07.1.OPT1.FB6***. Include with ***6-07.3(10)D.OPT1.FB6 and/or 6-07.3(10)E.OPT1.FB6*** as appropriate for the surface preparation requirements. Include with ***1-07.1(2).OPT3.FR1*** if the existing bridge(s) contain lead paint.
(1 fill-in)

6-07.3(10)N.GR6 Field Coating Application Methods

6-07.3(10)N.INST1.GR6 (Section 6-07.3(10)N is supplemented with the following)
Must use once preceding any of the following:

6-07.3(10)N.OPT1.GB6 (Painting Grid Deck)
(August 3, 2009)
Use with ***DESWORK2.FB1, 6-07.1.OPT1.FB6, 6-07.3(10).OPT4.GB6 and 6-07.3(10)I.OPT1.FB6*** if the bridge has a grid roadway deck or steel grid catwalks which require painting.

6-07.3(11).GR6 Painting or Powder Coating of Galvanized Surfaces

6-07.3(11).INST1.GR6 (Section 6-07.3(11) is supplemented with the following)
Must use once preceding any of the following:

6-07.3(11).OPT1.FB6 (Coating Color)
(August 3, 2009)
Use in projects requiring coating of galvanized surfaces with either paint or powder coating. The fill-in specifies the SAE AMS Standard 595 color number, or the color name if no number.
(1 fill-in)

6-08.GR6 Bituminous Surfacing on Structure Decks

6-08.3.GR6 Construction Requirements

6-08.3.INST1.GR6 (Section 6-08.3 is supplemented with the following)
Must use once preceding the following:

6-08.3.OPT1.FB6 (Surfacing Removal and Paving Equipment Load and Spacing Restrictions)
(October 29, 2020)
Use in bridge deck paving projects where specific bridges are subject to surfacing removal and paving equipment load and spacing restrictions as shown and specified in the Plans. The fill-in specifies the Bridge Number(s) of the bridge(s) affected by these restrictions.

(1-fill-in)

6-08.3(2).GR6 Contractor Survey for Grade-Controlled Structure Decks

6-08.3(2).INST1.GR6 (Section 6-08.3(2) is supplemented with the following)
Must use once preceding any of the following:

6-08.3(2).OPT1.FB6 (Contractor Structure Survey Not Applicable)
(January 3, 2017)
Use in projects where the Contracting Agency performs the Structure survey for Grade Controlled Structure Decks, and the Contract Plans were adjusted for Final Grade Profile and Adjusted Removal Depth as needed. The fill-in specifies the Bridge number(s) where the Contracting Agency is performing the survey.
(1 fill-in)

6-08.3(5).GR6 Full Depth Removal of Bituminous Pavement from Bridge Decks

6-08.3(5).INST1.GR6 (Section 6-08.3(5) is supplemented with the following)
Must use once preceding any of the following:

6-08.3(5).OPT1.FB6 (Rotary milling/planing equipment prohibited)
(January 2, 2018)
Use in bridge deck paving projects where equipment used to perform full depth removal of existing surfacing from specific Grade Controlled bridges is restricted to exclude rotary milling/planing equipment. Bridges in this category are generally identified in the Bridge Condition Report (BCR) prepared for the project by the Bridge Asset Management unit of the Bridge and Structures Office and provided to the Region Design PE Offices as part of the site data at the beginning of the project design phase. The fill-in specifies the Bridge Number(s) of the bridges affected by these restrictions.
(1 fill-in)

6-08.3(5).OPT2.FB6 (Rotary milling/planing equipment restricted to upper layer of existing surfacing)
(January 2, 2018)
Use in bridge deck paving projects where equipment used to perform full depth removal of existing surfacing from specific Grade Controlled bridges is restricted to allow rotary milling/planing equipment for the upper layer 0.10-feet above the bridge deck. Existing surfacing thicknesses at these bridges shall be 0.20-feet minimum. The fill-in specifies the Bridge Number(s) of the bridges affected by these restrictions.
(1 fill-in)

6-10.GR6 Concrete Barrier

6-10.3.GR6 Construction Requirements

6-10.3(5).GR6 Temporary Barrier

6-10.3(5).INST1.GR6 (The first paragraph of Section 6-10.3(5) is revised to read)
Must use once preceding any of the following:

6-10.3(5).OPT1.GR6 (Type F Temporary Barrier)
(February 3, 2020)
Use in projects that have less than 1,000 linear feet of temporary barrier. The use of this GSP on projects with more than 1,000 linear feet of temporary barrier requires approval from HQ Construction.

Do not use with **6-10.3(5).OPT2.2025.GR6**.

6-10.5.GR6 Payment

6-10.5.INST1.GR6 (Section 6-10.5 is supplemented with the following)
Must use once preceding any of the following:

6-10.5.OPT1.GR6 (Temporary barrier delineators)
(August 1, 2016)
Use in projects that require temporary barrier to be placed adjacent to a travelled lane.

6-10.5.OPT2.FB6 (Bridge Concrete Barrier)
(March 6, 2000)
Use in projects with concrete barrier on bridges only where the barrier is included as part of a separate bid item such as “Superstructure - ___”, or “Roadway Deck - ___”. The first fill-in specifies the barrier type (traffic barrier, traffic-pedestrian barrier, pedestrian barrier, etc.). The second fill-in specifies the bid item name.
(2 fill-ins)

6-12.GR6 Noise Barrier Walls

6-12.2.GR6 Materials

6-12.2.INST1.GR6 (Section 6-12.2 is supplemented with the following)
Must use once preceding any of the following:

6-12.2.OPT1.GB6 (Precast Concrete Noise Barrier Walls)
(September 8, 2020)
Use in projects with noise barrier walls of precast concrete panels. Include with ***6-12.3(6).OPT1.FB6 and all other applicable noise barrier wall GSP’s***.

6-12.2.OPT2.FB6 (Masonry Noise Barrier Walls)
(September 8, 2020)
Use in projects with noise barrier walls of masonry block panels. The fill-in describes the surface texture and color requirements for the field, cap, accent, and other CMU blocks used for the masonry wall. Include with ***6-12.3(7).OPT1.GB6 and all other applicable noise barrier wall GSP's***.
(1 fill-in)

6-12.3.GR6 Construction Requirements

6-12.3(1).GR6 Submittals

6-12.3(1).INST1.GR6 (Section 6-12.3(1) is supplemented with the following)
Must use once preceding any of the following:

6-12.3(1).OPT1.GB6 (Noise Barrier Wall Existing Groundline Field Survey)
(August 3, 2015)
Use in noise barrier wall projects where the Contractor is required to perform and submit a field survey of the existing noise barrier wall alignment. Include with ***1-05.4.OPT1.GR1, 6-12.5.OPT1.GB6, and all other applicable noise barrier wall GSP's***.

6-12.3(6).GR6 Precast Concrete Panel Fabrication and Erection

6-12.3(6).INST1.GR6 (Section 6-12.3(6) is supplemented with the following)
Must use once preceding any of the following:

6-12.3(6).OPT1.FB6 (Precast Concrete Panel Surface Finish Requirements)
(April 5, 2004)
Use in projects with noise barrier walls of precast concrete panels. The fill-ins specify the type or name of the formed finish on the traffic side and on the residential side of the precast concrete panels. Include with ***6-12.2.OPT1.GB6 and all other applicable noise barrier wall GSP's***.
(2 fill-ins)

6-12.3(7).GR6 Masonry Wall Construction

6-12.3(7).INST1.GR6 (Section 6-12.3(7) is supplemented with the following)
Must use once preceding any of the following:

6-12.3(7).OPT1.GB6 (Masonry Noise Barrier Wall Construction Requirements)
(August 3, 2015)

Use in projects with noise barrier walls of masonry block panels. Include with ***6-12.2.OPT2.FB6 and all other applicable noise barrier wall GSP's.***

6-12.5.GR6 Payment

6-12.5.INST1.GR6 (Section 6-12.5 is supplemented with the following)
Must use once preceding any of the following:

6-12.5.OPT1.GB6 (Payment for Noise Barrier Wall Groundline Field Survey)
(April 5, 2004)
Use in noise barrier wall projects where the Contractor is required to perform and submit a field survey of the existing noise barrier wall alignment. Include with ***1-05.4.OPT1.GR1, 6-12.3(1).OPT1.GB6, and all other applicable noise barrier wall GSP's***.

6-13.GR6 Structural Earth Walls

6-13.2.GR6 Materials

6-13.2.INST1.GR6 (Section 6-13.2 is supplemented with the following)
Must use once preceding any of the following:

6-13.2.OPT1.GB6 (Welded Wire Faced Structural Earth Wall Materials)
(February 6, 2023)
Use in projects with structural earth walls where welded wire faced walls are an acceptable alternative. Include with ***6-13.3.OPT1.GB6 and 6-13.3(2).OPT1.FB6***.

6-13.2.OPT2.GB6 (Precast Concrete Panel Faced Structural Earth Wall Materials)
(February 6, 2023)
Use in projects with structural earth walls where precast concrete panel faced walls are an acceptable alternative. Include with ***6-13.3.OPT2.GB6, 6-13.3(2).OPT1.FB6, 6-13.3(4).OPT1.GB6***.

6-13.2.OPT2(A).GB6 (Lock + Load Retaining Wall System Wall Materials)
(August 3, 2015)
Use in projects with structural earth walls only when the following conditions apply:

1. Both precast concrete panel faced structural earth walls AND precast concrete block faced structural earth walls are included in the project as acceptable alternatives.
2. Lock + Load retaining wall system shall be constructed in areas where the wall will be constructed above the water table.

Include with ***6-13.2.OPT2.GB6, 6-13.3.OPT2.GB6, 6-13.3(2).OPT1.FB6, 6-13.3.OPT2(A).GB6, 6-***

13.3(4).OPT1.GB6, 6-13.3(4).OPT1(A).GB6, and 6-13.3(7).OPT1.GB6.

6-13.2.OPT3.GB6 (Concrete Block Faced Structural Earth Wall Materials)
(January 2, 2018)
Use in projects with structural earth walls where concrete block faced walls are an acceptable alternative. Include with ***6-13.3.OPT3.GB6, 6-13.3(2).OPT1.FB6, and 6-13.3(5).OPT2.GB6***.

6-13.3.GR6 Construction Requirements

6-13.3.INST1.GR6 (Section 6-13.3 is supplemented with the following)
Must use once preceding any of the following:

6-13.3.OPT1.GB6 (Welded Wire Faced Structural Earth Wall)
(April 4, 2011)
Use in projects with structural earth walls where welded wire faced walls are an acceptable alternative. Include with ***6-13.2.OPT1.GB6 and 6-13.3(2).OPT1.FB6***.

6-13.3.OPT2.GB6 (Precast Concrete Panel Faced Structural Earth Wall)
(January 10, 2022)
Use in projects with structural earth walls where precast concrete panel faced walls are an acceptable alternative. Include with ***6-13.2.OPT2.GB6, 6-13.3(2).OPT1.FB6, and 6-13.3(4).OPT1.GB6.***

6-13.3.OPT2(A).GB6 (Lock + Load Retaining Wall System Walls)
(August 3, 2015)
Use in projects with structural earth walls only when the following conditions apply:

1. Both precast concrete panel faced structural earth walls AND precast concrete block faced structural earth walls are included in the project as acceptable alternatives.
2. Lock + Load retaining wall system shall be constructed in areas where the wall will be constructed above the water table.

Include with ***6-13.2.OPT2.GB6, 6-13.2.OPT2(A).GB6, 6-13.3.OPT2.GB6, 6-13.3(2).OPT1.FB6, 6-13.3(4).OPT1.GB6, 6-13.3(4).OPT1(A).GB6, and 6-13.3(7).OPT1.GB6***.

6-13.3.OPT3.GB6 (Concrete Block Faced Structural Earth Wall)
(January 2, 2018)
Use in projects with structural earth walls where concrete block faced walls are an acceptable alternative. Include with ***6-13.2.OPT3.GB6, 6-13.3(2).OPT1.FB6, and 6-13.3(5).OPT2.GB6***.

6-13.3(2).GR6 **Submittals**

6-13.3(2).INST1.GR6 (Section 6-13.3(2) is supplemented with the following)
Must use once preceding any of the following:

6-13.3(2).OPT1.FB6 (Structural Earth Wall Geotechnical Design Parameters)
(January 3, 2011)
Use in projects with structural earth walls. The first fill-in identifies the wall by name or number, and the remaining fill-ins specify the values for various geotechnical design parameters as specified in the geotechnical report prepared for the project. The table may be repeated as necessary for additional walls with differing geotechnical design parameters.
(13 fill-ins)

6-13.3(4).GR6 **Precast Concrete Facing Panel and Concrete Block Fabrication**

6-13.3(4).INST1.GR6 (Section 6-13.3(4) is supplemented with the following)
Must use once preceding any of the following:

6-13.3(4).OPT1.GB6 (Specific Fabrication Requirements for Precast Concrete Panel Faced Structural Earth Walls)
(April 3, 2017)
Use in projects with structural earth walls where precast concrete panel faced walls are an acceptable alternative. Include with ***6-13.2.OPT2.GB6, 6-13.3.OPT2.GB6, 6-13.3(2).OPT1.FB6, and 6-13.3(5).OPT1.GB6***.

6-13.3(4).OPT1(A).GB6 (Lock + Load Retaining Wall System Walls)
(August 3, 2015)
Use in projects with structural earth walls only when the following conditions apply:

1. Both precast concrete panel faced structural earth walls AND precast concrete block faced structural earth walls are included in the project as acceptable alternatives.
2. Lock + Load retaining wall system shall be constructed in areas where the wall will be constructed above the water table.

Include with ***6-13.2.OPT2.GB6, 6-13.2.OPT2(A).GB6, 6-13.3.OPT2.GB6, 6-13.3.OPT2(A).GB6, 6-13.3(2).OPT1.FB6, 6-13.3(4).OPT1.GB6, and 6-13.3(7).OPT1.GB6***.

6-13.3(5).GR6 **Precast Concrete Facing Panel and Concrete** Block Erection

6-13.3(5).INST1.GR6 (Section 6-13.3(5) is supplemented with the following)
Must use once preceding any of the following:

6-13.3(5).OPT2.GB6 (Specific Erection Requirements for Precast Concrete Block Faced Structural Earth Walls)
(April 2, 2012)
Use in projects with structural earth walls where concrete block faced walls are an acceptable alternative. Include with ***6-13.2.OPT3.GB6 6-13.3.OPT3.GB6, and 6-13.3(2).OPT1.FB6***.

6-13.3(7).GR6 Backfill

6-13.3(7).INST1.GR6 (Section 6-13.3(7) is supplemented with the following)
Must use once preceding any of the following:

6-13.3(7).OPT1.GB6 (Specific Backfill Requirements for Precast Concrete Panel Faced Structural Earth Walls)
(August 3, 2015)
Use in projects with structural earth walls only when the following conditions apply:

1. Both precast concrete panel faced structural earth walls AND precast concrete block faced structural earth walls are included in the project as acceptable alternatives.
2. Lock + Load retaining wall system shall be constructed in areas where the wall will be constructed above the water table.

Include with ***6-13.2.OPT2.GB6, 6-13.2.OPT2(A).GB6, 6-13.3.OPT2.GB6, 6-13.3.OPT2(A).GB6, 6-13.3(2).OPT1.FB6, 6-13.3(4).OPT1.GB6, and 6-13.3(4).OPT1(A).GB6***

6-14.GR6 Geosynthetic Retaining Walls

6-14.2.GR6 Materials

6-14.2(9-33.2(2)).GR6 (Geosynthetic Properties For Retaining Walls and Reinforced Slopes
(Section 9-33.2(2) is supplemented with the following)
Must use once preceding any of the following:

6-14.2(9-33.2(2)).OPT1.FB6 (Geosynthetic Properties For Temporary Geosynthetic Retaining Walls)
(August 7, 2006)
Use in projects with temporary geosynthetic retaining walls. The first fill-in identifies the wall location. The second fill-in specifies the reinforcement layer vertical spacing. The third fill-in specifies the dimension from the

top of wall to the reinforcement layer. The fourth fill-in specifies the geosynthetic tensile strength.
(4 fill-ins)

6-15.GR6 Soil Nail Walls

6-15.2.GR6 Materials

6-15.2.INST1.GR6 (Section 6-15.2 is supplemented with the following)
Must use once preceding any of the following:

6-15.2.OPT1.GB6 (Permanent Soil Nail Materials and Components)
(August 3, 2015)
Use in projects with soil nail retaining walls. Include with ***6-15.3(8)A.OPT1.FB6***.

6-15.3.GR6 Construction Requirements

6-15.3(8).GR6 Soil Nail Testing And Acceptance

6-15.3(8)A.GR6 Verification Testing

6-15.3(8)A.INST1.GR6 (Section 6-15.3(8)A is supplemented with the following)
Must use once preceding any of the following:

6-15.3(8)A.OPT1.FB6 (Soil Nail Verification Test Locations)
(April 5, 2004)
Use in projects with soil nail retaining walls. The fill-ins specify the soil nail verification test locations and the number of successful tests required at each location. Include with ***6-15.2.OPT1.GB6***.
(3 fill-ins)

6-17.GR6 Permanent Ground Anchors

6-17.1.GR6 Description

6-17.1.INST1.GR6 (Section 6-17.1 is supplemented with the following)
Must use once preceding any of the following:

6-17.1.OPT1.GB6 (Rock Bolts and Rock Dowels)
(January 7, 2013)
Use in projects with rock bolts and/or rock dowels. Include with **6-17.2.OPT2.GB6, 6-17.3.OPT1.GB6, 6-17.3(8).OPT1.GB6, 6-17.4.OPT1.GB6 and 6-17.5.OPT1.GB6.**

6-17.2.GR6 Materials

6-17.2.INST1.GR6 (Section 6-17.2 is supplemented with the following)
Must use once preceding any of the following:

6-17.2.OPT1.GB6 (Permanent Ground Anchor Materials and Components)
(November 2, 2022)
Use in projects with walls using permanent ground anchors.

6-17.2.OPT2.GB6 (Rock Bolt and Rock Dowel Materials)
(January 7, 2013)
Use in projects with rock bolts and/or rock dowels. Include with **6-17.1.OPT1.GB6, 6-17.3.OPT1.GB6, 6-17.3(8).OPT1.GB6, 6-17.4.OPT1.GB6 and 6-17.5.OPT1.GB6.**

6-17.3.GR6 Construction Requirements

6-17.3.INST1.GR6 (Section 6-17.3 is supplemented with the following)
Must use once preceding any of the following:

6-17.3.OPT1.GB6 (Rock Bolt and Rock Dowel Construction Requirements)
(September 8, 2020)
Use in projects with rock bolts and/or rock dowels. Include with **6-17.1.OPT1.GB6, 6-17.2.OPT2.GB6, 6-17.3(8).OPT1.GB6, 6-17.4.OPT1.GB6 and 6-17.5.OPT1.GB6.**

6-17.3(8).GR6 Testing And Stressing

6-17.3(8).INST1.GR6 (Section 6-17.3(8) is supplemented with the following)
Must use once preceding any of the following:

6-17.3(8).OPT1.GB6 Rock Bolt and Rock Dowel Testing
(January 7, 2013)
Use in projects with rock bolts and/or rock dowels. Include with **6-17.1.OPT1.GB6, 6-17.2.OPT2.GB6, 6-17.3.OPT1.GB6, 6-17.4.OPT1.GB6 and 6-*17.5.OPT1.GB6.***

6-17.3(8)A.GR6 Verification Testing

6-17.3(8)A.INST1.GR6 (Section 6-17.3(8)A is supplemented with the following)
Must use once preceding any of the following:

6-17.3(8)A.OPT1.GB6 (August 3, 2015)
Use in projects with permanent ground anchors where the soil conditions require a verification testing program for the permanent ground anchors as recommended by the State Geotechnical Office. Include with ***6-17.3(8)B.OPT1.GB6 and 6-17.3(8)C.OPT1.GB6.***

6-17.3(8)B.GR6 **Performance Testing**

6-17.3(8)B.INST1.GR6 (The performance test schedule following the second paragraph of Section 6-17.3(8)B is revised to read)
Must use once preceding any of the following:

6-17.3(8)B.OPT1.GB6 (January 3, 2011)
Use in projects with permanent ground anchors where the soil conditions require a verification testing program for the permanent ground anchors, as recommended by the State Geotechnical Office. Include with ***6-17.3(8)A.OPT1.GB6 and 6-17.3(8)C.OPT1.GB6***.

6-17.3(8)C.GR6 **Proof Testing**

6-17.3(8)C.INST1.GR6 (The proof test schedule following the first paragraph of Section 6-17.3(8)C is revised to read)
Must use once preceding any of the following:

6-17.3(8)C.OPT1.GB6 (January 3, 2011)
Use in projects with permanent ground anchors where the soil conditions require a verification testing program for the permanent ground anchors, as recommended by the State Geotechnical Office. Include with ***6-17.3(8)A.OPT1.GB6 and 6-17.3(8)B.OPT1.GB6***.

6-17.4.GR6 **Measurement**

6-17.4.INST1.GR6 (Section 6-17.4 is supplemented with the following)
Must use once preceding any of the following:

6-17.4.OPT1.GB6 (Rock Bolts and Rock Dowels)
(January 4, 2010)
Use in projects with rock bolts and/or rock dowels. Include with **6-17.1.OPT1.GB6, 6-17.2.OPT2.GB6, 6-17.3.OPT1.GB6, 6-17.3(8).OPT1.GB6, and 6-17.5.OPT1.GB6.**

6-17.5.GR6 **Payment**

6-17.5.INST1.GR6 (Section 6-17.5 is supplemented with the following)
Must use once preceding any of the following:

6-17.5.OPT1.GB6 (Rock Bolts and Rock Dowels)
(January 4, 2010)
Use in projects with rock bolts and/or rock dowels. Include with **6-17.1.OPT1.GB6, 6-17.2.OPT2.GB6, 6-17.3.OPT1.GB6, 6-17.3(8).OPT1.GB6, and 6-17.4.OPT1.GB6.**

6-18.GR6 Shotcrete Facing

6-18.2.GR6 Materials

6-18.2.INST1.GR6 (Section 6-18.2 is supplemented with the following)
Must use once preceding any of the following:

6-18.2.OPT2.GB6 (Coloration for Shotcrete Facing Finishing Alternative C)
(August 3, 2015)
Use in projects with shotcrete facing where tinting of the finish coating of shotcrete is required.
Must also use with **6-18.SA1.2025.GR6**.

6-18.2.OPT3.GB6 (Fiber Reinforcement for Shotcrete Facing)
(August 3, 2015)
Use in projects with shotcrete facing where fiber reinforcement in the shotcrete is specified.
Must also use with **6-18.SA1.2025.GR6**.

6-19.GR6 Shafts

6-19.2.GR6 Materials

6-19.2(9-36.2(2)).GR6 Synthetic Slurry
(Section 9-36.2(2) is supplemented with the following)
Must use once preceding any of the following:

6-19.2(9-36.2(2)).OPT1.GB6 (Fresh Water for Synthetic Slurry)
(January 2, 2012)
Use in projects with shafts constructed in salt water when the geotechnical report specifies that the use of fresh water for synthetic slurry is feasible and when the Contracting Agency restricts the water for synthetic slurry to fresh water only. Include with **6-19.4.OPT3.GB6** and **6-19.5.OPT2.GB6.**

6-19.2(9-36.4).GR6 (Access Tubes and Caps)
(The first paragraph of Section 9-36.4 is revised to read)
Must use once preceding any of the following:

6-19.2(9-36.4).OPT1.GR6 (Shaft Related Materials)
(October 3, 2022)
Use in projects that contain shaft construction and crosshole sonic log testing is required.

6-19.3.GR6 Construction Requirements

6-19.3(3).GR6 Shaft Excavation

6-19.3(3).INST1.GR6 (Section 6-19.3(3) is supplemented with the following)

Must use once preceding any of the following:

6-19.3(3).OPT1.GB6 (Variations In Bearing Layer Elevations)
(January 2, 2012)
Use in projects where shaft embedment to a minimum penetration into a bearing layer is required, and where the bearing layer elevation cannot be accurately specified with certainty. Include with **6-19.3(5).OPT1.GB6.**

6-19.3(3)B.GR6 Temporary and Permanent Shaft Casing

6-19.3(3)B.INST1.GR6 (Section 6-19.3(3)B is supplemented with the following)
Must use once preceding any of the following:

6-19.3(3)B.OPT2.GB6 (Rotating/Oscillating Method Required)
(January 2, 2012)
Use in projects where the geotechnical report for the project recommends, and the ADSC/WSDOT Shaft Task Force concurs, that site conditions dictate the use of the rotating/oscillating method for shaft excavation.

6-19.3(3)B4.GR6 Temporary Telescoping Shaft Casing

6-19.3(3)B4.INST1.GR6 (The second paragraph of Section 6-19.3(3)B4 is revised to read as follows)
Must use once preceding any of the following:

6-19.3(3)B4.OPT1.GB6 (Temp. Telescoping Casing Not Allowed At End Piers)
(January 2, 2012)
Use in projects where design conditions exist where the option of temporary telescoping casing for shafts at bridge end piers is not appropriate for the overall design behavior of the overall bridge.

6-19.3(3)I.GR6 Required Use of Slurry in Shaft Excavation

6-19.3(3)I.INST1.GR6 (Section 6-19.3(3)I is supplemented with the following)
Must use once preceding any of the following:

6-19.3(3)I.OPT1.GB6 (Exception For Casing Sealed Against Influx Of Water Into Excavation)
(August 3, 2015)
Use in projects where the geotechnical conditions, as documented in the geotechnical report for the project, allow the possibility of performing shaft excavation in a cased hole beneath the water table level without the need for

slurry to ensure the stability of the bottom of the excavation.

6-19.3(4).GR6 Slurry Installation Requirements

6-19.3(4)A.GR6 Slurry Technical Assistance

6-19.3(4)A.INST1.GR6 (Section 6-19.3(4)A is supplemented with the following)
Must use once preceding any of the following:

6-19.3(4)A.OPT1.FB6 (Slurry Manufacturer's Representative's Presence Required At Specific Shaft Sites) (January 2, 2012)
Use in projects where the geotechnical conditions vary enough from one shaft site to another to affect how the slurry is used at each shaft site. The fill-in identifies the specific shaft locations where the presence of the slurry manufacturer's representative is required.
(1 fill-in)

6-19.3(5).GR6 Assembly and Placement of Reinforcing Steel

6-19.3(5).INST1.GR6 (Section 6-19.3(5) is supplemented with the following)
Must use once preceding any of the following:

6-19.3(5).OPT1.GB6 (Variations In Bearing Layer Elevations) (August 1, 2016)
Use in projects where shaft embedment to a minimum penetration into a bearing layer is required, and where the bearing layer elevation cannot be accurately specified with certainty. Include with **6-19.3(3).OPT1.GB6.**

6-19.3(6).GR6 Contractor Furnished Accessories for Nondestructive QA Testing

6-19.3(6)E.GR6 Thermal Wire and Thermal Access Points (TAPs)

6-19.3(6)E.INST1.GR6 (Section 6-19.3(6)E is supplemented with the following)
Must use once preceding any of the following:

6-19.3(6)E.OPT1.GB6 (Thermal Wire and Associated Couplers) (January 2, 2018)
Use in projects that include shaft construction requiring nondestructive testing. This includes all bridge foundation shafts, but may or may not include other shafts such as sign bridges, cantilever sign structures, signal standards, etc.

6-19.3(7).GR6 Placing Concrete

6-19.3(7)D.GR6 Requirements for Placing Concrete Underwater

6-19.3(7)D.INST1.GR6 (Section 6-19.3(7)D is supplemented with the following)
Must use once preceding any of the following:

6-19.3(7)D.OPT1.GB6 (Tremie Allowed As An Alternative To Concrete Pump)
(January 2, 2012)
Use in projects where the construction site is at a remote location where it may be difficult to make arrangements to have a concrete pump at the site.

6-19.4.GR6 Measurement

6-19.4.INST2.GR6 (Section 6-19.4 is supplemented with the following)
Must use once preceding any of the following:

6-19.4.OPT3.GB6 (Fresh Water For Synthetic Slurry)
(January 2, 2012)
Use in projects with shafts constructed in salt water when the geotechnical report specifies that the use of fresh water for synthetic slurry is feasible and when the Contracting Agency restricts the water for synthetic slurry to fresh water only. Include with **6-19.2(9-36.2(2)).OPT1.GB6 and 6-19.5.OPT2.GB6.**

6-19.5.GR6 Payment

6-19.5.INST1.GR6 (Section 6-19.5 is supplemented with the following)
Must use once preceding any of the following:

6-19.5.OPT2.GB6 (Fresh Water for Synthetic Slurry)
(January 2, 2012)
Use in projects with shafts constructed in salt water when the geotechnical report specifies that the use of fresh water for synthetic slurry is feasible and when the Contracting Agency restricts the water for synthetic slurry to fresh water only. Include with **6-19.2(9-36.2(2)).OPT1.GB6 and 6-19.4.OPT3.GB6.**

6-20.GR6 Buried Structures

6-20.1.GR6 Description

6-20.1(1).GR6 Definitions

6-20.1(1).INST1.GR6 (The list of types of buried structures in Section 6-20.1(1) is supplemented with the following:)
Must use once preceding any of the following: