INDIANA DEPARTMENT OF TRANSPORTATION



100 North Senate Avenue Room N758 CM Indianapolis, Indiana 46204 PHONE: (317) 232-5502 www.in.gov/indot

Eric Holcomb, Governor Joe McGuinness, Commissioner

FINAL DRAFT MINUTES

March 18, 2021 Standards Committee Meeting

(Changes to the Agenda by the Action of the Committee and to the First Draft Minutes based on comments received, shown as highlighted in yellow)

April 7, 2021

TO: Standards Committee

FROM: Scott Trammell, Secretary

RE: Minutes from the March 18, 2021 Standards Committee Meeting

The Standards Committee meeting was called to order by Mr. Pankow, Chair, at 01:01 p.m. on March 18, 2021, which was held virtually via *Teams* (Microsoft application). The meeting was adjourned at 01:23 p.m.

The following committee members were in a virtual attendance:

Gregory Pankow, Chairman, Director, Construction Management
John Wooden, Contract Administration Division
Dave Boruff, Traffic Engineering
Mark Orton, Bridge Design Division
Joe Novak, Construction Management
Kumar Dave, Pavement Engineering, Highway Design
Jim Reilman, Materials and Tests Division
Michael Koch, District Construction, Fort Wayne District
Elena Veksler, Highway Design and Technical Support
Kurt Pelz, Construction Technical Support
Louis Feagans, Director, Statewide Technical Services

Also, virtual presence was captured by *Microsoft Teams* of the following:

Awwad, Nathan, INDOT Blanchard, Jacob, INDOT Duncan, Thomas, FHWA Fowler, Kirsten, INDOT Harris, Tom, INDOT Beeson, Matt, INDOT Corrice, Zachariah, INDOT Fisher, Steve, INDOT Frederick, Jared, INDOT Hauser, Derrick, INDOT McNutt, Donald, guest Pfeiffer, Nate, INDOT Ritter, John, INDOT Susong, John, Rinker Materials Wortkoetter, Andrew, INDOT Patterson, Patrick, INDOT Podorvanova, Lana, INDOT Siddiki, Nayyar, INDOT Trammell, Scott, INDOT

The following items were discussed:

A. GENERAL BUSINESS ITEMS

OLD BUSINESS

(No items were listed)

NEW BUSINESS

1. Approval of the Minutes from the February 18, 2021 meeting

DISCUSSION: Mr. Pankow requested a motion to approve the Minutes from the February 18,

2021 meeting.

Motion: Mr. Boruff Second: Mr. Reilman Ayes: 9 (absent: 1)

Nays: 0

ACTION:

PASSED AS SUBMITTED

B. CONCEPTUAL PROPOSAL ITEMS

OLD BUSINESS

(No items were listed)

NEW BUSINESS

(No items were listed)

<u>C. STANDARD SPECIFICATIONS, SPECIAL PROVISIONS AND STANDARD DRAWINGS</u> <u>PROPOSED ITEMS</u>

OLD BUSINESS

(No items were listed)

NEW BUSINESS

Item No. 1 (2020 SS) Mr. Reilman pg 4 2020 Standard Specifications: 609.02 Materials 609.13 Method of Measurement 609.14 Basis of Payment Recurring Special Provisions: 609-B-311 RCBA SLAB OPTION FOR USE WITH SHORT **TERM CLOSURES** 702-R-691 STRUCTURAL CONCRETE Standard Drawings: E 503-BATJ-01 TERMINAL JOINT INDEX AND GENERAL NOTES E 609-RCBA-01 REINFORCED CONCRETE BRIDGE APPROACH **INDEX AND GENERAL NOTES ACTION: PASSED AS SUBMITTED** Item No. 2 (2020 SS) Mr. Reilman pg 16 **Recurring Special Provisions:** 401-R-417 HMA SPRAY PAVER AND EMULSION 410-R-418 SMA SPRAY PAVER AND EMULSION **ACTION:** PASSED AS REVISED Item No. 3 (2020 SS) pg 26 Mr. Reilman **Recurring Special Provision:** 509-R-722 **PCCP JOINT REPAIR PASSED AS SUBMITTED ACTION:**

3

Committee Members

FHWA ICI

cc:

STANDARD SPECIFICATIONS, SPECIAL PROVISIONS AND STANDARD DRAWINGS

REVISION TO STANDARD SPECIFICATIONS, SPECIAL PROVISIONS, AND STANDARD DRAWINGS

PROPOSAL TO STANDARDS COMMITTEE

PROBLEM(S) ENCOUNTERED: Reinforced concrete bridge approach slabs require a pozzolan and thus surface sealing is no longer needed. Class C concrete is not needed for reinforced concrete bridge approach slabs. The excess cement results in excess shrinkage, cracking, and cost, all of which are not necessary.

<u>PROPOSED SOLUTION:</u> incorporate proposed changes; delete references to surface seal and revert back to class A concrete.

APPLICABLE STANDARD SPECIFICATIONS: 609

APPLICABLE STANDARD DRAWINGS: None

APPLICABLE DESIGN MANUAL SECTION: Yes

APPLICABLE SECTION OF GIFE: TBD

<u>APPLICABLE RECURRING SPECIAL PROVISIONS:</u> create new 609, or alternatively incorporate into 2022 spec book

PAY ITEMS AFFECTED: None

APPLICABLE SUB-COMMITTEE ENDORSEMENT: Ad Hoc: Jeremy Hunter, Mike Nelson, Jim Reilman, & Pete White

IMPACT ANALYSIS (attach report):

Submitted By: Jim Reilman

Title: State Materials Engineer

Organization: INDOT, Office of Materials & Tests

Phone Number: 317-522-9692

Date: 2/16/21

STANDARD SPECIFICATIONS, SPECIAL PROVISIONS AND STANDARD DRAWINGS

REVISION TO STANDARD SPECIFICATIONS, SPECIAL PROVISIONS, AND STANDARD DRAWINGS

IMPACT ANALYSIS REPORT CHECKLIST

Explain the business case as to why this item should be presented to the Standards Committee for approval. Answer the following questions with Yes, No or N/A.

<u>Does this item appear in any other specification sections?</u> No <u>Will approval of this item affect the Approved Materials List?</u> No Will this proposal improve:

Construction costs? Yes

Construction time? N/A

Customer satisfaction? Yes

Congestion/travel time? N/A

Ride quality? N/A

Will this proposal reduce operational costs or maintenance effort? Yes

Will this item improve safety:

For motorists? N/A

For construction workers? N/A

Will this proposal improve quality for:

Construction procedures/processes? Yes

Asset preservation? Yes

Design process? N/A

Will this change provide the contractor more flexibility? N/A

Will this proposal provide clarification for the Contractor and field personnel? Yes

Can this item improve/reduce the number of potential change orders? N/A

Is this proposal needed for compliance with:

Federal or State regulations? No

AASHTO or other design code? No

Is this item editorial? NO

<u>Provide any further information as to why this proposal should be placed on the Standards Committee meeting Agenda:</u>

Mr. Reilman Date: 3/18/21

REVISION TO STANDARD SPECIFICATIONS, SPECIAL PROVISION, AND STANDARD DRAWINGS

SECTION 609 - REINFORCED CONCRETE BRIDGE APPROACHES

609.02 Materials

609.13 Method of Measurement

609.14 Basis of Payment

609-B-311 RCBA SLAB OPTION FOR USE WITH SHORT TERM CLOSURES

702-R-691 STRUCTURAL CONCRETE

E 503-BATJ-01 TERMINAL JOINT INDEX AND GENERAL NOTES

E 609-RCBA-01 REINFORCED CONCRETE BRIDGE APPROACH INDEX AND GENERAL NOTES

(Note: Proposed changes shown highlighted gray.
Previously approved changes to Section 609
at: July 18, 2019 and November 20, 2019 meetings.)

The Standard Specifications are revised as follows:

SECTION 609, BEGIN LINE 1, DELETE AND INSERT AS FOLLOWS:

SECTION 609 – REINFORCED CONCRETE BRIDGE APPROACHES

609.01 Description

This work shall consist of constructing reinforced concrete bridge approaches, RCBA, and extensions required for bridge railing transitions in accordance with 105.03.

MATERIALS

609.02 Materials

Materials shall be in accordance with the following:

Coarse Aggregate, Class D or Higher, Size No. 53	904
Concrete, Class C*A	
Curing Materials	912.01
Joint Materials	
Reinforcing Bars, Epoxy Coated	910.01
Support Devices	910.01(b)9
Surface Seal	
Threaded Tie Bar Assembly	910.01(b)2
* Coarse A garagete shall be Class AD Size No. 9	` '

SECTION 609, BEGIN LINE 128, DELETE AS FOLLOWS:

609.13 Method of Measurement

Reinforced concrete bridge approaches, including extensions required for bridge railing transitions, will be measured by the square yard. Dense graded subbase will be measured in accordance with 302.08. Reinforcing bars will be measured in accordance with 703.07. Threaded tie bar assemblies will be measured in accordance with 703.07. Surface seal will be measured in accordance with 709.07.

Mr. Reilman Date: 3/18/21

REVISION TO STANDARD SPECIFICATIONS, SPECIAL PROVISION, AND STANDARD DRAWINGS

SECTION 609 - REINFORCED CONCRETE BRIDGE APPROACHES

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E 503-BATJ-01 TERMINAL JOINT INDEX AND GENERAL NOTES

E 609-RCBA-01 REINFORCED CONCRETE BRIDGE APPROACH INDEX AND GENERAL NOTES

SECTION 609, BEGIN LINE 139, DELETE AS FOLLOWS:

609.14 Basis of Payment

Reinforced concrete bridge approaches, including extensions required for bridge railing transitions, will be paid for at the contract unit price per square yard. Dense graded subbase will be paid for in accordance with 302.09. Reinforcing bars will be paid for in accordance with 703.08. Threaded tie bar assemblies will be paid for in accordance with 703.08. Surface seal will be paid for in accordance with 709.08.

Mr. Reilman Date: 3/18/21

REVISION TO STANDARD SPECIFICATIONS, SPECIAL PROVISION, AND STANDARD DRAWINGS

SECTION 609 - REINFORCED CONCRETE BRIDGE APPROACHES

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(Note: Proposed changes shown highlighted gray and are with 2022 Standard Specifications. Line references will be revised as soon as 2022 SS finalized and ready for print.)

609-B-311 RCBA SLAB OPTION FOR USE WITH SHORT TERM CLOSURES

(Revised 11-20-19)

The Standard Specifications are revised as follows:

SECTION 609, BEGIN LINE 14, DELETE AND INSERT AS FOLLOWS:

SECTION 609, AFTER LINE 22, INSERT AS FOLLOWS:

The cement content used in the Class C concrete for the RCBAs may be increased to 752 lbs/cu yd.

SECTION 609, BEGIN LINE 88, DELETE AND INSERT AS FOLLOWS:

609.10 Curing and Sealing

RCBA shall be wet cured in accordance with 702 or shall have liquid membrane forming curing compound applied to exposed surfaces within 30 minutes after the finishing operations have been completed, as specified below. The edges of the RCBA shall be cured immediately upon removal of the forms. The edge shall be covered with curing materials equal to the material used on the surface or banked with soil 12 in. wide or greater.

SECTION 609, BEGIN LINE 100, INSERT AS FOLLOWS:

Liquid membrane forming curing compound shall be applied to the RCBA in a continuous uniform film at a rate not less than 1 gal./150 sq ft of concrete surface and shall be applied to provide a uniform, solid, white opaque coverage on all surfaces, similar to a white sheet of paper. The curing compound shall be mixed thoroughly within 1 h before use. All concrete cured by this method shall receive two applications of the curing compound. The first application shall be applied immediately after surface water has disappeared and surface texturing has been applied. The second application shall be applied after the first application has set. Additional applications, if needed, shall follow the previous application within 30 minutes. The curing compound may be warmed in a water bath during cold weather at a temperature not exceeding 100°F. Thinning with solvents will not be allowed. Non-uniform film rates will result in the discontinuance of that application method.

Mr. Reilman Date: 3/18/21

REVISION TO STANDARD SPECIFICATIONS, SPECIAL PROVISION, AND STANDARD DRAWINGS

SECTION 609 - REINFORCED CONCRETE BRIDGE APPROACHES

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609-B-311 RCBA SLAB OPTION FOR USE WITH SHORT TERM CLOSURES

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E 503-BATJ-01 TERMINAL JOINT INDEX AND GENERAL NOTES

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The RCBAs may be covered with an insulating material during the curing period. Insulating materials are not a substitute for curing and liquid membrane forming curing compound shall be applied prior to placing insulating materials.

Concrete sealer shall not be used on the RCBA. The concrete mix design shall use the silica fume option in accordance with 709.05(c). Slag cement shall not be used.

SECTION 609, BEGIN LINE 120, DELETE AND INSERT AS FOLLOWS:

609.12 Opening to Traffic

The RCBA may be opened to equipment and traffic when the flexural strength of the test beams indicate a modulus of rupture of 550 psithe concrete has attained a modulus of rupture of 500 psi or greater.

SECTION 609, BEGIN LINE 159, DELETE AND INSERT AS FOLLOWS:

The cost of finishing, furnishing, and placing curing materials, *silica fume*, *insulating materials*, *and additional cement used* shall be included in the cost of the RCBA.

Mr. Reilman Date: 3/18/21

REVISION TO STANDARD SPECIFICATIONS, SPECIAL PROVISION, AND STANDARD DRAWINGS

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702-R-691 STRUCTURAL CONCRETE

(Revised 06-18-20)

The Standard Specifications are revised as follows:

SECTION 702, BEGIN LINE 7, INSERT AS FOLLOWS:

702.02 Classes of Concrete

The following classes of concrete shall be used where specified.

Class of Concrete	A	В	C
Cement content in lbs/cu yd	564	470	658
Maximum water/cement ratio in lbs of water per lbs of cement	0.450	0.620	0.443
Minimum water/cement ratio in lbs of water per lbs of cement*	0.380	0.400	0.380
*The minimum water/cement ratio for all slipformed railings shall be 0.360.			

SECTION 702, BEGIN LINE 34, DELETE AND INSERT AS FOLLOWS:

Fabric for Waterproofing918.06

SECTION 702, BEGIN LINE 99, DELETE AND INSERT AS FOLLOWS:

Blended portland pozzolan cements, fly ash, and ground granulated blast furnace slag used as a pozzolan may only be used in concrete bridge decks between April 1 and October 15 of the same calendar yearSlag cement or silica fume in accordance with 709.05(c) shall be used in all bridge decks, and reinforced concrete bridge approaches, and terminal joint lugs.

Blended portland pozzolan cements, fly ash, and slag cement may be used in concrete when the ambient temperature is above 50°F during the entire placement period. Immediately following placement, the average ambient temperature shall be above 50°F for the entire curing period. The average temperature shall be calculated based on hourly temperature measurements taken at the jobsite or from published weather station data within 10 miles of the jobsite. If the temperature restrictions are not met during placement or during the required curing period, curing shall continue and the element shall not be put into service until the strength requirements in accordance with 702.24 are met. If no test specimens are available to determine the concrete strength, curing shall continue and

Mr. Reilman Date: 3/18/21

REVISION TO STANDARD SPECIFICATIONS, SPECIAL PROVISION, AND STANDARD DRAWINGS

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the concrete will be adjudicated as failed material. In no case shall the curing period be reduced below the minimum number of days specified for the element.

SECTION 702, BEGIN LINE 116, DELETE AND INSERT AS FOLLOWS:

Class A concrete shall contain a water-reducing admixture. Class C concrete shall contain either a water-reducing admixture or both a water-reducing admixture and a retarding admixture. The types used shall not be changed during any individual contiguous pour. For class C concrete, ‡the types of admixtures to be used, shall be selected based on the expected concrete or air temperature. When either temperature is expected to be 65°F or above, both a water-reducing admixture and a retarding admixture shall be used. A water-reducing admixture shall be used when both temperatures are expected to be below 65°F unless retardation is required due to the structure design or the proposed pour sequence such as the requirements for floor slab pours set out in 704.04. If class C concrete contains ground granulated blast furnace slag, the producer may propose an alternate temperature threshold for including a retarding admixture. If either class A concrete or class C concrete is used in slipformed railings, the requirement to use a water reducing admixture is waived. Air-entraining cements will not be allowed in class C concrete.

SECTION 702, BEGIN LINE 237, INSERT AS FOLLOWS:

Concrete that is not within the specified slump limits at time of placement shall not be used. Except as required in 702.05 for *class A and* class C concrete, chemical admixtures type A, type B, type D, type F, and type G, may be used in the concrete. Chemical admixtures type C and type E will be allowed only with prior written permission.

SECTION 702 BEGIN LINE 477, DELETE AND INSERT AS FOLLOWS:

702.11 Cold Weather Concrete

When it is necessary to place concrete at or below an atmospheric temperature of 35°40°F, or whenever it is determined that the temperature may fall below 35°40°F within the curing period, the water, aggregates, or both shall be heated and suitable enclosures and heating devices provided. Cold weather concrete shall be placed at the risk of the Contractor and shall be removed and replaced with no additional payment if it becomes frozen or otherwise damaged.

SECTION 702, BEGIN LINE 528, DELETE AND INSERT AS FOLLOWS:

702.12 Consistency

Slump will be measured in accordance with 505 and shall be no less than 1 in. and no more than 46 in. except for concrete placed in foundation seals.

Mr. Reilman Date: 3/18/21

REVISION TO STANDARD SPECIFICATIONS, SPECIAL PROVISION, AND STANDARD DRAWINGS

SECTION 609 - REINFORCED CONCRETE BRIDGE APPROACHES

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E 503-BATJ-01 TERMINAL JOINT INDEX AND GENERAL NOTES

E 609-RCBA-01 REINFORCED CONCRETE BRIDGE APPROACH INDEX AND GENERAL NOTES

SECTION 702, BEGIN LINE 1286, INSERT AS FOLLOWS:

702.24 Application of Loads to and Acceptance of New Concrete

Except as otherwise hereinafter provided, application of loads to new concrete shall be in accordance with the following:

- (a) Equipment or traffic will not be allowed on structures until test beams representing all concrete required to carry live loads have attained a flexural strength of 550 psi for third-point loading.
- (b) Unbalanced backfill will not be allowed until test beams representing the concrete required to resist it have attained a flexural strength of 440 psi for third-point loading. The unbalanced height shall not exceed 10 ft until test beams representing the concrete have attained a flexural strength of 480 psi for third-point loading.
- (c) The dead weight of steel or precast concrete superstructure shall not be placed on concrete until test beams representing the concrete have attained a flexural strength of 400 psi for third-point loading. A dead load shall not be placed on hammer-head piers until test beams representing have attained a flexural strength of at least 480 psi for third-point loading. The concrete floor, if to be placed thereon, shall not be poured until test beams representing the concrete supporting the superstructure have attained a flexural strength of at least 440 psi for third-point loading.
- (d) Test beams representing concrete anchoring inserts to support falsework shall attain a flexural strength of a minimum of 480 psi for third-point loading, before a dead load of concrete is applied.
- (e) When blended portland pozzolan cements, fly ash, or slag cement are used in bridge railings or concrete barrier and the temperature limitations in accordance with 702.05 are not met, the bridge railings or concrete barrier may be put into service when flexural strength testing performed on test specimens indicate a modulus of rupture of 500 psi has been attained.

Mr. Reilman Date: 3/18/21

REVISION TO STANDARD SPECIFICATIONS AND SPECIAL PROVISION

E 503-BATJ-01 TERMINAL JOINT INDEX AND GENERAL NOTES (with markups)

INDEX			
SHEET NO.	SHEET NO. SUBJECT		
1	1 Terminal Joint Index and General Notes		
2	Terminal Joint, Type PCCP		
3	Terminal Joint, Type HMA		



GENERAL NOTES:

- When the approach pavement is Continuously Reinforced Concrete Pavement (CRCP) or HMA over CRCP, the details shall be as shown elsewhere on the plans.
- The width of the concrete sleeper slab shall match the width of the reinforced concrete bridge approach slab.
- 3. Reinforcing bars shall be epoxy coated.
- 4. Sleeper slab and terminal joint shall be concrete, Class A.
- 5. The driving surface of the concrete lug shall be surface sealed.

TERMINAL JOINT INDEX AND GENERAL NOTES SEPTEMBER 2020 STANDARD DRAWING NO. E 503-BATJ-01 DESIGN STANDARDS ENGINEER DATE 04/02/20 OHIEF ENSINEER DATE

Mr. Reilman Date: 3/18/21

REVISION TO STANDARD SPECIFICATIONS AND SPECIAL PROVISION

E 609-RCBA-01 REINFORCED CONCRETE BRIDGE APPROACH INDEX AND GENERAL NOTES (with markups)

INDEX		
SHEET NO. SUBJECT		
1 Reinforced Concrete Bridge Approach Index and General Notes		
2	2 Reinforced Concrete Bridge Approach Square	
3	3 Reinforced Concrete Bridge Approach Skewed	
4	Reinforced Concrete Bridge Approach Section, Pavement Ledge, and Bar Bending Details	

GENERAL NOTES:

- 1. All reinforcing bars shall be epoxy coated.
- See Standard Drawing series E 609-TBAE for RCBA extensions used with bridge railing transitions.
- 3. RCBA shall be surface sealed.

INDIANA DEPARTMENT OF TRANSPORTATION REINFORCED CONCRETE BRIDGE APPROACH INDEX AND GENERAL NOTES SEPTEMBER 2020 STANDARD DRAWING NO. E 609-RCBA-01 AND NO. 03/10/20 No. DESIGN STANDARDS ENGINEER DATE 10200124 STATE OF STATE OF STATE OF CHIEF ENGINEER 04/02/20 DATE

Mr. Reilman Date: 3/18/21

COMMENTS AND ACTION

609.02 Materials

609.13 Method of Measurement

609.14 Basis of Payment

609-B-311 RCBA SLAB OPTION FOR USE WITH SHORT TERM CLOSURES

702-R-691 STRUCTURAL CONCRETE

E 503-BATJ-01 TERMINAL JOINT INDEX AND GENERAL NOTES

E 609-RCBA-01 REINFORCED CONCRETE BRIDGE APPROACH INDEX AND GENERAL NOTES

DISCUSSION:

This item was introduced and presented by Mr. Reilman, who stated that reinforced concrete bridge approach slabs require a pozzolan, which means that surface sealing is no longer needed. Mr. Reilman also explained that Class C concrete is not needed for reinforced concrete bridge approach slabs, stating that the excess cement results in excess shrinkage, cracking, and cost, all of which are not necessary.

Mr. Reilman therefore proposed to incorporate the proposed changes shown above, delete references to surface seal and revert back to class A concrete. The surface seal requirement will also be removed from the standard drawing for the RCBA.

Since the revisions to 609.02, 609.13, and 609.14 are rather minor, it is proposed to incorporate those changes into the 2022 spec book instead of creating another RSP.

There was no further discussion and this item passed as submitted.

Motion: Mr. Reilman	Action:	
Second: Mr. Koch		
Ayes: 10	X	Passed as Submitted
Nays: 0	 -	Passed as Revised
FHWA Approval: YES		Withdrawn
Standard Specifications Sections referenced	v	2022 Standard Specifications, and changes
and/or affected:	from 702-	
and/or affected.	110111 702-	N-031
609 begin pg 480.		Revise Pay Items List
003 Begin pg 400.	7	nevise ray items list
Recurring Special Provision affected:	X	Revise RSP (No. <u>609-B-311</u>)
		Effective: September 1, 2021
609-B-311 RCBA SLAB OPTION FOR USE WITH		RSP Sunset Date:
SHORT TERM CLOSURES		
/	X	Standard Drawing: E 503-BATJ-01 and
Standard Drawing affected:	_	<u>E 609-RCBA-01</u>
		Effective: September 1, 2021
E 503-BATJ-01		
E 609-RCBA-01		Create RPD (No)
		Effective:
Design Manual Sections affected:		
Αλ Υ ΄		GIFE Update
YES		
7	_	SiteManager Update
GIFE Sections affected:		
	_	Frequency Manual Update
NO		

STANDARD SPECIFICATIONS, SPECIAL PROVISIONS AND STANDARD DRAWINGS

REVISION TO SPECIAL PROVISIONS

PROPOSAL TO STANDARDS COMMITTEE

<u>PROBLEM(S) ENCOUNTERED:</u> confusion on spray paver usage when the plans dictate the shoulder to be placed simultaneously with mainline pavement.

PROPOSED SOLUTION: Clarify specifications for when HMA is exempted from spray paver use.

APPLICABLE STANDARD SPECIFICATIONS: 401, 410

APPLICABLE STANDARD DRAWINGS: N/A

APPLICABLE DESIGN MANUAL SECTION: N/A

APPLICABLE SECTION OF GIFE: N/A

APPLICABLE RECURRING SPECIAL PROVISIONS: RSP 401-R-417 and 410-R-418

PAY ITEMS AFFECTED: N/A

APPLICABLE SUB-COMMITTEE ENDORSEMENT:

IMPACT ANALYSIS (attach report):

Submitted By: Jim Reilman

Title: State Materials Engineer

Organization: INDOT

Phone Number: 317-522-9692

Date: 2/26/21

STANDARD SPECIFICATIONS, SPECIAL PROVISIONS AND STANDARD DRAWINGS

REVISION TO SPECIAL PROVISIONS

IMPACT ANALYSIS REPORT CHECKLIST

Explain the business case as to why this item should be presented to the Standards Committee for approval. Answer the following questions with Yes, No or N/A.

Does this item appear in any other specification sections? N

Will approval of this item affect the Approved Materials List? N

Will this proposal improve:

Construction costs? N

Construction time? N

Customer satisfaction? N

Congestion/travel time? N

Ride quality? N

Will this proposal reduce operational costs or maintenance effort? N

Will this item improve safety:

For motorists? N

For construction workers? N

Will this proposal improve quality for:

Construction procedures/processes? Y

Asset preservation? N

Design process? Y

Will this change provide the contractor more flexibility? N

Will this proposal provide clarification for the Contractor and field personnel? Y

Can this item improve/reduce the number of potential change orders? N

Is this proposal needed for compliance with:

Federal or State regulations? N

AASHTO or other design code? N

Is this item editorial? N

<u>Provide any further information as to why this proposal should be placed on the Standards Committee</u> meeting Agenda:

Mr. Reilman Date: 3/18/21

REVISION TO SPECIAL PROVISIONS

401-R-417 HMA SPRAY PAVER AND EMULSION 410-R-418 SMA SPRAY PAVER AND EMULSION

(Note: Proposed changes shown highlighted gray)

401-R-417 HMA SPRAY PAVER AND EMULSION

(Adopted 05-21-20)

The Standard Specifications are revised as follows:

SECTION 401, BEGIN LINE 21, INSERT AS FOLLOWS:

401.03 Materials

Materials shall be in accordance with the following:

Asphalt Emulsion	902.01(b)2
Asphalt Materials	
PG Binder	902.01(a)
Coarse Aggregates	904
Base Mixtures – Class D or Higher	
Intermediate Mixtures – Class C or Higher	
Surface Mixtures* – Class B or Higher	
Fibers	AASHTO M 325
Fine Aggregates	904
*Surface aggregate requirements are listed in 904.03(d).	

SECTION 401, BEGIN LINE 360, DELETE AND INSERT AS FOLLOWS:

Rubblized concrete pavements shall be primed in accordance with 405. PCCP, milled asphalt surfaces, and asphalt surfacesnew and existing asphalt surfaces shall be tacked in accordance with 406, except surfaces shall be tacked in accordance with 401.14 when mixture is placed with paving equipment in accordance with 409.03(c)4. Contact surfaces of curbing, gutters, manholes, and other structures shall be tacked in accordance with 406.

SECTION 401, BEGIN LINE 381, INSERT AS FOLLOWS:

401.14 Spreading and Finishing

The mixture placed on a shoulder, approach, taper, or gore area that is not placed simultaneously with a travel lane, turn lane, auxiliary lane, or ramp, shall be placed by means of laydown equipment in accordance with 409.03(c)1, 409.03(c)2, or 409.03(c)3 and tacked in accordance with 406 and 409.03(a). No additional payment will be made if the Contractor elects to use equipment and materials in accordance with 409.03(c)4 and 902.01(b)2.

The mixture placed on all travel lanes, turn lanes, auxiliary lanes, and ramps shall be placed upon an approved surface by means of laydown equipment in accordance with 409.03(c)4. This shall include a mixture placed simultaneously with a travel lane, turn lane, auxiliary lane, or ramp.

REVISION TO SPECIAL PROVISIONS

401-R-417 HMA SPRAY PAVER AND EMULSION 410-R-418 SMA SPRAY PAVER AND EMULSION

The spray paver emulsion, in accordance with 902.01(b)2, shall be applied at a temperature recommended by the emulsion supplier and applied uniformly across the entire width of pavement to be overlaid. Equipment shall not operate on the applied emulsion before the asphalt mix is placed.

The asphalt emulsion spray bar affixed to the spray paver shall not be turned off while applying the HMA except when passing over the plate sampling area. The plate sampling area shall be defined as 3.0 ft or less from the first edge of the plate sample encountered going upstream and continuing to 3.0 ft or less from the last edge of the plate sample encountered going upstream. This shall include any contractor plate samples. Tack coat will not be required in the plate sampling area.

The application rates of the spray paver emulsion are shown in the table below.

Spray Paver Emulsion Application Rate			
and Adjustment Factors for Surface Conditions			
Mixture Designation	19.0 mm or 25.0 mm	12.5 mm	9.5 mm
Tack Emulsion Application Rate, gal./sq yd	0.25	0.20	0.17
Existing Surface Condition	J	ustment to n rate, gal.	/sq yd
PCCP, smooth or polished	-0.03	-0.03	-0.03
PCCP, broomed or textured	0	0	0
Flushed asphalt concrete surface -0.02 -0.03		-0.03	
Dense, unaged asphalt concrete surface	0	0	0
Open textured, dry, aged or oxidized asphalt concrete surface	+0.02	+0.01	+0.01
Milled asphalt concrete surface	+0.02	+0.01	+0.01

A pre-paving meeting between the Engineer and the Contractor shall be held onsite prior to beginning work. The following shall be reviewed:

- (a) work schedule
- (b) traffic control plan
- (c) equipment calibrations and adjustments
- (d) inspection and evaluation of the condition and adequacy of equipment, including units for transport of materials
- (e) design mix formula
- (f) the Contractor's proposed emulsion and mix application rates
- (g) QCP in accordance with ITM 803
- (h) the Contractor's authorized representative.

Mr. Reilman Date: 3/18/21

REVISION TO SPECIAL PROVISIONS

401-R-417 HMA SPRAY PAVER AND EMULSION 410-R-418 SMA SPRAY PAVER AND EMULSION

Prior to paving, both the planned quantity and lay rate shall be adjusted by multiplying by the MAF. When mixture is produced from more than one DMF for a given pay item, the MAF will be applied to the applicable portion of the mixture for each. The temperature of each mixture at the time of spreading shall be less than 315°F whenever PG 64-22 or PG 70-22 binders are used or not more than 325°F whenever PG 76-22 binder is used. No mixture shall be placed on a previously paved course that has not cooled to below 175°F. For mixtures compacted in accordance with 402.15, the temperature of each mixture at the time of spreading shall not be less than 245°F.

SECTION 401, AFTER LINE 404, INSERT AS FOLLOWS:

HMA mainline and HMA shoulders which are 8 ft or more in width shall be placed with paving equipment in accordance with 409.03(c)1 or 409.03(c)4.

SECTION 401, AFTER LINE 869, INSERT AS FOLLOWS: Spray paver emulsion will be measured by the ton.

SECTION 401, AFTER LINE 886, INSERT AS FOLLOWS:

The accepted quantities of spray paver emulsion will be paid for at the contract unit price per ton, complete in place.

Payment will be made under:

Pay Item	Pay Unit Symbol
Joint Adhesive,	LFT
course type	
HMA Spray Paver Emulsion	TON
Liquid Asphalt Sealant	LFT
Profilograph, HMA	LS
	TON
$(ESAL^{(1)}) (PG^{(2)}) (Course^{(3)}) (Mix^{(4)})$	
(1) ESAL Category as defined in 401.04	
(2) Number represents the high temperature binder g	grade. Low
temperature grades are - 22	
(3) Surface, Intermediate, or Base	
(4) Mixture Designation	

SECTION 409, AFTER LINE 84, INSERT AS FOLLOWS:

4. Spray Paver

The paver shall be in accordance with 409.03(c)1 except as follows:

(a) The paver shall be self-priming, designed and built for applying the HMA and the asphalt emulsion simultaneously. The paver shall have a receiving hopper, feed system, asphalt emulsion storage tank, a calibrated metering system for

Mr. Reilman Date: 3/18/21

REVISION TO SPECIAL PROVISIONS

401-R-417 HMA SPRAY PAVER AND EMULSION 410-R-418 SMA SPRAY PAVER AND EMULSION

measuring the emulsion volume applied, spray bar and a heated, variable width, combination vibratory screed or a combination vibratory-tamping bar screed.

(b) The paver shall be capable of spraying the asphalt emulsion, applying the asphalt mix and leveling the surface of the mat in one pass.

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REVISION TO SPECIAL PROVISIONS

401-R-417 HMA SPRAY PAVER AND EMULSION 410-R-418 SMA SPRAY PAVER AND EMULSION

410-R-418 SMA SPRAY PAVER AND EMULSION

(Adopted 05-21-20)

The Standard Specifications are revised as follows:

SECTION 410, BEGIN LINE 21, INSERT AS FOLLOWS:

410.03 Materials

Materials shall be in accordance with the following:

Asphalt Emulsion	902.01(b)2
Asphalt Materials	
PG Binder, PG 76-22, PG 70-22	902.01(a)
Coarse Aggregates, Class AS	904
Fibers	AASHTO M 325
Fine Aggregates (sand, mineral filler)	904

SECTION 410, BEGIN LINE 238, DELETE AND INSERT AS FOLLOWS:

Milled asphalt surfaces and asphalt surfaces shall be tacked in accordance with 406, except surfaces shall be tacked in accordance with 401.14 when mixture is placed with paving equipment in accordance with 409.03(c)4. Contact surfaces of curbing, gutters, manholes, and other structures shall be tacked in accordance with 406.

SECTION 410, BEGIN LINE 251, INSERT AS FOLLOWS:

410.14 Spreading and Finishing

The mixture placed on a shoulder, approach, taper, or gore area that is not placed simultaneously with a travel lane, turn lane, auxiliary lane, or ramp, shall be placed by means of laydown equipment in accordance with 409.03(c)1, 409.03(c)2, or 409.03(c)3 and tacked in accordance with 406 and 409.03(a). No additional payment will be made if the Contractor elects to use equipment and materials in accordance with 409.03(c)4 and 902.01(b)2.

The mixture placed on all travel lanes, turn lanes, auxiliary lanes, and ramps shall be placed upon an approved surface by means of laydown equipment in accordance with 409.03(c)4. This shall include a mixture placed simultaneously with a travel lane, turn lane, auxiliary lane, or ramp.

The spray paver emulsion, in accordance with 902.01(b)2, shall be applied at a temperature recommended by the emulsion supplier and applied uniformly across the entire width of pavement to be overlaid. Equipment shall not operate on the applied emulsion before the asphalt mix is placed.

The asphalt emulsion spray bar affixed to the spray paver shall not be turned off while applying the HMA except when passing over the plate sampling area. The plate sampling area shall be defined as 3.0 ft or less from the first edge of the plate sample

REVISION TO SPECIAL PROVISIONS

401-R-417 HMA SPRAY PAVER AND EMULSION 410-R-418 SMA SPRAY PAVER AND EMULSION

encountered going upstream and continuing to 3.0 ft or less from the last edge of the plate sample encountered going upstream. This shall include any contractor plate samples. Tack coat will not be required in the plate sampling area.

The application rates of the spray paver emulsion are shown in the table below.

Spray Paver Emulsion Application Rate				
and Adjustment Factors for Surface Conditions				
Mixture Designation	19.0 mm	12.5 mm	9.5 mm	
Tack Emulsion Application Rate, gal./sq yd	0.25	0.20	0.17	
Existing Surface Condition		Adjustment to		
Existing Surface Condition	application rate, gal./sq yd			
PCCP, smooth or polished	-0.03	-0.03	-0.03	
PCCP, broomed or textured	0	0	0	
Flushed asphalt concrete surface	-0.02	-0.03	-0.03	
Dense, unaged asphalt concrete surface	0	0	0	
Open textured, dry, aged or oxidized	+0.02	+0.01	+0.01	
asphalt concrete surface	+0.02	+0.01	±0.01	
Milled asphalt concrete surface	+0.02	+0.01	+0.01	

A pre-paving meeting between the Engineer and the Contractor shall be held onsite prior to beginning work. The following shall be reviewed:

- (a) work schedule
- (b) traffic control plan
- (c) equipment calibrations and adjustments
- (d) inspection and evaluation of the condition and adequacy of equipment, including units for transport of materials
- (e) design mix formula
- (f) the Contractor's proposed emulsion and mix application rates
- (g) QCP in accordance with ITM 803
- (h) the Contractor's authorized representative.

Mixtures in areas inaccessible to mechanical devices may be placed by other methods. The temperature of mixture at the time of spreading shall be no more than 315°F whenever PG 70-22 binder is used or no more than 325°F whenever PG 76-22 binder is used. The temperature of each mixture shall not be less than 245°F at the time of spreading when placed with paving equipment in accordance with 409.03(c)2 or 409.03(c)3. No mixture shall be placed on a previously paved course that has not cooled to less than 175°F.

SECTION 410, AFTER LINE 488, INSERT AS FOLLOWS: Spray paver emulsion will be measured by the ton.

Mr. Reilman Date: 3/18/21

REVISION TO SPECIAL PROVISIONS

401-R-417 HMA SPRAY PAVER AND EMULSION 410-R-418 SMA SPRAY PAVER AND EMULSION

SECTION 410, AFTER LINE 497, INSERT AS FOLLOWS:

The accepted quantities of spray paver emulsion will be paid for at the contract unit price per ton, complete in place.

Adjustments to the contract payment with respect to mixture, density, and smoothness for mixture produced will be included in a quality assurance adjustment pay item. The unit price for this pay item will be \$1.00 and the quantity will be in units of dollars. The quantity is the total calculated in accordance with 410.19. A change order developed in accordance with 109.05 will be prepared to reflect contract adjustments.

Payment will be made under:

Pay Item	Pay Unit Symbo
Joint Adhesive,	LFT
course type	Y
SMA Spray Paver Emulsion	TON
QC/QA-HMA, , , , mm,	- SMATON
$(ESAL^{(1)})(PG^{(2)})(Course^{(3)})(Mix^{(4)})$	
Quality Assurance Adjustment	DOL
(1) ESAL Category as defined in 410.04	
(2) Number represents the high temperature binde	r grade. Low
temperature grades are - 22	
(3) Surface or Intermediate	
(4) Mixture Designation	

SECTION 409, AFTER LINE 84, INSERT AS FOLLOWS:

4. Spray Paver

The paver shall be in accordance with 409.03(c)1 except as follows:

- (a) The paver shall be self-priming, designed and built for applying the HMA and the asphalt emulsion simultaneously. The paver shall have a receiving hopper, feed system, asphalt emulsion storage tank, a calibrated metering system for measuring the emulsion volume applied, spray bar and a heated, variable width, combination vibratory screed or a combination vibratory-tamping bar screed.
- (b) The paver shall be capable of spraying the asphalt emulsion, applying the asphalt mix and leveling the surface of the mat in one pass.

Mr. Reilman Date: 3/18/21

COMMENTS AND ACTION

401-R-417 HMA SPRAY PAVER AND EMULSION 410-R-418 SMA SPRAY PAVER AND EMULSION

DISCUSSION:

Mr. Reilman introduced and presented this item explaining that there has been some confusion on spray paver usage when the plans dictate that the shoulder is to be placed simultaneously with the mainline pavement.

Mr. Reilman proposed to incorporate the above shown revisions which will clarify the specifications for when HMA is exempted from spray paver use.

Mr. Koch asked if the use of negative language for 409.03(c)1-3 will create potential confusion with the spray paver. Mr. Awwad suggested the revisions shown above, in 401.14 and 410.14, which may make more sense and may properly account for any odd scenarios. Mr. Reilman revised his motion.

These will remain as RSPs with the revised Basis for Use of ""Required for contracts as determined by the Division of Materials and Tests."

There was no further discussion and this item passed as revised.

Motion: Mr. Reilman Second: Mr. Koch	Action:	
Ayes: 10		Passed as Submitted
Nays: 0	X	Passed as Revised
FHWA Approval: <u>YES</u>		Withdrawn
Standard Specifications Sections referenced and/or affected:		2024 Standard Specifications
		Revise Pay Items List
401 begin pg. 287;		
410 begin pg. 336.		Create RSP (No)
		Effective:
Recurring Special Provision references in:		RSP Sunset Date:
neediting special revision references in		nor sunset succ.
401-R-417 HMA SPRAY PAVER AND EMULSION	<u>X</u>	Revise RSP (No. <u>401-R-417 , 410-R-418)</u>
410-R-418 SMA SPRAY PAVER AND EMULSION		Effective: September 1, 2021
410-R-416 SIVIA SPRAT PAVER AND EIVIOLSION		
		RSP Sunset Date:
Standard Drawing affected:		
		Standard Drawing
NONE		Effective:
Design Manual Sections affected:		Create RPD (No)
X Y		Effective:
NONE		
y		GIFE Update
GIFE Sections cross-references:		on 2 opuace
dil E Sections cross-references.		Cita Managor Undata
NONE		SiteManager Update
NONE		
	_	Frequency Manual Update

STANDARD SPECIFICATIONS, SPECIAL PROVISIONS AND STANDARD DRAWINGS

REVISION TO STANDARD SPECIFICATIONS AND SPECIAL PROVISION

PROPOSAL TO STANDARDS COMMITTEE

PROBLEM(S) ENCOUNTERED: The amount of latex modifier required in the 509 specification was inadvertently omitted.

PROPOSED SOLUTION: Include a statement showing the required amount of latex modifier in 509.04(b).

APPLICABLE STANDARD SPECIFICATIONS: None

APPLICABLE STANDARD DRAWINGS: None

APPLICABLE DESIGN MANUAL SECTION: Yes

APPLICABLE SECTION OF GIFE: TBD

APPLICABLE RECURRING SPECIAL PROVISIONS: 509-R-722

PAY ITEMS AFFECTED: None

APPLICABLE SUB-COMMITTEE ENDORSEMENT: None

IMPACT ANALYSIS (attach report):

Submitted By: Jim Reilman

Title: State Materials Engineer

Organization: INDOT, Division of Materials and Tests

Phone Number: 317-522-9692

Date: 3/10/21

STANDARD SPECIFICATIONS, SPECIAL PROVISIONS AND STANDARD DRAWINGS

REVISION TO STANDARD SPECIFICATIONS AND SPECIAL PROVISION

IMPACT ANALYSIS REPORT CHECKLIST

Explain the business case as to why this item should be presented to the Standards Committee for approval. Answer the following questions with Yes, No or N/A.

<u>Does this item appear in any other specification sections?</u> No <u>Will approval of this item affect the Approved Materials List?</u> No Will this proposal improve:

Construction costs? N/A

Construction time? N/A

Customer satisfaction? N/A

Congestion/travel time? N/A

Ride quality? N/A

Will this proposal reduce operational costs or maintenance effort? N/A Will this item improve safety:

For motorists? N/A

For construction workers? N/A

Will this proposal improve quality for:

Construction procedures/processes? N/A

Asset preservation? N/A

Design process? N/A

Will this change provide the contractor more flexibility? N/A

Will this proposal provide clarification for the Contractor and field personnel? Yes

Can this item improve/reduce the number of potential change orders? N/A

Is this proposal needed for compliance with:

Federal or State regulations? No

AASHTO or other design code? No

Is this item editorial? No

<u>Provide any further information as to why this proposal should be placed on the Standards Committee meeting Agenda:</u>

REVISION TO STANDARD SPECIFICATIONS AND SPECIAL PROVISION

509-R-722 PCCP JOINT REPAIR

(Note: Proposed changes shown highlighted gray.

This RSP 509-R-722 was considered on <u>December 17, 2020</u> meeting and approved to be incorporated into 2022 SS. Only affected section shown here. For a full content of this RSP please go to: https://www.in.gov/dot/div/contracts/standards/rsp/sep19/sec500.htm)

509-R-722 PCCP JOINT REPAIR

(Adopted 12-17-20)

[509.04 Concrete Mix Criteria]

(b) RHCC, LMC, or LMC-VE

RHCC, LMC, or LMC-VE shall be proportioned to meet the following requirements and properties:

Portland cement content for LMC	658 lb/cu yd, minimum
Rapid hardening cement content	Y
for RHCC or LMC-VE	658 lb/cu yd, minimum
Latex modifier for LMC or LMC-VE	
Maximum allowable water/cementitious ratio	
for LMC	0.400^{4}
Maximum allowable water/cementitious ratio	
for LMC-VE	0.440^{4}
Maximum allowable water/cementitious ratio	
for RHCC	0.450^{B}
Slump	
Air content for RHCC	$6.5\% \pm 1.5\%^{D}$
Air content for LMC and LMC-VE	0.0% - 6.0%
Minimum modulus of rupture	$500 psi^E$
Minimum compressive strength	$3,200 psi^E$
Maximum shrinkage in air	

^A Including the water in the latex.

^B During production of RHCC, the water cement ratio shall be maintained within ± 0.020 of the target stated on the CMDP, not to exceed 0.450.

^C Measured four to five minutes after discharge from the mixer.

D If the RHCC has a permeability of 900 coulombs or less at 56 days, the acceptable range of air content is allowed to be the same as LMC and LMC-VE. Verification of this property will be determined from testing of specimens cast at the trial batch. Testing will be done per AASHTO T277, with the value determined by averaging the result of two specimens.

^E Concrete beams and cylinders cast for the purpose of evaluating the mix criteria shall be cured in accordance with AASHTO T23 Section 10.1, Standard Cure conditions. RHCC and LMC-VE shall achieve the

Mr. Reilman Date: 3/18/21

REVISION TO STANDARD SPECIFICATIONS AND SPECIAL PROVISION

509-R-722 PCCP JOINT REPAIR

minimum modulus of rupture in 12 hours or less. LMC shall achieve the minimum modulus of rupture in 24 hours or less. RHCC, LMC and LMC-VE shall provide opening to traffic within the requirements for maintenance of traffic and lane closure restrictions.

F The maximum allowable shrinkage will only apply if the Contractor requests to omit tooling the longitudinal joint prior to sawing. Testing shall be in accordance with ASTM C157 and conducted on specimens cast from concrete at the trial batch. Approval will be based on a Type A certification in accordance with 916, which shall be submitted to the Department's Concrete Engineer.

(c) RSP

Prepackaged RSP material may be extended with a coarse aggregate as recommended

[.....]

Item 3 (2020 SS) (contd.)

Mr. Reilman Date: 3/18/21

COMMENTS AND ACTION

509-R-722 PCCP JOINT REPAIR

DISCUSSION:

This item was introduced and presented by Mr. Reilman who <u>humbly</u> explained that the amount of latex modifier required in the 509 specification was inadvertently omitted.

Mr. Reilman proposed to include a statement showing the required amount of latex modifier in 509.04(b).

Since this RSP has been incorporated into the new 2022 spec book, it is proposed to also incorporate this minor revision into the 2022 spec book, and not create a new RSP.

There was no further discussion and this item passed as submitted.

Motion: Mr. Reilman Second: Mr. Novak Ayes: 10 Nays: 0	Action:	Passed as Submitted Passed as Revised
FHWA Approval: YES		Withdrawn
Standard Specifications Sections referenced and/or affected:	<u>X</u>	2022 Standard Specifications
		Revise Pay Items List
		Create RSP (No)
Recurring Special Provision references in:	<u> </u>	Effective:
nessiming special revision references in		RSP Sunset Date:
NONE		
		Revise RSP (No)
Standard Drawing affected:	_	Effective:
		RSP Sunset Date:
NONE		
		Standard Drawing
Design Manual Sections affected:		Effective:
NONE		Create RPD (No.)
y	—	Effective:
GIFE Sections cross-references:		
		GIFE Update
NONE		
	_ <mark>X</mark> _	SiteManager Update
	_	
	l	Frequency Manual Update