

**Supplemental Specifications to the
Standard Specifications for Road and Bridge Construction, 2019 Edition
Effective with the June 25, 2021 Letting**

Section:	103.06 EXECUTION OF CONTRACT
Revision:	Replace the first sentence with the following: Within 30 calendar days after receiving the Contract, execute and return to the Department along with the following items:
Section:	103.06 EXECUTION OF CONTRACT
Revision:	Remove the requirement to print documents, by replacing the second sentence in the second paragraph with the following: Execute these documents.
Section:	103.08 FAILURE TO EXECUTE CONTRACT
Revision:	Change the allowable time before possible nullification of award from 15 to 30 calendar days, by replacing the first sentence with the following: The bidder's failure to execute the Contract or to comply with all requirements of Subsection 103.06 within 30 calendar days after receipt of the Contract will be just cause for the Department to nullify the award.
Section:	105.03 Record Plans
Revision:	Replace the last sentence in this subsection with the following: The Department will furnish the Contractor with an electronic file copy of the Record Plans at the Pre-Construction conference.
Section:	103.06.01 (incorrect in book) Commercial General Liability
Page:	107-9
Revision:	Renumber section as 107.18.01
Section:	103.06.02 (incorrect in book) Business Automobile Liability
Page:	107-9
Revision:	Renumber section as 107.18.02
Section:	103.06.03 (incorrect in book) Workers' Compensation Insurance and Employer's Liability Insurance
Page:	107-9
Revision:	Renumber section as 107.18.03
Section:	109.07.01 Liquid Asphalt
Revision:	Remove the following items from the list of 'Adjustable Contract Items': Asphalt Curing Seal Asphalt Prime Coat Asphalt Material for Tack Asphalt Materials for Preventive Maintenance applications Asphalt Seal Coat

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Section:	109.07.02 Fuel									
Revision:	Change the Fuel/Work ratio for the items listed below:									
	<table style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: left;"><u>Item</u></th> <th style="text-align: center;"><u>Threshold Quantity</u></th> <th style="text-align: center;"><u>Fuel/Work</u></th> </tr> </thead> <tbody> <tr> <td>Drainage Blanket, Asphalt Treated</td> <td style="text-align: center;">5,000 tons</td> <td style="text-align: center;">0.75</td> </tr> <tr> <td>Asphalt Mixtures for Pavements or Shoulders</td> <td style="text-align: center;">3,000 tons</td> <td style="text-align: center;">0.75</td> </tr> </tbody> </table>	<u>Item</u>	<u>Threshold Quantity</u>	<u>Fuel/Work</u>	Drainage Blanket, Asphalt Treated	5,000 tons	0.75	Asphalt Mixtures for Pavements or Shoulders	3,000 tons	0.75
<u>Item</u>	<u>Threshold Quantity</u>	<u>Fuel/Work</u>								
Drainage Blanket, Asphalt Treated	5,000 tons	0.75								
Asphalt Mixtures for Pavements or Shoulders	3,000 tons	0.75								
Section:	214.03 CONSTRUCTION									
Revision:	Add the following as the final paragraph in the section: Demonstrate to the Engineer that the placement technique prevents damage to the fabric.									
Section:	214.03 CONSTRUCTION									
Subsection:	214.03.03 Slope Protection and Channel Lining									
Revision:	Replace the first paragraph with the following: Place geotextile fabric for slope protection / geotextile fabric for channel lining with the long dimension parallel to the channel or toe of slope.									
Section:	214.03 CONSTRUCTION									
Subsection:	214.03.04 Underdrains									
Revision:	Replace the first sentence in the subsection with the following: Place and shape geotextile fabric for subsurface drainage to the sides and bottom of the trench without stretching the fabric.									
Section:	214.03 CONSTRUCTION									
Subsection:	214.03.05 Subgrade or Embankment Foundation Stabilization									
Revision:	Rename the subsection as follows: Subgrade Stabilization / Rock Roadbed									
Section:	214.03 CONSTRUCTION									
Subsection:	214.03.05 Subgrade Stabilization / Rock Roadbed									
Revision:	Replace the first (1st) paragraph of the subsection with the following: Place geotextile fabric for stabilization, unless otherwise noted. Install with the long dimension parallel to the long dimension of the area to be covered.									
Section:	214.03 CONSTRUCTION									
Subsection:	214.03.05 Subgrade Stabilization / Rock Roadbed									
Revision:	Add the following as the final paragraph in the section: Place, spread, and compact rock or backfill in such a manner that minimizes the development of wrinkles and movement in the fabric. In curves and intersections, cut the fabric and overlay appropriately. Keep the turning of tracked vehicles to a minimum to prevent displacement of the fill and damage to the fabric. Repair any damage caused during placement or by vehicles.									

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Section:	214.03 CONSTRUCTION
Subsection:	214.03.06 Drainage Blanket
Revision:	Replace the first sentence in the subsection with the following: Place geotextile fabric for subsurface drainage with the long dimension parallel to the long dimension of the area to be covered.
Section:	214.03 CONSTRUCTION
Subsection:	214.03.07 Embankment Foudation Working Platform
Revision:	Add the following as new subsection 214.03.07: 214.03.07 Embankment Foundation Working Platform. To facilitate embankment construction over soft ground, place geotextile fabric for separation unless otherwise specified. Place as directed in the plans or by the Engineer. Install with the long dimension parallel to the long dimension of the area to be covered. Leave surface vegetation in place. During back dumping and spreading, do not allow the wheels of trucks, dozer blades, and other equipment to come into direct contact with the fabric. Spread the material in the direction of the fabric overlap. To avoid damage to the geotextile fabric, dump rock fill behind the leading edge of the rock layer, then blade into place. Repair any damage caused during placement or by vehicles. If large fabric wrinkles develop during spreading operations, fold and flatten the wrinkles in the direction of spreading. Avoid large folds which reduce the fabric overlap width.
Section:	214.05 PAYMENT
Revision:	Remove the following from list of pay items: 02596-02599 Fabric-Geotextile, Type Square Yard
Section:	214.05 PAYMENT
Revision:	Add the following to the list of pay items: 02602 Fabric-Geotextile Class 1 Square Yard 02603 Fabric-Geotextile Class 2 Square Yard
Section:	215.02 MATERIALS
Subsection:	215.02.01 Geotextile Fabric
Revision:	Replace the text in this subsection with the following: Conform to Section 843.
Section:	215.03 CONSTRUCTION
Revision:	Replace the second sentence in the final paragraph with the following: Place a protective ring using geotextile fabric for subsurface drainage and separation; clean No. 2 aggregate or shot rock of similar size, quality, and gradation approved by the Engineer; and crushed aggregate.
Section:	215.05 PAYMENT
Revision:	Remove the following from list of pay items: 02596-02599 Fabric-Geotextile, Type Square Yard

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Section:	215.05 PAYMENT																							
Revision:	Add the following to the list of pay items: 02602 Fabric-Geotextile Class 1 Square Yard 02603 Fabric-Geotextile Class 2 Square Yard																							
Section:	402.05.02 Asphalt Mixtures, HMA and WMA, Including Mixtures with Reclaimed Material																							
Revision:	Replace the last sentence in this section with the following: Each lot pay value will be averaged to determine the final overall bid item pay.																							
Section:	402.05.02 Asphalt Mixtures, HMA and WMA, Including Mixtures with Reclaimed Material																							
Part:	LOT PAY ADJUSTMENT SCHEDULE COMPACTION OPTION A BASE AND BINDER MIXES																							
Table:	AV																							
Revision:	Replace the table with the following:																							
	<table border="1" style="margin-left: auto; margin-right: auto; border-collapse: collapse;"> <thead> <tr> <th colspan="3" style="text-align: center;">AV</th> </tr> <tr> <th rowspan="2" style="text-align: center;">Pay Value</th> <th colspan="2" style="text-align: center;">Test Result (%)</th> </tr> <tr> <th style="text-align: center;">AADTT Class 2</th> <th style="text-align: center;">AADTT Class 3 or 4</th> </tr> </thead> <tbody> <tr> <td style="text-align: center;">1.05</td> <td style="text-align: center;">3.2-3.8</td> <td style="text-align: center;">3.2-3.8</td> </tr> <tr> <td style="text-align: center;">1.00 + 0.1 (AV-3.0)</td> <td style="text-align: center;">1.5-3.1</td> <td style="text-align: center;">2.0-3.1</td> </tr> <tr> <td style="text-align: center;">1.00 + 0.1 (4.5-AV)</td> <td style="text-align: center;">3.9-6.0</td> <td style="text-align: center;">3.9-6.0</td> </tr> <tr> <td style="text-align: center;">0.75</td> <td style="text-align: center;">6.1-6.5</td> <td style="text-align: center;">----</td> </tr> <tr> <td style="text-align: center;"><i>(1)</i></td> <td style="text-align: center;">< 1.5 or > 6.5</td> <td style="text-align: center;">< 2.0 or > 6.0</td> </tr> </tbody> </table>	AV			Pay Value	Test Result (%)		AADTT Class 2	AADTT Class 3 or 4	1.05	3.2-3.8	3.2-3.8	1.00 + 0.1 (AV-3.0)	1.5-3.1	2.0-3.1	1.00 + 0.1 (4.5-AV)	3.9-6.0	3.9-6.0	0.75	6.1-6.5	----	<i>(1)</i>	< 1.5 or > 6.5	< 2.0 or > 6.0
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Pay Value	Test Result (%)																							
	AADTT Class 2	AADTT Class 3 or 4																						
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Section: 402.05.02 Asphalt Mixtures, HMA and WMA, Including Mixtures with Reclaimed Material
Part: LOT PAY ADJUSTMENT SCHEDULE COMPACTION OPTION A SURFACE MIXES
Table: AV
Revision: Replace the table with the following:

AV		
Pay Value	Test Result	
	(%)	
	AADTT Class 2	AADTT Class 3 or 4
1.05	3.2-3.8	3.2-3.8
1.00 + 0.1 (AV-3.0)	1.5-3.1	2.0-3.1
1.00 + 0.1 (4.5-AV)	3.9-6.0	3.9-6.0
0.75	6.1-6.5	----
<i>(1)</i>	< 1.5 or > 6.5	< 2.0 or > 6.0

Section: 501.03.019 Surface Tolerances and Testing Surface
Part: B) Ride Quality
Subpart: 2) Category A Requirements
Revision: Replace the last sentence in the first paragraph with the following:
 At the Department's discretion, a pay deduction of \$1200 per 0.1-lane-mile section may be applied in lieu of corrective work.

Section: 501.03.19
Part: B)
Subpart: 3) Category B Requirements
Revision: Replace the last sentence in the first paragraph with the following:
 At the Department's discretion, a pay deduction of \$750 per 0.1-lane-mile section may be applied in lieu of corrective work.

Section: 508.05 Payment
Revision: Add the following codes to available Concrete Median Barrier, Type:
 01968-01977

Section: 603.03.05 Drainage
Revision: In the eighth (8th) paragraph, remove "type IV" from the fabric references in the first (1st) and third (3rd) sentences.

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Section:	607.03.02
Part:	(a) Prequalification
Revision:	Remove the following item to the list entitled "Fabricators having SBR, IBR, ABR, or CPT certification may fabricate the following": · Armored Edges
Section:	607.03.02
Part:	(a) Prequalification
Revision:	add the following items to the list entitled "AISC certification not required for the following": · Armored Edges or joints with a nominal width of 4 inches or less · Railing System Type II
Section:	609.05 PAYMENT
Revision:	add the following line to the table "Schedule for Adjusted Quantity for Depth of Cover Deficiency" Depth of Cover Deficiency (inches) +0.26 to +0.50 ⁽⁴⁾ Quantity Adjustment Factor 0.06
Section:	609.05 PAYMENT
Part:	Note (4) under "Schedule for Adjusted Quantity for Depth of Cover Deficiency"
Revision:	Replace note (4) with the following: Quantity Adjustment Factor only applies if the Contractor elects to have the bridge deck cored as per KM 64-313. If the Contractor accepts adjustment based on the pachometer readings, this Quantity Adjustment Factor is 0.00.
Section:	615 PRECAST THREE SIDED STRUCTURES
Revision:	Insert complete Section 615
Section:	701.05 PAYMENT
Revision:	Remove the following from the list of pay items: 02600 Fabric-Geotextile Type IV for Pipe Square Yard ⁽²⁾
Section:	701.05 PAYMENT
Revision:	Add the following to the list of pay items: 02600 Fabric-Geotextile Class 2 for Pipe Square Yard ⁽²⁾
Section:	701.05 PAYMENT
Revision:	Replace "Type IV" in the item name in note ⁽²⁾ with "Class 2"
Section:	715.02.07 "Pop" Fasteners
Revision:	Remove this section in its entirety.
Section:	715.01 DESCRIPTION
Revision:	Replace the second sentence with the following: Panel Signs may be ground mounted, overhead structure mounted, or bridge mounted signs.
Section:	715.02.03 Steel Reinforcement
Revision:	Change section reference from 602 to 811.

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Section:	715.03 CONSTRUCTION
Revision:	Remove all but the first paragraph from this Section. 715.03 will now read as follows: The Department may inspect fabrication and erection work. The Department will perform a day and night inspection after the installation is complete.
Section:	715.03.01 Location
Revision:	Remove the first and fourth sentences from this Section, and insert 'to the plans' into the final sentence. The Section will now read as follows: Consider sign locations specified in the Plans as approximate only. Determine the exact location for each sign and obtain the Engineer's approval. Center overhead signs over the lane or lanes to which they apply. Allow for differences in elevation across the full shoulder width, as specified in the Plans, in maintaining the required 18-foot minimum vertical clearance to the bottom of the lowest parts of the signs or supports for overhead signs. Submit all proposed revisions to the plans in writing to the Engineer for written approval.
Section:	715.03.02 Messages
Revision:	Delete entire Section
Section:	715.03.03 Attachment
Revision:	Renumber as 715.03.02 Attachment
Section:	715.03.02 Attachment
Revision:	Replace section with the following: Letters, symbols, numbers, and borders are to be attached to the sign face using the 'direct applied' method.
Section:	715.03.04 Shields
Revision:	Delete entire Section
Section:	715.03.05 Covering
Revision:	Renumber as 715.03.03 Covering
Section:	715.03.06 Shop Drawings
Revision:	Renumber as 715.03.04 Shop Drawings
Section:	715.03.07 Fabrication
Revision:	Renumber as 715.03.05 Fabrication
Section:	715.03.08 Footings, Bases, and Pedestals
Revision:	Renumber as 715.03.06 Footings, Bases, and Pedestals
Section:	715.03.06 Footings, Bases, and Pedestals
Revision:	Add the following as the first sentence in the third paragraph: Use Class A concrete according to Subsection 601.03.
Section:	715.03.09 Sign Beams and Supports
Revision:	Renumber as 715.03.07 Sign Beams and Supports
Section:	715.03.07 Sign Beams and Supports
Revision:	Remove "and Type "B" " from the third sentence in the first paragraph.

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Section:	715.03.07 Sign Beams and Supports
Part:	B)
Revision:	Remove part B) Type B Beam
Section:	715.03.07 Sign Beams and Supports
Part:	C) Type C Beam
Revision:	Change part number as follows: B) Type C Beam
Section:	715.03.07 Sign Beams and Supports
Part:	C) Type D Breakaway Supports
Revision:	New part C) after removal of Type B Beam from list with text as follows: Specifications for Type D breakaway supports are listed on the details sheet for Type "D" supports.
Section:	715.03.10 Bridge Mounting for Signs
Revision:	Renumber section as 715.03.08 Bridge Mounting for Signs
Section:	715.03.11 Mounting Signs
Revision:	Renumber section as 715.03.09 Bridge Mounting for Signs
Section:	715.03.10 Logo Signs
Revision:	Insert new section 715.03.10 Logo Signs, with text as follows: Unless directed in the project plans, existing logo panel signs are to be kept in service during construction. Contact the logo contractor if signs are to be out of service for more than one day. Temporary installations shall be on square wood posts (with the holes drilled in the bottom, per the detail sheet, for locations not protected by guardrail, barrier wall, etc.).
Section:	715.04.03 Sign Supports
Revision:	Replace the second paragraph with the following: The Department will not measure clearing and grubbing or excavation for payment and will consider them incidental to this item of work.
Section:	715.04.06 Sign Panels
Revision:	add the following as the second paragraph in this section: The Department will not measure temporary panel signing for payment and will considered them incidental to this item of work.
Subsection:	716.03.10 Electrical Junction Box
Part:	B) Filter Fabric
Revision:	rename part B) to the following: Geotextile Fabric
Subsection:	716.03.10 Electrical Junction Box
Part:	B) Geotextile Fabric
Revision:	Replace the first sentence the part with the following: Before the installation of the #57 aggregate and junction box, the contractor shall install geotextile fabric for subsurface drainage and separation in the bottom of hole.

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Subsection: 725.04.06 Concrete, Class AA (for pads)
Revision: Replace this subsection with the following:
 The Department will not measure the quantities of Concrete Class AA, excavation, or steel reinforcement for payment, and will consider them incidental to Crash Cushion Type VII, Type VI, or Type VI-T.

Subsection: 725.05 PAYMENT
Revision: Remove the following from the list of pay items:
 08104 Concrete, Class AA Cubic Yard

Section: 804.04.04 Requirements for Combined Aggregates
Revision: Replace the table with the following:

FINE AGGREGATE CONSENSUS PROPERTY REQUIREMENTS			
AADTT Class	Design AADTT	Uncompacted Void Content of Fine Aggregate (Percent), ⁽¹⁾ Minimum	Sand Equivalent (Percent), Minimum
2	<600	40.0	40
3	600 to 2999	43.0	45
4	>3000	45.0	50

Section: 804.01 GENERAL.
Revision: Replace the second paragraph with the following:
 The Department’s List of Approved Materials includes the Aggregate Source List and the list of Class A and Class B Polish-Resistant Aggregate Sources, the Concrete Aggregate Restriction List, Lightweight Aggregate Source List, and Microsurface Aggregate Source List.

Section: 804.04.05 Microsurface.
Revision: Modify the Table as follows:

Sieve Size	Type II % Passing	Type III % Passing	Stockpile Tolerance
3/8 inch	100	100	
No. 4	90-100	70-90 70-100	± 5%
No. 8	65-90 60-90	45-70	± 5%
No. 16	45-70 40-70	28-50	± 5%
No. 30	30-50 25-50	19-34	± 5%
No. 50	18-30 15-30	12-25	± 4%
No. 100	10-21	7-18	± 3%
No. 200	5-15	5-15	± 2%

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Section: 805.01 GENERAL.
Revision: Replace the second paragraph with the following:
 The Department’s List of Approved Materials includes the Aggregate Source List, the list of Class A and Class B Polish-Resistant Aggregate Sources, the Concrete Aggregate Restriction List, Lightweight Aggregate Source List, and Microsurface Aggregate Source List.

Section: ASPHALT MIXTURES AND SEALS
Revision: Replace the table with the following:

COARSE AGGREGATE CONSENSUS PROPERTY REQUIREMENTS				
AADTT Class	Design AADTT	Coarse Aggregate Angularity (Percent)		Flat and Elongated ^(a) (Percent), maximum
		Crushed Faces		
		≥1	≥2	
2	<600	85	80	10
3	600 to 2999	95	90	10
4	≥ 3000	100	100	10

^(a) Criterion based on a 5:1 maximum-to-minimum ratio.

Section: 806.03.01 General Requirements.
Revision: Revise the Table with the following corrected values:

RTFO Residue						
Mass Loss, %	1.00 Max.	1.01-1.10	1.11-1.20	1.21-1.30	1.31-1.40	> 1.40
MSCR						
$J_{nr3.2}$, Max	0.5 kPa ⁻¹	< 4.70.7	4.71- 4.750.71-0.75	4.76- 4.800.76- 0.80	4.81- 4.850.81- 0.85	≥ 4.860.86
$J_{ar,diff}$, Max	75 %					

Section: 805.03.02 Physical Properties
Revision: Replace the first 2 lines in this section with the following:
 Wear (Except Slag, Granite, and Sandstone) 40% maximum
 Wear (Granite and Sandstone) 50% maximum

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Section:	814.06 MATERIALS FOR END TREATMENTS
Part:	A) Anchorage Systems
Revision:	Revise the minimum breaking strength to be 42,800, and replace reference to AASHTO M 30, Class C with AASHTO M 30, Class A.
Section:	816.07.03 Wood Posts and Braces
Revision:	Delete the last sentence of the first paragraph. The AWWA C 2 standard no longer exists.
Section:	820.01 Requirements
Revision:	Replace the second paragraph with the following: Treated timber poles shall meet the general requirements of this subsection and shall be treated according to AASHTO M133 in accordance with requirements of the current AWWA standards.
Section:	820.01 Requirements
Revision:	Delete the second sentence of the third paragraph.
Section:	830.02.01 Delineator Sheeting
Part:	A) Barrier Wall Delineator
Revision:	Replace text with the following: Use retroreflective sheeting conforming to ASTM D 4956, Type XI, Class 1.
Section:	830.02.01 Delineator Sheeting
Part:	B) Guardrail Delineator
Revision:	Replace text with the following: Use retroreflective sheeting conforming to ASTM D 4956, Type XI, Class 1.
Section:	830.02.01 Delineator Sheeting
Part:	C) Delineator Post
Revision:	Replace text with the following: Use retroreflective sheeting conforming to ASTM D 4956, Type XI, Class 1.
Section:	830.02.03 Drum Sheeting
Revision:	Replace text with the following: Use retroreflective sheeting conforming to ASTM D 4956. Use approved types for necessary colors on the Department's List of Approved Materials.
Section:	830.02.04 Cone and Tubular Marker Sheeting
Revision:	Replace text with the following: Use retroreflective sheeting conforming to ASTM D 4956. Use approved types for necessary colors on the Department's List of Approved Materials.
Section:	830.02.06 Permanent Sign Sheeting
Revision:	Replace text with the following: Use retroreflective sheeting conforming to ASTM D 4956, Type XI, Class 1.
Subsection:	834.07.05 Geotextile Filter Fabric Type IV
Revision:	Change the subsection title to the following: Geotextile Fabric
Section:	837.03 APPROVAL
Revision:	In the first sentence, replace 'AASHTO T-250' with 'KM 64-268'

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Section:	837.03 APPROVAL
Revision:	Replace the second sentence with the following: The Department will sample and evaluate for approval each shipment of each lot of thermoplastic material delivered for use per contract prior to installation of the thermoplastic material.
Section:	837.03.01 Composition
Revision:	Add the following sentence to the end of the paragraph: Manufacturers are to produce extruded thermoplastic in compliance with the values listed in Table 1.
Section:	837.03.01 Composition
Revision:	Label Composition table as new subsection '837.03.02 Table 1'.
Section:	837.03.02 Physical Characteristics
Revision:	Renumber subsection as 837.03.03
Section:	837.06 MANUFACTURER'S TESTING
Revision:	In the first sentence, replace 'AASHTO T-250' with 'KM 64-268'
Section:	837.09 ACCEPTANCE OF NON-SPECIFICATION COMPLIANT THERMOPLASTIC
Revision:	Add new subsection with the following text: The Department may accept thermoplastic found to be in non-conformance to the Specification Acceptance Range at a reduction in pay, see Table 2. Thermoplastic with analytical test results not conforming to the Specification Acceptance Range but within the Acceptance Range with Deduction may be accepted for incorporation into the project with applicable reductions in pay. Deductions are cumulative to a maximum of 60% reduction in pay applied to the contract unit bid price for the thermoplastic. Thermoplastic with three (3) or more analytical tests resulting in non-conformance to the Specification Acceptance Range or any analytical test result exceeding the Acceptance Range with Deduction will be rejected and removed from the project. Do not allow transfer of thermoplastic materials between projects that have analytical test results in the Acceptance Range with Deduction.

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Section:	837.10 Table 2
Revision:	Add new subsection titled 'Table 2' with the following table: 837.10 Table 2.

THERMOPLASTIC PRICE ADJUSTMENT SCHEDULE			
Analytical Test	Specification Acceptance Range	Acceptance Range with Deduction	Deduction Applied to Unit Cost
Binder, %	18.0 min.	16.0 -17.9	50%
Glass Beads % (Premixed)	30-40	28-30	20%
Titanium Dioxide, % for white	10.0 min.	9.0 -9.9	20%
Calcium Carbonate and Inert Fillers for white,	42.0 max.		
Calcium Carbonate and Inert Fillers for Yellow,	50.0 max.		
Heavy Metals Content	Comply with 40 CFR 261		
Color	6.0 ΔE*	6.0 ΔE*- 8.0 ΔE*	10%