DIVISION 5.GR5  Surface Treatments and Pavements

5-01.GR5  Cement Concrete Pavement Rehabilitation

5-01.3.GR5  Construction Requirements

5-01.3(9).GR5  Portland Cement Concrete Pavement Grinding

(Section 5-01.3(9) is supplemented with the following)
Must use once preceding any of the following:

5-01.3(9).OPT1.GR5  (April 1, 2013)
Use in projects that require 10,000 or more square yards of cement concrete pavement grinding.

5-01.5.GR5  Payment

(Section 5-01.5 is supplemented with the following)
Must use once preceding any of the following:

5-01.5.OPT1.GR5  (April 3, 2006)
Must include with 5-01.3(1)A.OPT1.GR5, 5-05.3(1)A.OPT7.GR5, 5-05.5.OPT1.GR5, 6-02.3.OPT3.GB6, 6-02.5.OPT3.GB6, 8-01.3(1)A.OPT1.GR8, and 8-01.5.OPT1.GR8.

5-02.GR5  Bituminous Surface Treatment

5-02.3.GR5  Construction Requirements

5-02.3(3).GR5  Application Of Asphalt Emulsion and Aggregate

(Section 5-02.3(3) is supplemented with the following)
Must use once preceding any of the following:

5-02.3(3).OPT1.FR5  (BST New Construction)
(August 5, 2013)
May use with 5-02.3(3).OPT2.FR5.
Use in projects requiring a Bituminous Surface Treatment on a newly constructed roadway.
(2 fill-ins)

5-02.3(3).OPT2.FR5  (BST Seal Coat)
(August 5, 2013)
May use with 5-02.3(3).OPT1.FR5.
Use in projects requiring a Bituminous Surface Treatment seal coat on an existing roadway.
(1 fill-in)

5-02.4.GR5  Measurement

5-02.4.INST1.GR5  (Section 5-02.4 is supplemented with the following)
Must use once preceding any of the following:
5-02.4.OPT2.GR5  (BST existing road approaches)  
(March 13, 1995)  
Must also use 5-02.5.OPT2.GR5.  
Use in BST projects when there are a substantial number 
of existing road approaches to be paved and the extra 
cost of labor for paving approaches becomes a factor in 
determining the bid price for BST.

5-02.5.GR5  Payment  

5-02.5.INST1.GR5  (Section 5-02.5 is supplemented with the following)  
Must use once preceding any of the following:

5-02.5.OPT2.GR5  (Bituminous Surface Treatment For Road Approach)  
(February 5, 2001)  
Must include with 5-02.4.OPT2.GR5.  
Use in BST projects when there are a substantial number 
of existing road approaches to be paved and the extra 
cost of labor for paving approaches becomes a factor in 
determining the bid price for BST.

5-02.5.OPT3.GR5  (CRS-2P Cost Price Adjustment Payment)  
(August 5, 2013)  
Include in all BST projects.  
Must include standard item #5294.  
To determine the Engineers Estimate for this bid item, 
refer to the guidance at:  
http://www.wsdot.wa.gov/Projects/ProjectMgmt/RiskAsses 
sment/Information.htm

5-04.GR5  Hot Mix Asphalt  

5-04.1.GR5  Description  

5-04.1.INST1.GR5  (Section 5-04.1 is supplemented with the following)  
Must use once preceding any of the following:

5-04.1.OPT1.GR5  (Bridge Transverse Joint Seal)  
(August 1, 2011)  
Must use with 5-04.2.OPT14.GR5, 5-04.3.OPT8.GR5, 5- 
04.4.OPT4.GR5, and 5-04.5.OPT4.GR5.  
Include in all projects requiring a Bridge Transverse Joint 
Seal where HMA abuts a bridge deck or HMA overlays a 
bridge deck. Consultation with the Bridge and Structures 
Office is advised.

5-04.2.GR5  Materials  

5-04.2.INST2.GR5  (Section 5-04.2 is revised to read)  
Must use once preceding the following:
5-04.2.OPT8.GR5 (Utilizes recycled asphalt pavement (RAP) or reclaimed asphalt shingles (RAS) in production HMA)
(January 6, 2014)
Use in all HMA paving projects. Headquarters Construction Office approval required to not use. This provision allows the use of recycled asphalt pavement (RAP) or reclaimed asphalt shingles (RAS) in the production of HMA.
Must use with 5-04.2(9-02.1).OPT1.GR5, 5-04.2(9-02.1(4)).OPT1.GR5, 5-04.2(9-03.8(2)).OPT1.GR5, 5-04.2(9-03.8(3)B).OPT1.GR5, 5-04.2(9-03.21(1)).OPT1.GR5, 5-04.3(1).OPT1.GR5, 5-04.3(7).OPT1.GR5, 5-04.3(7)A1.OPT1.GR5, 5-04.3(7)A2.OPT1.GR5, 5-04.3(7)A3.OPT2.GR5, and 5-04.3(8).OPT1.GR5, 5-04.3(8)A7.OPT2.GR5.

5-04.2.INST3.GR5 (Section 5-04.2 is supplemented with the following)
Must use once preceding the following:

5-04.2.OPT13.FR5 (HMA Test Requirements)
(January 3, 2011)
Include in all projects using HMA.
Fill-in (number of ESAL’s) is included in the pavement design report.
(1 fill-in)

5-04.2.OPT14.GR5 (Bridge Transverse Joint Seal)
(August 1, 2011)
Must use with 5-04.1.OPT1.GR5, 5-04.3.OPT8.GR5, 5-04.4.OPT4.GR5, and 5-04.5.OPT4.GR5.
Include in all projects requiring a Bridge Transverse Joint Seal.

5-04.2(9-02.1).GR5 Asphalt Material, General
(Section 9-02.1 is supplemented with the following)

5-04.2(9-02.1).OPT1.GR5 (Utilizes recycled asphalt pavement (RAP) or reclaimed asphalt shingles (RAS) in production HMA)
(August 4, 2014)
Use in all HMA paving projects. Headquarters Construction Office approval required to not use. This provision allows the use of recycled asphalt pavement (RAP) or reclaimed asphalt shingles (RAS) in the production of HMA.
Must use with 5-04.2.OPT8.GR5, 5-04.2(9-02.1(4)).OPT1.GR5, 5-04.2(9-03.8(2)).OPT1.GR5, 5-04.2(9-03.8(3)B).OPT1.GR5, 5-04.2(9-03.21(1)).OPT1.GR5, 5-04.3(1).OPT1.GR5, 5-04.3(7).OPT1.GR5, 5-04.3(7)A1.OPT1.GR5, 5-04.3(7)A2.OPT1.GR5, 5-04.3(7)A3.OPT2.GR5, and 5-04.3(8).OPT1.GR5, 5-04.3(8)A7.OPT2.GR5.

5-04.2(9-02.1(4)).GR5 Performance Graded Asphalt Binder (PGAB)
(Section 9-02.1(4) is supplemented with the following)
5-04.2(9-03.8(2)).GR5  HMA Test Requirements
(Section 9-03.8(2) after the first paragraph is revised to read)

5-04.2(9-03.8(2)).OPT1.GR5  (Utilizes recycled asphalt pavement (RAP) or reclaimed asphalt shingles (RAS) in production HMA)
(March 3, 2014)
Use in all HMA paving projects. Headquarters Construction Office approval required to not use. This provision allows the use of recycled asphalt pavement (RAP) or reclaimed asphalt shingles (RAS) in the production of HMA.
Must use with 5-04.2.OPT8. GR5, 5-04.2(9-02.1).OPT1.GR5, 5-04.2(9-02.1(4)).OPT1.GR5, 5-04.2(9-03.8(2)).OPT1.GR5, 5-04.2(9-03.21(1)).OPT1.GR5, 5-04.3(1).OPT1.GR5, 5-04.3(7).OPT1.GR5, 5-04.3(7)A1.OPT1.GR5, 5-04.3(7)A2.OPT1.GR5, 5-04.3(7)A3.OPT2.GR5, 5-04.3(8).OPT1.GR5, and 5-04.3(8)A7.OPT2.GR5.

5-04.2(9-03.8(3)B).GR5  Gradation – Recycled Asphalt Pavement and Mineral Aggregate
(Section 9-03.8(3)B is supplemented with the following)

5-04.2(9-03.8(3)B).OPT1.GR5  (Utilizes recycled asphalt pavement (RAP) or reclaimed asphalt shingles (RAS) in production HMA)
(August 6, 2012)
Use in all HMA paving projects. Headquarters Construction Office approval required to not use. This provision allows the use of recycled asphalt pavement (RAP) or reclaimed asphalt shingles (RAS) in the production of HMA.
Must use with 5-04.2.OPT8. GR5, 5-04.2(9-02.1).OPT1.GR5, 5-04.2(9-02.1(4)).OPT1.GR5, 5-04.2(9-03.8(2)).OPT1.GR5, 5-04.2(9-03.21(1)).OPT1.GR5, 5-04.3(1).OPT1.GR5, 5-04.3(7).OPT1.GR5, 5-04.3(7)A1.OPT1.GR5, 5-04.3(7)A2.OPT1.GR5, 5-04.3(7)A3.OPT2.GR5, 5-04.3(8).OPT1.GR5, and 5-04.3(8)A7.OPT2.GR5.
04.3(7)A3.OPT2.GR5, 5-04.3(8).OPT1.GR5, and 5-04.3(8)A7.OPT2.GR5.

5-04.2(9-03.21(1)).GR5 General Requirements

(Section 9-03.21(1) is supplemented with the following)

5-04.2(9-03.21(1)).OPT1.GR5 (Utilizes recycled asphalt pavement (RAP) or reclaimed asphalt shingles (RAS) in production HMA)
(August 6, 2012)
Use in all HMA paving projects. Headquarters Construction Office approval required to not use. This provision allows the use of recycled asphalt pavement (RAP) or reclaimed asphalt shingles (RAS) in the production of HMA.

Must use with 5-04.2.OPT8.GR5, 5-04.2(9-02.1).OPT1.GR5, 5-04.2(9-02.1(4)).OPT1.GR5, 5-04.2(9-03.8(2)).OPT1.GR5, 5-04.2(9-03.8(3)B).OPT1.GR5, 5-04.3(1).OPT1.GR5, 5-04.3(7).OPT1.GR5, 5-04.3(7)A1.OPT1.GR5, 5-04.3(7)A2.OPT1.GR5, 5-04.3(7)A3.OPT2.GR5, 5-04.3(8).OPT1.GR5, and 5-04.3(8)A7.OPT2.GR5.

5-04.3.GR5 Construction Requirements

5-04.3.INST1.GR5 (Section 5-04.3 is supplemented with the following)
Must use once preceding any of the following:

5-04.3.OPT8.GR5 (Bridge Transverse Joint Seal)
(August 1, 2011)
Must use with 5-04.1.OPT1.GR5, 5-04.2.OPT14.GR5, 5-04.4.OPT4.GR5, and 5-04.5.OPT4.GR5.
Include in all projects requiring a Bridge Transverse Joint Seal.

5-04.3(1).GR5 HMA Mixing Plant

5-04.3(1).INST1.GR5 (Section 5-04.3(1) is supplemented with the following)
Must use once preceding any of the following:

5-04.3(1).OPT1.GR5 (Utilizes recycled asphalt pavement (RAP) or reclaimed asphalt shingles (RAS) in production HMA)
(November 12, 2012)
Use in all HMA paving projects. Headquarters Construction Office approval required to not use. This provision allows the use of recycled asphalt pavement (RAP) or reclaimed asphalt shingles (RAS) in the production of HMA.

Must use with 5-04.2.OPT8.GR5, 5-04.2(9-02.1).OPT1.GR5, 5-04.2(9-02.1(4)).OPT1.GR5, 5-04.2(9-03.8(2)).OPT1.GR5, 5-04.2(9-03.8(3)B).OPT1.GR5, 5-04.2(9-03.21(1)).OPT1.GR5, 5-04.3(7).OPT1.GR5, 5-04.3(7)A1.OPT1.GR5, 5-
Hot Mix Asphalt Pavers

Must use once preceding any of the following:

Reference line required for paver

Use in projects with a 70 MPH or higher design speed, except when the paving will be done under traffic.

(Material Transfer Device/Vehicle)

Use in projects containing Hot Mix Asphalt when the Region Materials Lab recommends that a MTD/V not be used. Use requires approval of the Region Construction Office. MTD/V’s are not recommended for projects with small quantities of HMA or when the paving is limited to areas where there is insufficient room for the MTD/V in the paving train.

(Material Transfer Vehicle)

Use in projects containing Hot Mix Asphalt when only an MTV is to be used (no MTD). Use requires approval of the Region Construction Office.

Conditioning of Existing Surface

Crack Sealing

Must use once preceding any of the following:

At the discretion of the Region use this specification if rubberized sealant is required for crack sealing. The Plans need to identify where rubberized joint sealant is to be used and where sand slurry is to be used.
5-04.3(5)C.OPT7.GR5 (January 7, 2013)
At the discretion of the North Central, Eastern and South Central Regions, use on paving projects with pre-level or multiple courses.

5-04.3(5)C.OPT8.GR5 (January 7, 2013)
At the discretion of the Northwest, Olympic and Southwest Regions, use on paving projects with pre-level or multiple courses.

5-04.3(7).GR5 Preparation of Aggregates

5-04.3(7).INST1.GR5 (Section 5-04.3(7) is revised to read)
Must use once preceding any of the following:

5-04.3(7).OPT1.GR5 (Utilizes recycled asphalt pavement (RAP) or reclaimed asphalt shingles (RAS) in production HMA)
(August 6, 2012)
Use in all HMA paving projects. Headquarters Construction Office approval required to not use. This provision allows the use of recycled asphalt pavement (RAP) or reclaimed asphalt shingles (RAS) in the production of HMA.
Must use with 5-04.2.OPT8.GR5, 5-04.2(9-02.1).OPT1.GR5, 5-04.2(9-02.1(4)).OPT1.GR5, 5-04.2(9-03.8(2)).OPT1.GR5, 5-04.2(9-03.8(3)B).OPT1.GR5, 5-04.2(9-03.21(1)).OPT1.GR5, 5-04.3(1).OPT1.GR5, 5-04.3(7).A1.OPT1.GR5, 5-04.3(7).A2.OPT1.GR5, 5-04.3(7).A3.OPT2.GR5, 5-04.3(8).OPT1.GR5, and 5-04.3(8).A7.OPT2.GR5.

5-04.3(7)A.GR5 Mix Design

5-04.3(7)A.INST1.GR5 (Section 5-04.3(7)A is supplemented with the following)
Must use once preceding any of the following:

5-04.3(7)A.OPT1.GR5 (Mix Design Verification)
(January 7, 2013)
Use at the discretion of the Region. Consider using when paving is a critical activity and contract time does not include working days for HMA mix design/anti-strip evaluation report. Not recommended for use on projects with adequate time for mix design/anti-strip evaluation report prior to HMA placement, or when other mechanisms (such as a flexible start date) allow verification to be performed without causing a delay to critical paving activities.

5-04.3(7)A1.GR5 General
5-04.3(7)A1.INST1.GR5 (Section 5-04.3(7)A1 is supplemented with the following)
Must use once preceding any of the following:

5-04.3(7)A1.OPT1.GR5 (Utilizes recycled asphalt pavement (RAP) or reclaimed asphalt shingles (RAS) in production HMA)
(August 4, 2014)
Use in all HMA paving projects. Headquarters Construction Office approval required to not use.
This provision allows the use of recycled asphalt pavement (RAP) or reclaimed asphalt shingles (RAS) in the production of HMA.
Must use with 5-04.2.OPT8.GR5, 5-04.2(9-02.1).OPT1.GR5, 5-04.2(9-02.1(4)).OPT1.GR5, 5-04.2(9-03.8(2)).OPT1.GR5, 5-04.2(9-03.8(3)B).OPT1.GR5, 5-04.2(9-03.21(1)).OPT1.GR5, 5-04.3(7).OPT1.GR5, 5-04.3(7)A2.OPT1.GR5, 5-04.3(7)A3.OPT2.GR5, 5-04.3(8).OPT1.GR5, and 5-04.3(8)A7.OPT2.GR5.

5-04.3(7)A1.INST2.GR5 (The following two sentences are inserted after the first sentence in Section 5-04.3(7)A1)
Must use once preceding any of the following:

5-04.3(7)A1.OPT2.GR5 (Allows two mix designs per calendar year for HMA of the same class, asphalt binder grade and number of gyrations)
(March 3, 2014)
Use in all HMA paving projects.

5-04.3(7)A2.GR5 Statistical or Nonstatistical Evaluation

5-04.3(7)A2.INST1.GR5 (Section 5-04.3(7)A2 is revised to read)
Must use once preceding any of the following:

5-04.3(7)A2.OPT1.GR5 (Utilizes recycled asphalt pavement (RAP) or reclaimed asphalt shingles (RAS) in production HMA)
(March 3, 2014)
Use in all HMA paving projects. Headquarters Construction Office approval required to not use.
This provision allows the use of recycled asphalt pavement (RAP) or reclaimed asphalt shingles (RAS) in the production of HMA.
Must use with 5-04.2.OPT8.GR5, 5-04.2(9-02.1).OPT1.GR5, 5-04.2(9-02.1(4)).OPT1.GR5, 5-04.2(9-03.8(2)).OPT1.GR5, 5-04.2(9-03.8(3)B).OPT1.GR5, 5-04.2(9-03.21(1)).OPT1.GR5, 5-04.3(7).OPT1.GR5, 5-04.3(7)A2.OPT1.GR5, 5-04.3(7)A3.OPT2.GR5, 5-04.3(8).OPT1.GR5, and 5-04.3(8)A7.OPT2.GR5.
04.3(7)A3.OPT2.GR5, 5-04.3(8).OPT1.GR5, and 5-04.3(8)A7.OPT2.GR5.

5-04.3(7)A3.GR5

Commercial Evaluation

5-04.3(7)A3.INST2.GR5 (Section 5-04.3(7)A3 is supplemented with the following)

Must use once preceding any of the following:

5-04.3(7)A3.OPT2.GR5 (Utilizes recycled asphalt pavement (RAP) or reclaimed asphalt shingles (RAS) in production HMA)

(January 6, 2014)
Use in all HMA paving projects. Headquarters Construction Office approval required to not use.
This provision allows the use of recycled asphalt pavement (RAP) or reclaimed asphalt shingles (RAS) in the production of HMA.
Must use with 5-04.2.OPT8.GR5, 5-04.2(9-02.1).OPT1.GR5, 5-04.2(9-02.1(4)).OPT1.GR5, 5-04.2(9-03.8(2)).OPT1.GR5, 5-04.2(9-03.8(3)B).OPT1.GR5, 5-04.2(9-03.21(1)).OPT1.GR5, 5-04.3(1).OPT1.GR5, 5-04.3(7).OPT1.GR5, 5-04.3(7)A1.OPT1.GR5, 5-04.3(8).OPT1.GR5, and 5-04.3(8)A7.OPT2.GR5.

5-04.3(8).GR5

Mixing

5-04.3(8).INST1.GR5 (Section 5-04.3(8) is supplemented with the following)

Must use once preceding any of the following:

5-04.3(8).OPT1.GR5 (Utilizes recycled asphalt pavement (RAP) or reclaimed asphalt shingles (RAS) in production HMA)

(January 6, 2014)
Use in all HMA paving projects. Headquarters Construction Office approval required to not use. This provision allows the use of recycled asphalt pavement (RAP) or reclaimed asphalt shingles (RAS) in the production of HMA.
Must use with 5-04.2.OPT8.GR5, 5-04.2(9-02.1).OPT1.GR5, 5-04.2(9-02.1(4)).OPT1.GR5, 5-04.2(9-03.8(2)).OPT1.GR5, 5-04.2(9-03.8(3)B).OPT1.GR5, 5-04.2(9-03.21(1)).OPT1.GR5, 5-04.3(1).OPT1.GR5, 5-04.3(7).OPT1.GR5, 5-04.3(7)A1.OPT1.GR5, 5-04.3(8).OPT1.GR5, and 5-04.3(8)A7.OPT2.GR5.

5-04.3(8)A.GR5

Acceptance Sampling and Testing - HMA Mixture

Must use with 5-04.3(8)A.OPT1.FR5.

5-04.3(8)A.INST1.GR5 (Section 5-04.3(8)A is supplemented with the following)
Must use once preceding any of the following:

5-04.3(8)A.OPT1.FR5  Commercial Evaluation
(August 2, 2010)
Use in projects where the area that commercial
evaluation of hot mix asphalt is to be used is not
identified in the Standard Specifications
(1 fill-in)

5-04.3(8)A4.GR5  Definition of Sampling Lot and Sublot

5-04.3(8)A4.INST1.GR5  (The second sentence in the second paragraph
in Section 5-04.3(8)A4 is revised to read)
Must use once preceding any of the following:

5-04.3(8)A4.OPT1.FR5  (HMA Mixture Sublot Size 1200)
(August 3, 2009)
Use in projects containing 20,000+ tons of
Hot Mix Asphalt that is all of the same class
and PG grade when the paving operation is
anticipated to place 2,500 or more tons per
day. Use requires approval of the Region
Construction Office. The GSP HMA
Compaction Sublot Size 120 should
typically be used with this GSP.
(1 fill-in)

5-04.3(8)A4.OPT2.FR5  (HMA Mixture Sublot Size 1600)
(August 3, 2009)
Use in projects containing 30,000+ tons of
Hot Mix Asphalt that is all of the same class
and PG grade when the paving operation is
anticipated to place 2,500 or more tons per
day. Use requires approval of the Region
Construction Office. The GSP HMA
Compaction Sublot Size 160 should
typically be used with this GSP.
(1 fill-in)

5-04.3(8)A7.GR5  Test Section – HMA Mixtures

5-04.3(8)A7.INST1.GR5  (The first sentence of Section 5-04.3(8)A7 is
revised to read)
Must use once preceding any of the following:

5-04.3(8)A7.OPT1.GR5  (HMA Test Requirements)
(March 3, 2014)
Use in all HMA paving projects. This
provision excludes the Hamburg Wheel-
Track Testing and Indirect Tensile Strength
of Bituminous Materials from test
requirements of each class of HMA
accepted by statistical evaluation.
(Section 5-04.3(8)A7 is supplemented with the following)

Must use once preceding any of the following:

(Section 5-04.3(8)A7 is supplemented with the following)

Must use once preceding any of the following:

(Uses recycled asphalt pavement (RAP) or reclaimed asphalt shingles (RAS) in production HMA)

(January 6, 2014)

Use in all HMA paving projects.

Headquarters Construction Office approval required to not use. This provision allows the use of recycled asphalt pavement (RAP) or reclaimed asphalt shingles (RAS) in the production of HMA.

Must use with 5-04.2.OPT8.GR5, 5-04.2(9-02.1).OPT1.GR5, 5-04.2(9-02.1(4)).OPT1.GR5, 5-04.2(9-03.8(2)).OPT1.GR5, 5-04.2(9-03.8(3)B).OPT1.GR5, 5-04.2(9-03.21(1)).OPT1.GR5, 5-04.3(1).OPT1.GR5, 5-04.3(7).OPT1.GR5, 5-04.3(7)A1.OPT1.GR5, 5-04.3(7)A2.OPT1.GR5, 5-04.3(7)A3.OPT2.GR5, and 5-04.3(8).OPT1.GR5.

Compaction

Control

General

(The first sentence in Section 5-04.3(10)B1 is revised to read)

Must use once preceding any of the following:

(HMA Shoulder Compaction)

(August 3, 2009)

Use in projects to add compaction control on the shoulders.

(The second sentence in the second paragraph of Section 5-04.3(10)B1 is revised to read)

Must use once preceding any of the following:

(HMA Compaction Sublot Size 120)

(August 3, 2009)

Use in projects containing 20,000+ tons of Hot Mix Asphalt when the paving operation is anticipated to place 2,500 or more tons per day. The GSP HMA Mixture Sublot Size 1200 should be used with this GSP.
Use requires approval of the Region Construction Office.

5-04.3(10)B1.OPT3.GR5  (HMA Compaction Sublot Size 160)
(August 3, 2009)
Use in projects containing 30,000+ tons of Hot Mix Asphalt when the paving operation is anticipated to place 2,500 or more tons per day. The GSP HMA Mixture Sublot Size 1600 should be used with this GSP. Use requires approval of the Region Construction Office.

5-04.3(10)B1.INST3.GR5  (The last sentence in the fourth paragraph in Section 5-04.3(10)B1 is revised to read)
Must use once preceding any of the following:

5-04.3(10)B1.OPT14.GR5  (HMA Prelevel Compaction)
(August 3, 2009)
Use in projects to require a pneumatic tire roller for the compaction of all prelevel.

5-04.3(12).GR5  Joints

5-04.3(12).INST1.GR5  (Section 5-04.3(12) is supplemented with the following)
Must use once preceding any of the following:

5-04.3(12).OPT1.GR5  (Feathering Hot Mix Asphalt)
(January 5, 2004)
Use in projects requiring the feathering of hot mix asphalt. May be used with the recommendation of the Region Construction Engineer.

5-04.3(13).GR5  Surface Smoothness

5-04.3(13).INST1.GR5  (The first four paragraphs of Section 5-04.3(13) are revised to read)
Must use once preceding any of the following:

5-04.3(13).OPT1.FR5  (Surface Smoothness)
(January 5, 2015)
Use in all projects that contain HMA paving at the discretion of the Region Construction Manager. Paving must be a minimum of one mile in length. For accurate measurements, the HQ Materials Lab profiler must be able to move through the sections to be measured unimpeded at a minimum speed of 35 MPH. Notification must be made to HQ Materials Lab Pavements section in order to schedule the post paving IRI determination. Fill-ins #1-6 are to be provided by the HQ Materials lab Pavements section. Use with 5-04.5.OPT1.FR5. Do not use with 5-04.3(13).OPT7.FR5 or 5-04.3(13).OPT13.GR5.
(6 fill-ins) Contact Tim Rydholm, Pavements Special
Projects Manager at 360/709-5473 to schedule the IRI
determination and to complete the fill-ins.

5-04.3(13).INST2.GR5 (The second sentence of Section 5-04.3(13) is deleted
and replaced with the following)
Must use once preceding any of the following:

5-04.3(13).OPT7.FR5 (Smoothness requirements)
(March 13, 1995)
Use in projects with roadways to be paved that have a
combination of posted speeds both greater than and
less than 45 MPH. Do not use with 5-
04.3(13).OPT1.FR5.
(1 fill-in is for sections of roadway with a posted speed
limit less than 45 mph)

5-04.3(13).INST3.GR5 (The second sentence of Section 5-04.3(13) is revised to
read)
Must use once preceding any of the following:

5-04.3(13).OPT13.GR5 (Smoothness requirements)
(January 5, 2004)
Use in projects with all roadways to be paved are
posted less than 45 MPH. Do not use with 5-
04.3(13).OPT1.FR5.

5-04.3(14).GR5 Planing Bituminous Pavement

5-04.3(14).INST1.GR5 (Section 5-04.3(14) is supplemented with the following)
Must use once preceding any of the following:

5-04.3(14).OPT1.FR5 (January 5, 2004)
Use in projects when it is necessary to control the time
the planed area will be open and exposed to traffic
prior to paving.
(1 fill-in)

5-04.3(14).OPT2.GR5 (Requires test section and smoothness
requirements)
(January 5, 2004)
Use in projects with large quantities of planing. When
using this GSP consider the need to control the
amount of time the planed area is open to traffic by
adding 5-04.3(14).OPT1.FR5 where appropriate.

5-04.3(14).OPT3.GR5 (Vertical Edge Planing)
(March 13, 1995)
Use in projects when planed lanes shall be paved prior
to being open to traffic.

5-04.3(14).OPT4.GR5 (Beveled Edge Planing)
Use in projects when a beveled edge is required on a planed lane that will be opened to traffic prior to paving. The GSP is required for depths greater than 0.20 feet and may be used with the recommendation of the Region Construction Engineer for depths up to 0.20 feet. When using this GSP consider the need to control the amount of time the planed area is open to traffic by adding 5-04.3(14).OPT1.FR5 where appropriate.

5-04.3(16).GR5  Weather Limitations

5-04.3(16).INST1.GR5  (The first sentence of Section 5-04.3(16) is revised to read)

Must use once preceding any of the following:

5-04.3(16).OPT1.FR5  (August 3, 2009)

Use in projects when it is anticipated that paving will be conducted in the Fall.

(1 fill-in)  (Fill-in to be provided by Region Materials Engineer)

5-04.3(21).GR5  Vacant

5-04.3(21).INST1.GR5  (Section 5-04.3(21) is revised to read)

Must use once preceding any of the following:

5-04.3(21).OPT1.FR5  Asphalt Binder Revision

(October 7, 2013)

Use in projects when the Contracting Agency provides a source of aggregate for HMA. Must include 5-04.4.OPT3.GR5 and 5-04.5.OPT3.GR5.

(1 fill-in)  (Fill-in to be provided by Region Materials Engineer)

5-04.4.GR5  Measurement

5-04.4.INST1.GR5  (Section 5-04.4 is supplemented with the following)

Must use once preceding any of the following:

5-04.4.OPT4.GR5  (Bridge Transverse Joint Seal)

(August 1, 2011)

Must use with 5-04.1.OPT1.GR5, 5-04.2.OPT14.GR5, 5-04.3.OPT8.GR5, and 5-04.5.OPT4.GR5.

Include in all projects requiring a Bridge Transverse Joint Seal.

5-04.5.GR5  Payment

5-04.5.INST2.GR5  (Section 5-04.5 is supplemented with the following)

Must use once preceding any of the following:

5-04.5.OPT1.FR5  (Surface Smoothness)
Fill-in is the appropriate Pay Adjustment Schedule as determined using the criteria below.

**Pay Adjustment Schedule 1** = Interstate highways, new pavement construction or multiple lift pavement overlays (at least one (1) leveling course + wearing course).

Note: Pre-leveling allowances are not to be counted as a leveling course paving lift with respect to this definition.

**Pay Adjustment Schedule 2** = Single lift pavement overlays with allowance for surface variance corrections with smoothness averaging devices (paving skis) or full width pavement milling (including shoulder) with single lift replacement overlay.

Note: Sufficient preleveling and/or pavement thickness variance allowances should be included to repair obvious existing deficiencies (humps, valleys, ruts etc.).

**Pay Adjustment Schedule 3** = Smoothness will be difficult to attain or when risk associated with meeting a smoothness criteria is unknown. Examples include matching to existing concrete gutter lines; sections with multiple surface utility structures; intersections; multiple skip sections resulting in short paving lengths; and milling/replacement paving where both the shoulder and adjacent lane is not also milled. Bonus incentives are applied to encourage maximum effort to obtain smooth pavements in difficult applications.

(1 fill-in)
Include in all projects requiring a Bridge Transverse Joint Seal.

**5-05.GR5**  
Cement Concrete Pavement

**5-05.1.GR5**  
Description

5-05.1.INST1.GR5 (Section 5-05.1 is supplemented with the following)
Must use once preceding any of the following:

5-05.1.OPT1.GR5 (Use when cement concrete pavement has pigmented or textured cement concrete in roundabout locations)
(August 6, 2012)
Use in projects requiring color treatment, textured treatment or both for roundabout truck aprons, splitter islands, and mainline crossings.
Requires approval by the Region Landscape Architect or the HQ Roadside and Site Development Manager for regions without a landscape architect.
*Use with 5-05.2.OPT1.FR5, 5-05.3.OPT1.GR5 or 5-05.3.OPT2.FR5 or both.*

**5-05.2.GR5**  
Materials

5-05.2.INST1.GR5 (Section 5-05.2 is supplemented with the following)
Must use once preceding the following:

5-05.2.OPT1.FR5 (Pigmented cement concrete pavement in roundabouts locations)
(August 6, 2012)
Use in projects requiring color treatment in roundabout truck aprons, splitter islands, and mainline crossings.
Concrete color must contrast with pavement color.
Requires approval by the Region Landscape Architect or the HQ Roadside and Site Development Manager for regions without a landscape architect.
(1 fill-ins)

Get Primary Pigment from Region Landscape Architect or the HQ Roadside and Site Development Manager and then list all the Manufactures and Pigment Color for that Primary Pigment as fill-in information from list shown below:

**Primary Pigment - Brick:**

<table>
<thead>
<tr>
<th>Manufacturer</th>
<th>Pigment Color</th>
</tr>
</thead>
<tbody>
<tr>
<td>BASF</td>
<td>&quot;Red River Clay&quot;, RC5006</td>
</tr>
<tr>
<td>Bomanite</td>
<td>&quot;Brick Red&quot;</td>
</tr>
<tr>
<td>Davis Colors</td>
<td>&quot;Brick Red&quot;, 160</td>
</tr>
<tr>
<td>Increte Systems</td>
<td>&quot;Brick Red&quot;</td>
</tr>
</tbody>
</table>
Primary Pigment - Brown:

<table>
<thead>
<tr>
<th>Manufacturer</th>
<th>Pigment Color</th>
</tr>
</thead>
<tbody>
<tr>
<td>Davis Colors</td>
<td>&quot;River Bank&quot;</td>
</tr>
<tr>
<td>Scofield</td>
<td>&quot;Sand Buff&quot;</td>
</tr>
<tr>
<td>Solomon Colors</td>
<td>&quot;306 Canvas&quot;</td>
</tr>
</tbody>
</table>

Primary Pigment - Dark Gray:

<table>
<thead>
<tr>
<th>Manufacturer</th>
<th>Pigment Color</th>
</tr>
</thead>
<tbody>
<tr>
<td>Davis Colors</td>
<td>&quot;Dark Gray (iron oxide) 860&quot;</td>
</tr>
<tr>
<td>Increte Systems</td>
<td>&quot;Dark Gray&quot;</td>
</tr>
<tr>
<td>Solomon Colors</td>
<td>&quot;Onyx&quot;, 920</td>
</tr>
</tbody>
</table>

Use with 5-05.1.OPT1.GR5, 5-05.3.OPT1.GR5, 5-05.3.OPT2.FR5 (if textured pattern also needed) and 5-05.4.OPT1.GR5.

5-05.3.GR5

Construction Requirements

5-05.3.INST1.GR5

(Section 5-05.3 is supplemented with the following)

Must use once preceding any of the following:

5-05.3.OPT1.GR5

(Use when cement concrete pavement has pigmented color in roundabout locations)

(August 6, 2012)

Use in projects requiring pigmented colored cement concrete pavement in roundabout truck aprons, splitter islands and mainline crossings.

Requires approval by the Region Landscape Architect or the HQ Roadside and Site Development Manager for regions without a landscape architect.

Use with 5-05.1.OPT1.GR5, 5-05.2.OPT1.FR5, 5-05.3.OPT2.FR5 (if textured pattern also needed) and 5-05.4.OPT1.GR5.

5-05.3.OPT2.FR5

(Use when cement concrete pavement has textured pattern in roundabout locations)

(August 6, 2012)

Use in projects requiring textured cement concrete pavement patterns on roundabouts, truck aprons, splitter islands and mainline crossings.

Requires approval by the Region Landscape Architect or the HQ Roadside and Site Development Manager for regions without a landscape architect.

(1 fill-in)
Get the Primary Pattern from Region Landscape Architect or the HQ Roadside and Site Development Manager and then list all the Manufactures and Patterns for that Primary Pattern as fill-in information from list below:

**Primary Pattern - Ashlar Stone:**

<table>
<thead>
<tr>
<th>Manufacturer</th>
<th>Pattern</th>
</tr>
</thead>
<tbody>
<tr>
<td>Increte Systems, Inc.</td>
<td>“Ashlar Slate”</td>
</tr>
<tr>
<td>Renew Crete Systems</td>
<td>“Royal Ashlar”</td>
</tr>
<tr>
<td>Bomanite</td>
<td>“Flagstone”</td>
</tr>
</tbody>
</table>

**Primary Pattern - Brick**

<table>
<thead>
<tr>
<th>Manufacturer</th>
<th>Pattern</th>
</tr>
</thead>
<tbody>
<tr>
<td>Bomanite</td>
<td>“Running Bond Cobblestone”</td>
</tr>
<tr>
<td>Brickform</td>
<td>“Pennsylvania Cobble-Sanded Joint”, TM820</td>
</tr>
<tr>
<td>Increte Systems, Inc.</td>
<td>“Euro Cobble Running Bond”, SECR S001</td>
</tr>
<tr>
<td>Matcrete</td>
<td>“Large Cobblestone”, P-16</td>
</tr>
<tr>
<td>Renew-Crete Systems</td>
<td>“London Cobblestone”</td>
</tr>
<tr>
<td>Scofield</td>
<td>“Old Belgium Stone: Running Bond” (4530)</td>
</tr>
</tbody>
</table>

**Primary Pattern - River Rock**

<table>
<thead>
<tr>
<th>Manufacturer</th>
<th>Pattern</th>
</tr>
</thead>
<tbody>
<tr>
<td>Bomanite</td>
<td>River Rock</td>
</tr>
<tr>
<td>Increte Systems</td>
<td>Savanah Stone</td>
</tr>
<tr>
<td>Matcrete</td>
<td>Large River Rock</td>
</tr>
</tbody>
</table>

Use with 5-05.1.OPT1.GR5, 5-05.2.OPT1.FR5 (if pigmented color also needed), 5-05.3(1).OPT8.GR5 and 5-05.4.OPT1.GR5.

**Concrete Mix Design for Paving**

5-05.3(1).INST2.GR5  
(Section 5-05.3(1) is supplemented with the following)  
Must use once preceding any of the following:

5-05.3(1).OPT7.GR5    
(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 an NPDES General Construction Permit. Must also use 5-05.3.OPT1.GR5, 5-01.3(1)A.OPT1.GR5, 5-01.5.OPT1.GR5, 6-02.3.OPT3.GB6, 6-02.5.OPT3.GB6, 8-01.3(1)A.OPT1.GR8, and 8-01.5.OPT1.GR8.

**5-05.3(1).OPT8.GR5** (Aggregate size for textured cement concrete pavement)  
(August 6, 2012)  
Use when textured cement concrete pavement patterns are needed in roundabouts, truck aprons, splitter islands and mainline crossings. Provides aggregate requirements for textured cement concrete pavement patterns.

Requires approval by the Region Landscape Architect or the HQ Roadside and Site Development Manager for regions without a landscape architect. Use with 5-05.1.OPT1.GR5, GSP 5-05.3.OPT2.FR5, and GSP 5-05.4.OPT1.GR5.

**5-05.3(17).GR5** Opening to Traffic  
**5-05.3(17).INST2.GR5** (Section 5-05.3(17) is revised to read)  
Must use once preceding any of the following:

**5-05.3(17).OPT1.GR5** (Maturity Testing for Concrete Pavement)  
(August 5, 2013)  
Use in all projects where the Portland Cement Concrete Pavement (PCCP) or the Replacement of Portland Cement Concrete Panels are required to be opened to traffic within 24 hours of placement. Requires the approval of State Pavement Engineer or Headquarters Construction Office. Use with 5-05.5.OPT5.GR5.

**5-05.4.GR5** Measurement  
**5-05.4.INST1.GR5** (Section 5-05.4 is supplemented with the following)  
Must use once preceding any of the following:

**5-05.4.OPT1.GR5** (August 6, 2012)  
(Textured and pigmented cement concrete pavement per square yard.)  
Use with 5-05.5.OPT2.GR5, GSP 5-05.5.OPT3.GR5 or 5-05.5.OPT4.GR5.

**5-05.5.GR5** Payment  
**5-05.5.INST1.GR5** (Section 5-05.5 is supplemented with the following)
Must use once preceding any of the following:

**5-05.5.OPT1.GR5** (April 3, 2006)
Must include with 5-05.3(1).OPT7.GR5, 5-01.3(1).A.OPT1.GR5, 5-05.5.OPT1.GR5, 6-02.3.OPT3.GB6, 6-02.5.OPT3.GB6, 8-01.3(1).A.OPT1.GR8, and 8-01.5.OPT1.GR8.

**5-05.5.OPT2.GR5** (August 6, 2012)
Pigmented cement concrete pavement per square yard.
Use with 5-05.1.OPT1.GR5 and 5-05.4.OPT1.GR5.

**5-05.5.OPT3.GR5** (August 6, 2012)
Textured cement concrete pavement per square yard.
Use with 5-05.1.OPT1.GR5 and 5-05.4.OPT1.GR5.

**5-05.5.OPT4.GR5** (August 6, 2012)
Textured and pigmented cement concrete pavement per square yard.
Use with 5-05.1.OPT1.GR5 and 5-05.4.OPT1.GR5.

**5-05.5.OPT5.GR5** (August 5, 2013)
Maturity Testing for Concrete Pavement incidental to bid items Cement Conc. Pavement or Replacement Cement Concrete Panel.
Use with 5-05.3(17).OPT1.GR5.

**5-SA1.GR5** Just in Time Training (August 5, 2013)
Use in all projects with cement concrete pavement.