

1	<u>DIVISION6.GR6</u>	STRUCTURES
2		
3	<u>01.GB6</u>	GENERAL REQUIREMENTS FOR STRUCTURES
4		
5	<u>0102.GB6</u>	Foundation Data
6		
7	<u>010201.GB6</u>	(Test Hole Data)
8		(June 26, 2000)
9		Use in projects with foundation test holes. Include with
10		0204.FR1 , and either APPENDIX1.FR9 or
11		APPENDIX2.FR9 .
12		
13	<u>010202.GB6</u>	(Summary of Geotechnical Conditions)
14		(August 6, 2001)
15		Use in projects where the Materials Laboratory
16		Geotechnical Branch has prepared a Summary of
17		Geotechnical Conditions to be included in the PS&E as an
18		Appendix to the Special Provisions. Include with 0204.FR1 ,
19		010201.GB6 , and APPENDIX2.FR9 .
20		
21	<u>0107.GB6</u>	Navigable Streams
22		
23	<u>010701.FB6</u>	(Navigation Lighting System)
24		(June 26, 2000)
25		Use in projects requiring installation of a navigation lighting
26		system. The fill-in specifies the Bridge Number. Include
27		with either 070631.FB1 or 070632.GB1 .
28		(1 fill-in)
29		
30	<u>010702.FB6</u>	(Temporary Navigation Lights)
31		(June 26, 2000)
32		Use in projects requiring installation of temporary navigation
33		lights. The fill-in specifies the bid item name. Include with
34		either 070631.FB1 or 070632.GB1 .
35		(1 fill-in)
36		
37	<u>02031301.FB6</u>	MODULAR EXPANSION JOINT SYSTEM
38		(August 4, 2008)
39		Include in projects requiring a modular expansion joint system. The
40		fill-in in Section 3.04.D specifies the percentage of the amplified
41		vertical load range to be used for the horizontal load range for fatigue
42		design. The fill-in value shall be 20 percent except as otherwise
43		specified. The fill-in value shall be 50 percent for all modular
44		expansion joint systems installed at locations subject to significant
45		braking and acceleration forces or to particularly large movement
46		ranges. Coordination with the Bridge and Structures Office Bearing
47		and Expansion Joint Specialist is required. Include with
48		0303301.FB6 and 070304.GB6 .
49		(1 fill-in)
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1 **02.GR6**

CONCRETE STRUCTURES

2
3 **022.GR6**

Materials

4
5 **0221.GR6**

Resin Bonded Anchors

(April 7, 2008)

6
7 Include in projects requiring resin bonded anchors for
8 attaching and anchoring items to concrete structures. *Must*
9 *also include* **02318.GR6**.

10
11 **02203.GB6**

(Epoxy Bonding Agent For Surfaces And For Steel
Reinforcing Bar Dowels)

(December 2, 2002)

12
13
14 Use in projects when epoxy resin is required for setting
15 steel reinforcing bars into holes drilled into concrete.
16 Include with **02324C1.GB6** and **025C1.GB6**.

17
18 **02204.GB6**

(Epoxy Mortar)

(December 2, 2002)

19
20 Use in projects which require the use of epoxy mortar.
21 Include with **02310D2.GB6** and **025A1.GB6** when coating
22 existing bridge deck surfaces.

23
24 **02209.GB6**

(Epoxy Crack Sealing)

(June 26, 2000)

25
26 Use in projects which require sealing cracks in existing
27 concrete with injected epoxy resin. Include with
28 **023001.GB6**, **02410.GB6**, and **2510.GB6**.

29
30 **02210.GB6**

(Exposed Aggregate Finish)

(January 7, 2008)

31
32 Use in projects requiring exposed aggregate finish of
33 concrete surfaces. Include with **02305A1.GB6**,
34 **0231401.GB6**, **025A2.FB6**, **02211.GB6** and **0231403.GB6**.

35
36 **02211.GB6**

(Clear Sealer for Exposed Aggregate Finish)

(April 2, 2007)

37
38 Use in projects with an exposed aggregate finish. Include
39 with **02210.GB6**, **02305A1.GB6**, **0231401.GB6**,
40 **0231403.GB6**, and **025A2.FB6**.

41
42 **02212.GB6**

(Fractured Basalt Finish)

(April 7, 2008)

43
44 Use in projects requiring fractured basalt finish of concrete
45 surfaces. Include with **0231405.GB6**, **0231409A.GB6**, and
46 **025A2.FB6**.

1	<u>02213.GB6</u>	(Fractured Fin Finish)
2		(April 7, 2008)
3		Use in projects requiring fractured fin finish of concrete
4		surfaces. Include with 0231405.GB6 , 0231406.GB6 , and
5		025A2.FB6 .
6		
7	<u>02214.GB6</u>	(Fractured Granite Finish)
8		(April 7, 2008)
9		Use in projects requiring fractured granite finish of concrete
10		surfaces. Include with 0231405.GB6 , 0231407.GB6 , and
11		025A2.FB6 .
12		
13	<u>02215.GB6</u>	(Variable Depth Random Board Finish and 3/4 Inch
14		Random Board Finish)
15		(April 7, 2008)
16		Use in projects requiring use of elastomeric, ABS, or plastic
17		form liners to produce random board finish of concrete
18		surfaces. Include with 0231405.GB6 , 0231408.GB6 , and
19		025A2.FB6 .
20		
21	<u>02216A.GB6</u>	(Ribbed Finish)
22		(April 7, 2008)
23		Use in projects requiring ribbed finish of concrete surfaces.
24		Include with 0231405.GB6 , 0231409B.GB6 , and
25		025A2.FB6 .
26		
27	<u>02216B.GB6</u>	(Striated Finish)
28		(April 7, 2008)
29		Use in projects requiring striated finish of concrete surfaces.
30		Include with 0231405.GB6 , 0231409C.GB6 , and
31		025A2.FB6 .
32		
33	<u>02217A.GB6</u>	(Ashlar Stone Finish)
34		(April 7, 2008)
35		Use in projects requiring ashlar stone finish of concrete
36		surfaces. Include with 0231405.GB6 , 0231409D.GB6 , and
37		025A2.FB6 .
38		
39	<u>02217B.GB6</u>	(Block Finish)
40		(April 7, 2008)
41		Use in projects requiring block finish of concrete surfaces.
42		Include with 0231405.GB6 , 0231409E.GB6 , and
43		025A2.FB6 .
44		
45	<u>02217C.GB6</u>	(Split Face Finish)
46		(April 7, 2008)
47		Use in projects requiring split face finish of concrete
48		surfaces. Include with 0231405.GB6 , 0231409F.GB6 , and
49		025A2.FB6 .
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1	<u>02218.GB6</u>	(River Rock Finish)
2		(April 7, 2008)
3		Use in projects requiring use of river rock finish of concrete
4		surfaces. Include with 0231405.GB6 , 0231409G.GB6 , and
5		025A2.FB6 .
6		
7	<u>02221.GB6</u>	(Strip Seal Expansion Joint System)
8		(August 3, 2009)
9		Use in projects requiring a strip seal expansion joint system.
10		Include with 023132.GB6 , and 070304.GB6 . Also include
11		with 02402.FB6 and 02502.GB6 if the unit contract bid item
12		“Expansion Joint System Strip Seal - Superstr.” is used to
13		pay for the work.
14		
15	<u>02222.GB6</u>	(Compression Seal Expansion Joint System)
16		(June 26, 2000)
17		Use in projects requiring a compression seal expansion
18		joint system. Include with 023133.GB6 . Also include with
19		02402.FB6 and 02502.GB6 if the unit contract bid item
20		“Expansion Joint System Compression Seal - Superstr.” is
21		use to pay for the work.
22		
23	<u>02230.GB6</u>	(Fabric Pad Bearing)
24		(April 7, 2008)
25		Use in projects requiring fabric pad bearings. Include with
26		02319B1.GB6 , 02408.FB6 , 02508.GB6 , and
27		0303301.FB6 .
28		
29	<u>02240.GB6</u>	(Bridge Supported Utilities)
30		(June 26, 2000)
31		<i>Must use once, preceding one of the following:</i>
32		
33	<u>022401.GB6</u>	(Bridge Supported Utilities)
34		(June 26, 2000)
35		Use in projects with bridge supported utilities when the
36		supports include concrete inserts. Include with
37		0230021.GB6 , 02401.FB6 , and either 025B1.FB6 or
38		02501.FB6 .
39		
40	<u>022402.GB6</u>	(Bridge Supported Utilities)
41		(April 30, 2001)
42		Use in projects with bridge supported utilities when the
43		supports include steel rods, bars, and plates. Include
44		with 022401.GB6 , 0230021.GB6 , and 02521.FB6 , and
45		either 0230022.GB6 , or 0230023.FB6 and 02522.GB6 .
46		

1	<u>022403.GB6</u>	(Bridge Supported Utilities)
2		(June 26, 2000)
3		Use in projects with bridge supported utilities when the
4		supports include transverse braces. Include with
5		022401.GB6 , 022402.GB6 , 0230021.GB6 , and
6		02521.FB6 , and either 0230022.GB6 , or 0230023.FB6
7		and 02522.GB6 .
8		
9	<u>022404.GB6</u>	(Bridge Supported Utilities)
10		(June 26, 2000)
11		Use in projects with bridge supported utilities when the
12		supports include pipe rolls or pipe saddles. Include
13		with 02521.FB6 and other applicable bridge supported
14		utility material and construction requirement GSP's.
15		
16	<u>022405.GB6</u>	(Bridge Supported Utilities)
17		(April 30, 2001)
18		Use in projects with bridge supported utilities in
19		concrete box girder bridges when the utilities are
20		supported on anchor blocks on the bottom slab.
21		Include with 02521.FB6 and other applicable bridge
22		supported utility material and construction requirement
23		GSP's.
24		
25	<u>02245.GB6</u>	(Bridge Grate Inlet)
26		(April 30, 2001)
27		Use in projects with bridge grate inlets. Include with
28		02411.GB6 and 02511.GB6 .
29		
30	<u>02246.GB6</u>	(Bridge Drain Risers)
31		(April 30, 2001)
32		Use in projects requiring the raising of bridge drains prior to
33		asphalt or modified concrete overlay work on bridge decks.
34		Include with 02310D3.GB6 . Also include with
35		02310D4.GB6 if the bridge deck is overlaid with membrane
36		waterproofing and ACP. Include with 02514.FB6 if the work
37		is included in the cost of the membrane waterproofing or
38		modified concrete overlay. Include with 02412.GB6 and
39		02512.GB6 if the unit contract bid item "Modify Bridge
40		Drain" is used to pay for the work.
41		
42	<u>02250.GB6</u>	(Bridge Deck Repair Concrete)
43		(August 4, 2008)
44		Use in projects where bridge deck repair is required (except
45		not required for bridge deck overlay projects with modified
46		concrete). Include with 02310D6.GB6 . Include with
47		02415.GB6 and 02515.GB6 when the volume of work can
48		be determined from bridge deck survey data. Include with
49		02516.GB6 when the work will be paid by force account.
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023.GR6

Construction Requirements

023A.GB6

Must use once, preceding one of the following:

023001.GB6

(Epoxy Crack Sealing)
(June 26, 2000)
Use in projects which require sealing cracks in existing concrete with injected epoxy resin. Include with **02209.GB6, 02410.GB6, and 02510.GB6.**

023002.GB6

(Bridge Supported Utilities)
(June 26, 2000)
Must use once, preceding one of the following:

0230021.GB6

(Bridge Supported Utilities)
(June 26, 2000)
Use in projects with bridge supported utilities when the supports include concrete inserts. Include with **02240.GB6, 02401.FB6, and either 25B1.FB6 or 02501.FB6.**

0230022.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 **02521.FB6** and other applicable bridge supported utility material GSP's. Include with **022401.GB6, 0230021.GB6, 02401.FB6, and either 025B1.FB6 or 02501.FB6** when the supports include concrete inserts.

0230023.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 **02521.FB6 and 02522.GB6, and other applicable bridge supported utility material GSP's. Include with 022401.GB6, 0230021.GB6, 02401.FB6, and either 025B1.FB6 or 02501.FB6** when the supports include concrete inserts.
(3 fill-ins)

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[023003.GB6](#)

(Submittals)
(April 3, 2006)
Include in all projects when pH monitoring is a condition of a 401 Water Quality Certification, or other permit. Do not use in projects covered by a NPDES General Construction permit. Requires approval of Regional Environmental Manager and Regional Construction Manager. *Must also use 025A4.GB6, 01031A1.GR5, 0105.GR5, 05031B.GR5, 0505.GR5, 0103A.GR8, 01031A.GR8, and 0105.GR8.*

[02305.GB6](#)

Acceptance of Concrete

[02305A.GB6](#)

General

[02305A1.GB6](#)

(Concrete Class EA)
(June 26, 2000)
Use in projects requiring concrete members with exposed aggregate finish. Include with **02210.GB6, 0231401.GB6, 025A2.FB6, 02211.GB6** and **0231403.GB6**

[02306.GB6](#)

Placing Concrete

[02306B.GB6](#)

Placing Concrete in Foundation Seals

[02306B1.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.

[02306B2.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.

[02310.GB6](#)

Bridge Decks and Bridge Approach Slabs

[02310D.GB6](#)

Concrete Placement, Finishing, and Texturing

[02310D1.GB6](#)

(Repairing Slab Left Exposed After Removing Existing Curb or Sidewalk)
(August 4, 2008)
Use in projects when existing curbs or sidewalks are to be removed and the portion of the slab under the curb or sidewalk that is to remain exposed will be within two feet from the traffic lane.

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[02310D2.GB6](#)

(Repairing Slab Left Exposed After Removing Existing Curb or Railbase)
(August 4, 2008)
Use in projects when existing curbs or railbases are to be removed and the portion of the slab under the curb or railbase that is to remain exposed will be more than two feet from the traffic lane. Include with **02204.GB6** and **025A1.GB6**.

[02310D3.GB6](#)

(Bridge Drain Risers)
(August 3, 2009)
Use in projects requiring the raising of bridge drains prior to asphalt or modified concrete overlay work on bridge decks. Include with **02246.GB6**. Include with **02310D4.GB6** if the bridge deck is overlaid with membrane waterproofing and ACP. Include with **02514.FB6** if the work is included in the cost of the membrane waterproofing or modified concrete overlay. Include with **02412.GB6** and **02512.GB6** if the unit contract bid item "Modify Bridge Drain" is used to pay for the work.

[02310D4.GB6](#)

(Bridge Drain Risers)
(August 4, 2008)
Use in projects requiring the raising of bridge drains prior to membrane waterproofing and asphalt overlay work. Include with **02246.GB6** and **02310D3.GB6**. Include with **02514.FB6** if the work is included in the cost of the membrane waterproofing. Include with **02412.GB6** and **02512.GB6** if the unit contract bid item "Modify Bridge Drain" is used to pay for the work.

[02310D5.GB6](#)

(Plugging Existing Bridge Drain)
(August 3, 2009)
Use in projects requiring plugging of bridge drains. Include with **02514.FB6** if the work is included in the cost of the membrane waterproofing or modified concrete overlay. Include with **02413.GB6** and **02513.GB6** if the unit contract bid item "Plugging Existing Bridge Drain" is used to pay for the work.

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[02310D6.GB6](#)

(Bridge Deck Repair)
(August 4, 2008)
Use in projects where bridge deck repair is required (except not required for bridge deck overlay projects with modified concrete). Include with **02250.GB6**. Include with **02415.GB6** and **02515.GB6** when the volume of work can be determined from bridge deck survey data. Include with **02516.GB6** when the work will be paid by force account.

[02310F.GB6](#)

Bridge Approach Slab Orientation and Anchors

[02310F1.GB6](#)

(Construct pavement end of approach slabs normal to roadway centerline)
(August 4, 2008)
Must also use 02310F4.GB6.
Use in projects when the pavement ends of all approach slabs are constructed normal to roadway centerline.

[02310F2.GB6](#)

(Construct pavement end of approach slabs parallel to pavement seat)
(August 4, 2008)
Must also use 02310F4.GB6.
Use in projects when the pavement ends of all approach slabs are constructed parallel to the pavement seat.

[02310F3.FB6](#)

(Construct pavement end of approach slabs both normal to the roadway centerline and parallel to pavement seat)
(August 4, 2008)
Must also use 02310F4.GB6.
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)

[02310F4.GB6](#)

(Compression seal requirements)
(August 4, 2008)
Must be used with 02310F1.GB6, 02310F2.GB6, or 02310F3.FB6.

[02313.GB6](#)

Expansion Joints

1	<u>023132.GB6</u>	(Strip Seal Expansion Joint System)
2		(June 26, 2000)
3		Use in projects requiring a strip seal expansion joint
4		system. Include with 02221.GB6 , and 070304.GB6 .
5		Also include with 02402.FB6 and 02502.GB6 if the unit
6		contract bid item "Expansion Joint System Strip Seal -
7		Superstr." is used to pay for the work.
8		
9	<u>023133.GB6</u>	(Compression Seal Expansion Joint System)
10		(June 26, 2000)
11		Use in projects requiring a compression seal expansion
12		joint system. Include with 02222.GB6 . Also include
13		with 02402.FB6 and 02502.GB6 if the unit contract bid
14		item "Expansion Joint System Compression Seal -
15		Superstr." is used to pay for the work..
16		
17	<u>02314.GB6</u>	Finishing Concrete Surfaces
18		
19	<u>0231401.GB6</u>	(Exposed Aggregate Finish)
20		(June 26, 2000)
21		Use in projects requiring exposed aggregate finish of
22		concrete surfaces. Include with 02210.GB6 ,
23		02305A1.GB6 , 025A2.FB6 , 02211.GB6 and
24		0231403.GB6 .
25		
26	<u>0231402.GB6</u>	(Containment)
27		(June 26, 2000)
28		Use in projects requiring exposed aggregate finish of
29		concrete surfaces over water. Include with
30		02210.GB6 , 02305A1.GB6 , 0231401.GB6 ,
31		025A2.FB6 , 02211.GB6 and 0231403.GB6 .
32		
33	<u>0231403.GB6</u>	(Applying Clear Sealer)
34		(April 2, 2007)
35		Use in projects with an exposed aggregate finish.
36		Include with 02210.GB6 , 02211.GB6 , 02305A1.GB6 ,
37		0231401.GB6 , and 025A2.FB6 .
38		
39	<u>0231405.GB6</u>	(General Requirements for Concrete Surface Finishes
40		Produced by Form Liners)
41		(June 26, 2000)
42		Use in projects requiring concrete surface finishes
43		produced by form liners. Include with 025A2.FB6 and
44		with appropriate pairs of material and construction
45		requirements GSP's for each type of concrete finish in
46		the project produced by premanufactured formliners.
47		

1	<u>0231406.GB6</u>	(Fractured Fin Finish)
2		(June 26, 2000)
3		Use in projects requiring fractured fin finish of concrete
4		surfaces. Include with 02213.GB6 , 0231405.GB6 , and
5		025A2.FB6 .
6		
7	<u>0231407.GB6</u>	(Fractured Granite Finish)
8		(June 26, 2000)
9		Use in projects requiring fractured granite finish of
10		concrete surfaces. Include with 02214.GB6 ,
11		0231405.GB6 and 025A2.FB6 .
12		
13	<u>0231408.GB6</u>	(Variable Depth Random Board Finish and 3/4 Inch
14		Random Board Finish)
15		(April 7, 2008)
16		Use in projects requiring use of elastomeric, ABS, or
17		plastic form liners to produce random board finish of
18		concrete surfaces. Include with 02215.GB6 ,
19		0231405.GB6 and 025A2.FB6 .
20		
21	<u>0231409.GB6</u>	(Random Board Finish)
22		(June 26, 2000)
23		Use in projects requiring use of wooden forms
24		conforming to Section 6-02.3(17)J to produce random
25		board finish of concrete surfaces. Include with
26		025A2.FB6 .
27		
28	<u>0231409A.GB6</u>	(Fractured Basalt Finish)
29		(April 7, 2008)
30		Use in projects requiring fractured basalt finish of
31		concrete surfaces. Include with 02212.GB6 ,
32		0231405.GB6 , and 025A2.FB6 .
33		
34	<u>0231409B.GB6</u>	(Ribbed Finish)
35		(August 6, 2007)
36		Use in projects requiring ribbed finish of concrete
37		surfaces. Include with 02216A.GB6 , 0231405.GB6
38		and 025A2.FB6 .
39		
40	<u>0231409C.GB6</u>	(Striated Finish)
41		(August 6, 2007)
42		Use in projects requiring striated finish of concrete
43		surfaces. Include with 02216B.GB6 , 0231405.GB6
44		and 025A2.FB6 .
45		
46	<u>0231409D.GB6</u>	(Ashlar Stone Finish)
47		(August 6, 2007)
48		Use in projects requiring ashlar stone finish of concrete
49		surfaces. Include with 02217A.GB6 , 0231405.GB6 ,
50		and 025A2.FB6 .
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[0231409E.GB6](#)

(Block Finish)
(August 6, 2007)
Use in projects requiring block finish of concrete surfaces. Include with **02217B.GB6**, **0231405.GB6** and **025A2.FB6**.

[0231409F.GB6](#)

(Split Face Finish)
(April 7, 2008)
Use in projects requiring split face finish of concrete surfaces. Include with **02217C.GB6**, **0231405.GB6** and **025A2.FB6**.

[0231409G.GB6](#)

(River Rock Finish)
(April 7, 2008)
Use in projects requiring river rock finish of concrete surfaces. Include with **02218.GB6**, **0231405.GB6**, and **025A2.FB6**.

[02314C.GB6](#)

Pigmented Sealer for Concrete Surfaces

[02314C1.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.

[02314C2.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.

[02314C3.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.

[02314C4.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.

[02314C9.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)

[02317.GB6](#)

Falsework and Formwork

[02317C.GB6](#)

Falsework and Formwork at Special Locations

[02317C1.GB6](#)

(Falsework Adjacent to or over Railroad Tracks)

(June 26, 2000)

Use in bridge projects requiring falsework adjacent to or over railroad tracks.

[02317K.GB6](#)

Concrete Forms on Steel Spans

[02317K1.GB6](#)

(Stay-in-place Metal forms for Steel Box Girders)

(August 3, 2009)

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 **02401.FB6**, **02501.FB6**, **0303151.GB6**, **030328B1.GB6**, **0303301.FB6**, **0303391.GB6**, and **03041.FB6**.

[02318.GR6](#)

Placing Anchor Bolts

(August 5, 2002)

Include in projects requiring resin bonded anchors for attaching and anchoring items to concrete structures. Must also include 0221.GR6.

[02319.GB6](#)

Bridge Bearings

[02319B.GB6](#)

Bridge Bearing Assemblies

[02319B1.GB6](#)

(Fabric Pad Bearing)

(August 3, 2009)

Use in projects requiring fabric pad bearings. Include with **02230.GB6**, **02408.FB6**, **02508.GB6**, and **0303301.FB6**.

[02320.GB6](#)

Grout for Anchor Bolts and Bridge Bearings

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[023201.FB6](#)

(Grout)
(June 26, 2000)
Use in projects requiring grout for structural applications such as grout pads for beams and girders, bridge bearing plates, post base plates, (does not include cantilever sign structures) etc. The fill-in specifies the locations where the grout is required.
(1 fill-in)

[02324.GB6](#)

Reinforcement

[02324C.GB6](#)

Placing and Fastening

[02324C1.GB6](#)

(Drilling Holes for, and Setting, Steel Reinforcing Bar Dowels)
(June 26, 2000)
Use in projects where holes are drilled into existing concrete and steel reinforcing bar dowels are set with epoxy resin. Include with **02203.GB6** and **025C1.GB6**. Include the above with **02014.GR2**, **02030207.GB2**, **02035.GR2**, **02324C2.GR6**, and either **020512.GR2** or **020515.GR2** when extending a conc. box culvert.

[02324C2.GR6](#)

(Drilling Holes for, and Setting, Dowels for Conc. Box Culvert Extension)
(June 26, 2000)
Use in projects requiring the extension of an existing conc. box culvert. Include with **02014.GR2**, **02030207.GB2**, **02035.GR2**, **02203.GB6**, **02324C1.GB6**, **025C1.GB6**, and either **020512.GR2** or **020515.GR2**.

[02326.GB6](#)

Cast-in-Place Prestressed Concrete

1	023261.GB6	(Cast-in-Place Prestressed Concrete)
2		(June 26, 2000)
3		Use in projects with segmental post-tensioned
4		structures. Check with the Region Construction
5		Engineer to see if testing equipment is available.
6		
7	02328.GR6	Precast Concrete Panels
8		
9	023281.GR6	(Precast Reinforced Concrete Three Sided
10		Structures)
11		(April 6, 2009)
12		Use in projects requiring precast reinforced concrete
13		three sided structures of span lengths of 26 feet or
14		less. <i>Must include 02328A1.GR6, 02328B1.GR6,</i>
15		<i>02328E1.GR6, 02328G1.GR6, 02328H1.GR6,</i>
16		<i>02328I1.GR6, and 0251.GR6.</i>
17		
18	0232811.GR6	(Approved Product(s))
19		(April 3, 2006)
20		Use in projects requiring precast reinforced
21		concrete three sided structures of span lengths of
22		26 feet or less, where the subgrade depth between
23		top of concrete structure and bottom of HMA or
24		PCCP pavement is 1'-0" or greater, and with the
25		approval of the HQ Hydraulics Office. <i>Must include</i>
26		<i>with 023281.GR6, 02328A1.GR6, 02328B1.GR6,</i>
27		<i>02328E1.GR6, 02328G1.GR6, 02328H1.GR6,</i>
28		<i>02328I1.GR6, and 0251.GR6.</i>
29		
30	02328A.GR6	Shop Drawings
31		
32	02328A1.GR6	Precast Reinforced Concrete Three Sided
33		Structures
34		(December 2, 2002)
35		Use in projects requiring precast reinforced concrete
36		three sided structures of span lengths of 26 feet or
37		less. <i>Must include with 023281.GR6, 02328B1.GR6,</i>
38		<i>02328E1.GR6, 02328G1.GR6, 02328H1.GR6,</i>
39		<i>02328I1.GR6, and 0251.GR6.</i>
40		
41	02328B.GR6	Casting
42		
43	02328B1.GR6	Precast Reinforced Concrete Three Sided
44		Structures
45		(April 30, 2001)
46		Use in projects requiring precast reinforced concrete
47		three sided structures of span lengths of 26 feet or
48		less. <i>Must include with 023281.GR6, 02328A1.GR6,</i>
49		<i>02328E1.GR6, 02328G1.GR6, 02328H1.GR6,</i>
50		<i>02328I1.GR6, and 0251.GR6.</i>
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[02328E.GR6](#)

Finishing

[02328E1.GR6](#)

Precast Reinforced Concrete Three Sided Structures

(January 7, 2002)

Use in projects requiring precast reinforced concrete three sided structures of span lengths of 26 feet or less. Must include with **023281.GR6**, **02328A1.GR6**, **02328B1.GR6**, **02328G1.GR6**, **02328H1.GR6**, **02328I1.GR6**, and **0251.GR6**.

[02328G.GR6](#)

Handling and Storage

[02328G1.GR6](#)

Precast Reinforced Concrete Three Sided Structures

(April 30, 2001)

Use in projects requiring precast reinforced concrete three sided structures of span lengths of 26 feet or less. *Must include with* **023281.GR6**, **02328A1.GR6**, **02328B1.GR6**, **02328E1.GR6**, **02328H1.GR6**, **02328I1.GR6**, and **0251.GR6**.

[02328H.GR6](#)

Shipping

[02328H1.GR6](#)

Precast Reinforced Concrete Three Sided Structures

(April 30, 2001)

Use in projects requiring precast reinforced concrete three sided structures of span lengths of 26 feet or less. *Must include with* **023281.GR6**, **02328A1.GR6**, **02328B1.GR6**, **02328E1.GR6**, **02328G1.MR6**, **02328I1.GR6**, and **0251.GR6**.

[02328I.GR6](#)

Erection

[02328I1.GR6](#)

Precast Reinforced Concrete Three Sided Structures

(August 3, 2009)

Use in projects requiring precast reinforced concrete three sided structures of span lengths of 26 feet or less. *Must include with* **023281.GR6**, **02328A1.GR6**, **02328B1.GR6**, **02328E1.GR6**, **02328G1.GR6**, **02328H1.GR6**, and **0251.GR6**.

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024.GB6

Measurement

02401.FB6

(Summary of Quantities for Superstructure and Roadway Deck)
(June 26, 2000)
Use in bridge construction projects with lump sum items for superstructure or roadway deck. The first and third fill-in specify the appropriate bid item name (“Superstructure - _____” or “Roadway Deck - _____”). The second fill-in itemizes the approximate quantities included. Include with **025B1.FB6** for superstructure, and with **02501.FB6** for roadway deck.
(3 fill-ins)

02402.FB6

(Expansion Joint System)
(June 26, 2000)
Use in projects where the strip seal or compression seal expansion joint systems are stand-alone bid items. The fill-in specifies the type of expansion joint system. Include with **02502.GB6**, and either **02221.GB6**, **023132.GB6**, and **070304.GB6**, or **02222.GB6** and **023133.GB6**.
(1-fill-in)

02408.FB6

(Bridge Bearing Assembly)
(June 26, 2000)
Use in projects with bridge bearing assemblies. The fill-in specifies the type of bridge bearing assembly. Include with **02508.GB6**. Include with **02230.GB6**, **02319B1.GB6**, and **0303301.FB6** for fabric pad bearings.
(1 fill-in)

02410.GB6

(Epoxy Crack Sealing)
(June 26, 2000)
Use in projects which require sealing cracks in existing concrete with injected epoxy resin. Include with **02209.GB6**, **023001.GB6**, and **02510.GB6**.

02411.GB6

(Bridge Grate Inlet)
(June 26, 2000)
Use in projects with bridge grate inlets. Include with **02245.GB6** and **02511.GB6**.

02412.GB6

(Modifying Bridge Drain)
(June 26, 2000)
Use in projects where modifying bridge drains is a stand-alone bid item. Include with **02246.GB6**, **02310D3.GB6**, and **02512.GB6** with modified concrete overlay projects. Include the above with **02310D4.GB6** with membrane waterproofing and ACP overlay projects.

1	02413.GB6	(Plugging Existing Bridge Drain)
2		(June 26, 2000)
3		Use in projects where plugging existing bridge drains is a
4		stand-alone bid item. Include with 02310D5.GB6 and
5		02513.GB6 .
6		
7	02415.GB6	(Bridge Deck Repair)
8		(June 26, 2000)
9		Use in projects where bridge deck repair is required and
10		when the volume of work can be determined from the deck
11		survey data (except not required for bridge deck overlay
12		projects with modified concrete). Include with 02250.GB6 ,
13		02310D6.GB6 , and 02515.GB6 .
14		
15	025.GR6	Payment
16		
17	025A.GB6	<i>Must use once, preceding one of the following:</i>
18		
19	025A1.GB6	(Coating Surfaces with Epoxy Mortar)
20		(June 26, 2000)
21		Use in projects requiring coating of concrete surfaces
22		with epoxy mortar. Include with 02204.GB6 and
23		02310D2.GB6 .
24		
25	025A2.FB6	(Concrete Surface Finish)
26		(June 26, 2000)
27		Use in projects where concrete surfaces receive a
28		formed finish other than Class 1 or Class 2. The fill-in
29		specifies the type of formed finish. Include with the
30		appropriate Material and Construction Requirement
31		GSP's for the concrete surface finish involved.
32		(1 fill-in)
33		
34	025A4.GB6	(Payment)
35		(April 3, 2006)
36		<i>Must include with 023003.GB6, 01031A1.GR5,</i>
37		<i>0105.GR5, 05031B.GR5, 0505.GR5, 0103A.GR8,</i>
38		<i>01031A.GR8, and 0105.GR8.</i>
39		
40	025B.GB6	<i>Must use once, preceding the following:</i>
41		
42	025B1.FB6	(Superstructure)
43		(June 26, 2000)
44		Use in bridge projects with lump sum items for
45		superstructure when payment for certain features is to
46		be included in the superstructure item. The fill-in
47		specifies work items included in the bid item. Include
48		with 02401.FB6 .
49		(1 fill-in)
50		
51	025C.GB6	<i>Must use once, preceding the following:</i>

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[025C1.GB6](#)

(Drilling Holes and Setting Dowels with Epoxy Resin)
(June 26, 2000)
Use in projects where holes are drilled into concrete and steel reinforcing bar dowels are set with epoxy resin. Include with **02203.GB6** and **02324C1.GB6**. Include the above with **02014.GR2**, **02030207.GB2**, **02035.GR2**, **02324C2.GR6**, and either **020512.GR2** or **020515.GR2** when extending a conc. box culvert.

[025D.GB6](#)

Must use once, preceding one of the following:

[0251.GR6](#)

(Precast Reinforced Concrete Three Sided Structures)
(April 28, 1997)
Use in projects requiring precast reinforced concrete three sided structures of span lengths of 26 feet or less. Must include with **023281.GR6**, **02328A1.GR6**, **02328B1.GR6**, **02328E1.GR6**, **02328G1.GR6**, **02328H1.GR6**, and **02328I1.GR6**

[02501.FB6](#)

(Roadway Deck)
(June 26, 2000)
Use in steel bridge construction projects with lump sum items for roadway deck. The fill-in specifies work items included in the bid item. Include with **02401.FB6**.
(1 fill-in)

[02502.GB6](#)

(Expansion Joint System)
(June 26, 2000)
Use in projects with strip seal or compression seal expansion joint systems when the unit contract bid item "Expansion Joint System _____ Seal - Superstr." is used to pay for the work. Include with **02402.FB6**, and either **02221.GB6**, **023132.GB6**, and **070304.GB6**, or **02222.GB6** and **023133.GB6**.

[02508.GB6](#)

(Bridge Bearing Assembly)
(June 26, 2000)
Use in projects with bridge bearing assemblies. Include with **02408.FB6**. Include with **02230.GB6**, **02319B1.GB6**, and **0303301.FB6** for fabric pad bearings.

[02510.GB6](#)

(Epoxy Crack Sealing)
(June 26, 2000)
Use in projects which require sealing cracks in existing concrete with injected epoxy resin. Include with **02209.GB6**, **023001.GB6**, and **02410.GB6**.

1	<u>02511.GB6</u>	(Bridge Grate Inlet)
2		(June 26, 2000)
3		Use in projects with bridge grate inlets. Include with
4		02245.GB6 and 02411.GB6 .
5		
6	<u>02512.GB6</u>	(Modify Bridge Drain)
7		(June 26, 2000)
8		Use in projects where modifying bridge drains is a
9		stand-alone bid item. Include with 02246.GB6 ,
10		02310D3.GB6 , and 02412.GB6 with modified concrete
11		overlay projects. Include the above with 02310D4.GB6
12		with membrane waterproofing and ACP overlay
13		projects.
14		
15	<u>02513.GB6</u>	(Plugging Existing Bridge Drain)
16		(June 26, 2000)
17		Use in projects where plugging existing bridge drains is
18		a stand-alone bid item. Include with 02310D5.GB6
19		and 02413.GB6 .
20		
21	<u>02514.FB6</u>	(Modifying or Plugging Existing Bridge Drain)
22		(June 26, 2000)
23		Use in projects where payment for modifying or
24		plugging existing bridge drains is included under either
25		“Membrane Waterproofing (Deck Seal)” or “Finishing
26		and Curing Modified Conc. Overlay”. The first fill-in
27		specifies whether the work is modifying or plugging
28		existing bridge drains. The second fill-in specifies
29		appropriate pay item for the work. Include with
30		02246.GB6 , and 02310D3.GB6 for modifying bridge
31		drains with modified concrete overlay projects. Include
32		the above with 02310D4.GB6 for modifying bridge
33		drains with membrane waterproofing and ACP overlay
34		projects. Include with 02310D5.GB6 for plugging
35		existing bridge drains.
36		(2 fill-ins)
37		
38	<u>02515.GB6</u>	(Bridge Deck Repair)
39		(June 26, 2000)
40		Use in projects where bridge deck repair is required
41		and when the volume of work can be determined from
42		deck survey data (except not required for bridge deck
43		overlay projects with modified concrete). Include with
44		02250.GB6 , 02310D6.GB6 , and 02415.GB6 .
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[030315.GB6](#)

Planing of Bearing Surfaces

[0303151.GB6](#)

(Planing Bearing End of Stiffeners)
(June 26, 2000)

Use in projects with new steel bridges. Include with **030328B1.GB6**, **0303301.FB6**, **0303391.GB6**, **03041.FB6**, and **0305A1.GB6**.

[030328.GB6](#)

Shop Assembly

[030328A.GB6](#)

Method of Shop Assembly

[030328A1.GB6](#)

(Progressive Transverse Shop Assembly)
(August 4, 2003)

Use in projects with new steel girder bridges that have curved or skewed geometry, with the concurrence of the Bridge and Structures Office Steel Specialist. Include with **0303151.GB6**, **030328B1.GB6**, **0303301.FB6**, **0303391.GB6**, **03041.FB6**, and **0305A1.GB6**.

[030328B.GB6](#)

Check of Shop Assembly

[030328B1.GB6](#)

(Check of Shop Assembly)
(June 26, 2000)

Use in projects with new steel bridges. Include with **0303151.GB6**, **0303301.FB6**, **0303391.GB6**, **03041.FB6**, and **0305A1.GB6**.

[030330.GB6](#)

Painting

[0303301.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 Federal Standard 595B Color Number, or the color name if no number. Include with **0303151.GB6**, **030328B1.GB6**, **0303391.GB6**, **03041.FB6**, and **0305A1.GB6**.

Also include in projects with new minor steel items such as steel expansion joints (**02031301.FB6**) and bearings (**020317.FB6**).
(1 fill-in)

[030338.GB6](#)

Placing Superstructure

1	0303381.GB6	(Concrete Protection)
2		(June 26, 2000)
3		Use with in projects with bridges having weathering
4		steel superstructure members which remain unpainted
5		at completion of construction, and which are above
6		concrete surfaces which require protection from
7		staining while the steel members develop their
8		weathered protective surface. Include with
9		0305B1.FB6 .
10		
11	030339.GB6	Swinging the Span
12		
13	0303391.GB6	(Girder Camber Field Measurements)
14		(June 26, 2000)
15		Use in projects with new steel bridges. Include with
16		0303151.GB6, 030328B1.GB6, 0303301.FB6,
17		03041.FB6, and 0305A1.GB6.
18		
19	0304.GB6	Measurement
20		
21	03041.FB6	(Structural Low Alloy Quantities)
22		(August 6, 2007)
23		Use in projects with new steel bridges. Include with
24		0303151.GB6, 030328B1.GB6, 0303301.FB6, and
25		0303391.GB6. Include with 0305A1.GB6 when the steel
26		girder includes a pipe railing.
27		(2 fill-ins)
28		
29	0305.GB6	Payment
30		
31	0305A.GB6	<i>Use preceding 0305A1.GB6 only.</i>
32		
33	0305A1.GB6	(Payment for Steel Girder Railing)
34		(August 6, 2007)
35		Use in projects with new steel bridges when the steel
36		girder includes a pipe railing. Include with
37		0303151.GB6, 030328B1.GB6, 0303301.FB6,
38		0303391.GB6, and 03041.FB6.
39		
40	0305B.GB6	<i>Use preceding the following:</i>
41		
42	0305B1.FB6	(Payment for Concrete Protection)
43		(June 26, 2000)
44		Use in projects with bridges having weathering steel
45		members which remain unpainted at the completion of
46		construction, and which are above concrete surfaces
47		which require protection from staining while the steel
48		members develop their weathered protective surface.
49		Include with 0303381.GB6.
50		(1 fill-in)
51		
52	04.GB6	TIMBER STRUCTURES
53		
54	0403.GB6	Construction Requirements
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[040301.GB6](#) **Storing and Handling Material**

[0403011.GB6](#) (Fire Prevention)
(March 6, 2000)
Use in all timber bridge construction and timber deck replacement projects. Include with **04051.FB6**.

[0403121.GB6](#) (Top Flange Treatment)
(March 6, 2000)
Include in timber redecking projects. Include with **0403011.GB6, 04051.FB6, and 04052.FB6**.

[0405.GB6](#) **Payment**

[04051.FB6](#) (Fire Protection)
(March 6, 2000)
Use in all timber bridge construction and timber deck replacement projects. Include with **0403011.GB6**.
(1 fill-in)

[04052.FB6](#) (Top Flange Treatment)
(March 6, 2000)
Use in timber deck replacement projects. Include with **0403011.GB6, 0403121.GB6, and 04051.FB6**.
(1 fill-in)

[05.GB6](#) **PILING**

[0503.GB6](#) **Construction Requirements**

[050310.GB6](#) **Test Piles**

[0503101.FB6](#) (Furnishing and Driving Test Piles)
(March 6, 2000)
Include in projects having test piles, as recommended by the Materials Laboratory Geotechnical Branch. 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)

[050311.GB6](#) **Driving Piles**

[050311D.GB6](#) **Achieving Minimum Tip Elevation and Bearing**

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[050311D1.FB6](#)

(Minimum Pile Tip Elevation)
(March 6, 2000)
Include in projects which have a minimum pile tip elevation specified, as recommended by the Materials Laboratory Geotechnical Branch. 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).
(2 fill-ins)

[050311D2.GB6](#)

(Vibration From Pile Driving)
(March 6, 2000)
Include in projects where minimizing vibration from driving piles is critical, as recommended by the Materials Laboratory Geotechnical Branch.

[050311D3.FB6](#)

(Preboring Piles)
(March 6, 2000)
Include in projects where preboring of piles is required to prevent downdrag from settlement, as recommended by the Materials Laboratory Geotechnical Branch. 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 **05041.FB6 and 05051.FB6**.
(3 fill-ins)

[050311D4.FB6](#)

(Preboring Piles)
(March 6, 2000)
Include in projects where preboring of piles is required, as recommended by the Materials Laboratory Geotechnical Branch. 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 **05041.FB6 and 05051.FB6**.
(3 fill-ins)

[0504.GB6](#)

Measurement

[05041.FB6](#)

(Preboring Piles)
(March 6, 2000)
Use in projects where preboring of piles is required, as recommended by the Materials Laboratory Geotechnical Branch. The fill-in specifies the pile type (cast-in-place conc., steel, timber, etc.). Include with **050311D3.FB6 or 050311D4.FB6, and 05051.FB6**.
(1 fill-in)

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0505.GB6

Payment

05051.FB6

(Preboring Piles)
(March 6, 2000)
Use in projects where preboring of piles is required, as recommended by the Materials Laboratory Geotechnical Branch. Both fill-ins specify the pile type (cast-in-place conc., steel, timber, etc.). Include with **050311D3.FB6 or 050311D4.FB6, and 05041.FB6.**
(2 fill-ins)

06.GB6

BRIDGE RAILINGS

0602.GB6

Materials

06021.GB6

(Bridge Railing Type Chain Link Fence)
(January 5, 2004)
Use in projects with Bridge Railing Type Chain Link Fence. Include with **0221.GR6, 02318.GR6, and 0603021.GB6.** Also include **06051.FB6** if the work is included as part of a separate bid item such as "Superstructure - ____", or "Roadway Deck - ____".

06022.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 **0221.GR6, 02318.GR6, 06021.GB6 and 0603022.GB6.** Also include **06051.FB6** if the work is included as part of a separate bid item such as "Superstructure - ____", or "Roadway Deck - ____".

0603.GB6

Construction Requirements

060302.GB6

Metal Railings

0603021.GB6

(Bridge Railing Type Chain Link Fence)
(March 6, 2000)
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 **0221.GR6, 02318.GR6, and 06021.GB6.** Also include **06051.FB6** if the work is included as part of a separate bid item such as "Superstructure - ____", or "Roadway Deck - ____".

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[0603022.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 **0221.GR6, 02318.GR6, 06021.GB6 and 06022.GB6**. Also include **06051.FB6** if the work is included as part of a separate bid item such as "Superstructure - ____", or "Roadway Deck - ____".

[0605.GB6](#)

Payment

[06051.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)

[07.GB6](#)

PAINTING

[0701.GB6](#)

Description

[07011.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 **DESWORK2.FB1 and 070310I1.FB6**. Include with **07012.FR1** if the existing bridge(s) contain lead paint. Include with **070632.GB1** if the bridge(s) cross a navigable waterway.
(2 fill-ins)

[07012.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 **07012.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)

[0703.GB6](#)

Construction Requirements

[070310.GB6](#)

Painting Existing Steel Structures

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[0703101.GB6](#)

Must use once, preceding one of the following:

[07031011.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, 07011.FB6 and 07031011.FB6.**
(1 fill-in)

[07031012.GB6](#)

(Light Fixtures)
(August 3, 2009)
Include only when light fixtures are attached to existing bridge(s) being painted. Include with **DESWORK2.FB1, 07011.FB6 and 07031011.FB6.**

[07031013.GB6](#)

(Railroad Facilities)
(August 3, 2009)
Include when paint could spill or drip on railroad right-of-way. Include with **DESWORK2.FB1, 07011.FB6, 07182.FR1, either 07183.GR1 or 07184.GR1, and 07031011.FB6.**

[07031014.GB6](#)

(Cleaning Grid Deck)
(August 3, 2009)
Use with **DESWORK2.FB1, 07011.FB6, 07031011.FB6, and 070310N1.GB6** if the bridge has a grid roadway deck or steel grid catwalks which require cleaning and painting.

[070310A.GB6](#)

Containment

[070310A1.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, 07011.FB6 and 07031011.FB6.**

[070310I.GB6](#)

Paint Color

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[080211.GB6](#)

(Membrane Waterproofing Primer and Asphalt)
(April 5, 2004)
Use in all projects placing membrane waterproofing on bridge decks prior to asphalt concrete pavement overlay. Include with **08011.GB6, 080221.GB6, 0803021.GB6, 0803031.GB6, 0803041.GB6, 08041.GB6, and 08051.GB6.**

[08022.GB6](#)

Waterproofing Fabric

[080221.GB6](#)

(Membrane Waterproofing Membrane)
(August 4, 2008)
Use in all projects placing membrane waterproofing on bridge decks prior to asphalt concrete pavement overlay. Include with **08011.GB6, 080211.GB6, 0803021.GB6, 0803031.GB6, 0803041.GB6, 08041.GB6, and 08051.GB6.**

[0803.GB6](#)

Construction Requirements

[080302.GB6](#)

Preparation of Surface

[0803021.GB6](#)

(Surface Preparation)
(August 2, 2004)
Use in all projects placing membrane waterproofing on bridge decks prior to asphalt concrete pavement overlay. Include with **08011.GB6, 080211.GB6, 080221.GB6, 0803031.GB6, 0803041.GB6, 08041.GB6, and 08051.GB6.**

[080303.GB6](#)

Application of Waterproofing

[0803031.GB6](#)

(Applying Membrane Waterproofing)
(August 2, 2004)
Use in all projects placing membrane waterproofing on bridge decks prior to asphalt concrete pavement overlay. Include with **08011.GB6, 080211.GB6, 080221.GB6, 0803021.GB6, 0803041.GB6, 08041.GB6, and 08051.GB6.**

[080304.GB6](#)

Protection Course

[0803041.GB6](#)

(Membrane Protection and Asphalt Overlay)
(August 2, 2004)
Use in all projects placing membrane waterproofing on bridge decks prior to asphalt concrete pavement overlay. Include with **08011.GB6, 080211.GB6, 080221.GB6, 0803021.GB6, 0803031.GB6, 08041.GB6, and 08051.GB6.**

[084.GB6](#)

Measurement

1	08041.GB6	(Membrane Waterproofing (Deck Seal))
2		(March 6, 2000)
3		Use in all projects placing membrane waterproofing on
4		bridge decks prior to asphalt concrete pavement overlay.
5		Include with 08011.GB6, 080211.GB6, 080221.GB6,
6		0803021.GB6, 0803031.GB6, 0803041.GB6, and
7		08051.GB6.
8		
9	0805.GB6	Payment
10		
11	08051.GB6	(Membrane Waterproofing (Deck Seal))
12		(August 2, 2004)
13		Use in all projects placing membrane waterproofing on
14		bridge decks prior to asphalt concrete pavement overlay.
15		Include with 08011.GB6, 080211.GB6, 080221.GB6,
16		0803021.GB6, 0803031.GB6, 0803041.GB6, and
17		08041.GB6.
18		
19	09.GB6	MODIFIED CONCRETE OVERLAYS
20		
21	0903.GB6	Construction Requirements
22		
23	090303.GB6	Concrete Overlay Mixes
24		
25	09030301.GB6	(FMC, LMC, and MMC)
26		(January 7, 2002)
27		Use in modified concrete overlay projects where all
28		three concrete overlay mixes are allowed. Include with
29		either 09030502.GB6 or and 09030501.GB6.
30		
31	09030302.GB6	(FMC or LMC Only)
32		(January 7, 2002)
33		Use in modified concrete overlay projects where only
34		fly ash modified concrete or latex modified concrete
35		overlay mixes are allowed. Include with either
36		09030502.GB6 or 09030501.GB6.
37		
38	09030303.GB6	(LMC Only)
39		(January 7, 2002)
40		Use in modified concrete overlay projects where only
41		latex modified concrete overlay mixes are allowed.
42		Include with either 09030502.GB or 09030501.GB6.
43		
44	090305.GB6	Scarifying Concrete Surface
45		
46	09030501.GB6	(Rotary Mill, Hydro-Demolisher, or Shot Blaster)
47		(January 7, 2002)
48		Include in modified concrete overlay projects where all
49		three types of scarifying machines are allowed. Include
50		with either 09030301.GB6, 09030302.GB6, or
51		09030303.GB6.
52		

1	120202.FB6	(Masonry Noise Barrier Walls)
2		(April 7, 2008)
3		Use in projects with noise barrier walls of masonry block
4		panels. The fill-in describes the surface texture and color
5		requirements for the field, cap, accent, and other CMU
6		blocks used for the masonry wall. Include with
7		12030701.GB6 and all other applicable noise barrier
8		wall GSP's.
9		(1 fill-in)
10		
11	120203.FB6	(Noise Barrier Wall Access Door)
12		(August 3, 2009)
13		Use in projects with noise barrier walls with access doors.
14		The fill-in specifies the Federal Standard 595B color
15		number, or the color name if no number, for the paint color
16		of the door and door frame.
17		(1 fill-in)
18		
19	1203.GB6	Construction Requirements
20		
21	120301.GB6	Submittals
22		
23	12030101.GB6	(Noise Barrier Wall Existing Groundline Field Survey)
24		(April 5, 2004)
25		Use in noise barrier wall projects where the Contractor
26		is required to perform and submit a field survey of the
27		existing noise barrier wall alignment. Include with
28		050411.GR1, 12051.GB6, and all other applicable
29		noise barrier wall GSP's.
30		
31	120306.GB6	Precast Concrete Panel Fabrication and
32		Erection
33		
34	12030601.FB6	(Precast Concrete Panel Surface Finish Requirements)
35		(April 5, 2004)
36		Use in projects with noise barrier walls of precast
37		concrete panels. The fill-ins specify the type or name
38		of the formed finish on the traffic side and on the
39		residential side of the precast concrete panels. Include
40		with 120201.GB6 and all other applicable noise
41		barrier wall GSP's.
42		(2 fill-ins)
43		
44	120307.GB6	Masonry Wall Construction
45		
46	12030701.GB6	(Masonry Noise Barrier Wall Construction
47		Requirements)
48		(April 6, 2009)
49		Use in projects with noise barrier walls of masonry
50		block panels. Include with 120202.FB6 and all other
51		applicable noise barrier wall GSP's.

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[1205.GB6](#)

Payment

[12051.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 **050411.GR1, 12030101.GB6, and all other applicable noise barrier wall GSP's.**

[12052.GB6](#)

(Payment for Removing Noise Barrier Wall Shaft Obstructions)
(April 5, 2004)
Use in projects with noise barrier walls with shaft foundations.

[13.GB6](#)

STRUCTURAL EARTH WALLS

[1302.GB6](#)

Materials

[130201.GB6](#)

(Welded Wire Faced Structural Earth Wall Materials)
(August 3, 2009)
Use in projects with structural earth walls where welded wire faced walls are an acceptable alternative. Include with **13031.GB6 and 13030201.FB6.**

[130202.GB6](#)

(Precast Concrete Panel Faced Structural Earth Wall Materials)
(August 3, 2009)
Use in projects with structural earth walls where precast concrete panel faced walls are an acceptable alternative. Include with **13032.GB6, 13030201.FB6, 13030401.GB6, 13030501.GB6, and 13030701.GB6.**

[130203.GB6](#)

(Concrete Block Faced Structural Earth Wall Materials)
(August 3, 2009)
Use in projects with structural earth walls where concrete block faced walls are an acceptable alternative. Include with **13033.GB6, 13030201.FB6, and 13030502.GB6.**

[1303.GB6](#)

Construction Requirements

[13031.GB6](#)

(Welded Wire Faced Structural Earth Wall)
(April 3, 2006)
Use in projects with structural earth walls where welded wire faced walls are an acceptable alternative. Include with **130201.GB6 and 13030201.FB6.**

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[13032.GB6](#)

(Precast Concrete Panel Faced Structural Earth Wall)

(April 4, 2005)

Use in projects with structural earth walls where precast concrete panel faced walls are an acceptable alternative. Include with **130202.GB6, 13030201.FB6, 13030401.GB6, 13030501.GB6, and 13030701.GB6.**

[13033.GB6](#)

(Concrete Block Faced Structural Earth Wall)

(April 5, 2004)

Use in projects with structural earth walls where concrete block faced walls are an acceptable alternative. Include with **130203.GB6, 13030201.FB6, and 13030502.GB6.**

[130302.GB6](#)

Submittals

[13030201.FB6](#)

(Structural Earth Wall Geotechnical Design Parameters)

(April 5, 2004)

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)

[130304.GB6](#)

Precast Concrete Facing Panel and Concrete Block Fabrication

[13030401.GB6](#)

(Specific Fabrication Requirements for Precast Concrete Panel Faced Structural Earth Walls)

(April 7, 2008)

Use in projects with structural earth walls where precast concrete panel faced walls are an acceptable alternative. Include with **130202.GB6, 13032.GB6, 13030201.FB6, 13030501.GB6, and 13030701.GB6.**

[130305.GB6](#)

Precast Concrete Facing Panel and Concrete Block Erection

[13030501.GB6](#)

(Specific Erection Requirements for Precast Concrete Panel Faced Structural Earth Walls)

(April 5, 2004)

Use in projects with structural earth walls where precast concrete panel faced walls are an acceptable alternative. Include with **130202.GB6, 13032.GB6, 13030201.FB6, 11030401.GB6, and 13030701.GB6.**

1	150308A1.FB6	(Soil Nail Verification Test Locations)
2		(April 5, 2004)
3		Use in projects with soil nail retaining walls. The
4		fill-ins specify the soil nail verification test locations
5		and the number of successful tests required at
6		each location. Include with 150201.GB6 and
7		180201.GB6.
8		(3 fill-ins)
9		
10	16.GB6	SOLDIER PILE WALLS AND SOLDIER PILE TIEBACK
11		WALLS
12		
13	1605.GB6	Payment
14		
15	160501.GB6	(Payment for Removing Soldier Pile Shaft
16		Obstructions)
17		(April 5, 2004)
18		Use in projects with soldier pile and soldier pile tieback
19		retaining walls. Include with 170201.GB6 for all soldier pile
20		tieback wall projects.
21		
22	17.GB6	PERMANENT GROUND ANCHORS
23		
24	1702.GB6	Materials
25		
26	170201.GB6	(Permanent Ground Anchor Materials and
27		Components)
28		(December 4, 2006)
29		Use in projects with walls using permanent ground
30		anchors.
31		
32	1703.GB6	Construction Requirements
33		
34	170308.GB6	Testing And Stressing
35		
36	170308A.GB6	Verification Testing
37		
38	170308A1.GB6	(January 7, 2008)
39		Use in projects with permanent ground anchors
40		where the soil conditions require a verification
41		testing program for the permanent ground anchors
42		as recommended by the WSDOT Materials
43		Laboratory Geotechnical Services Division.
44		Include with 170308B1.GB6 and 170308C1.GB6.
45		
46	170308B.GB6	Performance Testing
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[170308B1.GB6](#)

(August 1, 2005)
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 WSDOT Materials Laboratory Geotechnical Services Division. Include with **170308A1.GB6 and 170308C1.GB6**.

[170308C.GB6](#)

Proof Testing

[170308C1.GB6](#)

(August 1, 2005)
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 WSDOT Materials Laboratory Geotechnical Services Division. Include with **170308A1.GB6 and 170308B1.GB6**.

[18.GB6](#)

SHOTCRETE FACING

[1802.GB6](#)

Materials

[180201.GB6](#)

(Shotcrete Facing)
(August 1, 2005)
Use in projects with shotcrete facing. Include with **150201.GB6 and 150308A1.FB6** for all soil nail retaining wall projects.

[180202.GB6](#)

(Coloration for Shotcrete Facing Finishing Alternative C)
(April 5, 2004)
Use in projects with shotcrete facing where tinting of the finish coating of shotcrete is required. Include with **150201.GB6, 150308A1.FB6, and 180201.GB6** for all soil nail retaining wall projects with such requirements.