



INDIANA DEPARTMENT OF TRANSPORTATION

100 North Senate Avenue
Room N758 CM
Indianapolis, Indiana 46204

www.in.gov/indot

Eric Holcomb, Governor
Mike Smith, Commissioner

AGENDA

July 18, 2024, Standards Committee Meeting

MEMORANDUM

July 1, 2024

TO: Standards Committee

FROM: Scott Trammell, Secretary

RE: Agenda for the July 18, 2024, Standards Committee Meeting

A Standards Committee meeting is scheduled for 09:00 a.m. on Thursday, July 18, and will be held virtually via *Teams* (Microsoft application). Please contact Scott Trammell (strammell@indot.in.gov) for instructions on how to join this event.

The following items are listed for consideration:

A. GENERAL BUSINESS

OLD BUSINESS

(No items on this agenda)

NEW BUSINESS

1. *Approval of the Minutes from the [June 20](#) meeting*

B. CONCEPTUAL PROPOSAL

Update the Standard Specifications and RSPs by replacing every occurrence of “fly ash” with “coal ash to match with the industry’s use of terms.....

J. Reilman [pg. 4](#)

C. STANDARD SPECIFICATIONS, SPECIAL PROVISIONS, AND STANDARD DRAWINGS PROPOSAL

OLD BUSINESS

<u>Item No. 3 (4/18/24)</u>	<u>Mr. White</u>	<u>pg. 5</u>
2024 Standard Specifications:		
703.06	Placing and Fastening	
703.08	Basis of Payment	

NEW BUSINESS

<u>Item No. 1</u>	<u>Mr. Novak</u>	<u>pg. 10</u>
Recurring Special Provision:		
107-R-169	STATEMENTS ABOUT EXISTING CONDITIONS OF UTILITIES, ADDITIONAL RIGHT-OF-WAY, AND ENCROACHMENTS	

<u>Item No. 2</u>	<u>Mr. Wooden</u>	<u>pg. 19</u>
2024 Standard Specifications:		
621.14	Basis of Payment	

<u>Item No. 3</u>	<u>Mr. Wooden</u>	<u>pg. 23</u>
2024 Standard Specifications:		
101.80	<i>Joint Ventures</i>	

<u>Item No. 4</u>	<u>Mr. Reilman</u>	<u>pg. 27</u>
2024 Standard Specifications:		
109.01	Measurement of Quantities	

<u>Item No. 5</u>	<u>Mr. Reilman</u>	<u>pg. 31</u>
2024 Standard Specifications:		
SECTION 301	AGGREGATE BASE	

<u>Item No. 6</u>	<u>Mr. Reilman</u>	<u>pg. 37</u>
2024 Standard Specifications:		
SECTION 303	AGGREGATE PAVEMENTS OR SHOULDERS	

[Item No. 7](#)

[Mr. Reilman](#)

[pg. 42](#)

2024 Standard Specifications:
905.05

Detectable Warning Surfaces

cc: Committee Members
FHWA
ICI

CONCEPTUAL

REVISION TO 2024 STANDARD SPECIFICATIONS

CONCEPTUAL PROPOSAL

PROBLEM(S) ENCOUNTERED: industry has changed from using the term “fly ash” to using “coal ash”.

PROPOSED SOLUTION: update the Standard Specifications and RSPs by replacing every occurrence of “fly ash” with “coal ash”.

APPLICABLE STANDARD SPECIFICATIONS: several sections

APPLICABLE STANDARD DRAWING: none

APPLICABLE DESIGN MANUAL CHAPTER:

APPLICABLE SECTION OF GIFE: 8.2, 8.17

APPLICABLE RECURRING SPECIAL PROVISION OR PLAN DETAILS: The RSP library should also be checked.

PAY ITEMS AFFECTED: None

APPLICABLE SUB-COMMITTEE ENDORSEMENT: N/A

IF APPROVED AS RECURRING SPECIAL PROVISION OR PLAN DETAILS, PROPOSED BASIS FOR USE: N/A

IMPACT ANALYSIS (attach report): N/A

Submitted By: Jim Reilman

Title: State Materials Engineer

Division: Materials and Tests

E-mail: jreilman@indot.in.gov

Date: 6/14/24

STANDARD SPECIFICATIONS, SPECIAL PROVISIONS AND STANDARD DRAWINGS

REVISION TO 2024 STANDARD SPECIFICATIONS

PROPOSAL TO STANDARDS COMMITTEE

PROBLEM(S) ENCOUNTERED: The *Standard Specifications* currently don't provide requirements for maximum spacing of support devices or spacers used to support reinforcing bars. The Department has recently observed honeycombing on the underside of reinforced concrete slabs, and ground penetrating radar, GPR, results indicating top cover thickness which varied significantly from plan. These are indications that the spacing of support devices may have been too large, resulting in displacement of the reinforcing bars during the placement of concrete.

PROPOSED SOLUTION: Revise section 703 to provide an upper limit on the spacing of support devices, and explicitly allow bent reinforcing bars to be used as support devices.

APPLICABLE STANDARD SPECIFICATIONS: 703.06, 703.08

APPLICABLE STANDARD DRAWING: N/A

APPLICABLE DESIGN MANUAL CHAPTER: 405, 406 (will be updated upon approval of specification change)

APPLICABLE SECTION OF GIFE: 5.12 (no changes anticipated)

APPLICABLE RECURRING SPECIAL PROVISION OR PLAN DETAILS: N/A

PAY ITEMS AFFECTED: N/A

APPLICABLE SUB-COMMITTEE ENDORSEMENT: Ad hoc committee including Mike Nelson, Andrew Pinkstaff, and Jim Reilman.

IF APPROVED AS RECURRING SPECIAL PROVISION OR PLAN DETAILS, PROPOSED BASIS FOR USE: All contracts that include 703 pay items

IMPACT ANALYSIS (attach report):

Submitted By: Pete White

Title: Design Manager

Division: INDOT Bridge Engineering

E-mail: pewwhite@indot.in.gov

Date: April 5, 2024

STANDARD SPECIFICATIONS, SPECIAL PROVISIONS AND STANDARD DRAWINGS

REVISION TO 2024 STANDARD SPECIFICATIONS

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? No

Will approval of this item affect the Qualified Products List (QPL)? No

Will this proposal improve:

Construction costs? No

Construction time? No

Customer satisfaction? No

Congestion/travel time? No

Ride quality? No

Will this proposal reduce operational costs or maintenance effort? Yes

Will this item improve safety:

For motorists? No

For construction workers? No

Will this proposal improve quality for:

Construction procedures/processes? Yes

Asset preservation? Yes

Design process? Yes

Will this change provide the contractor more flexibility? Yes

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

Can this item improve/reduce the number of potential change orders? No

Is this proposal needed for compliance with:

Federal or State regulations? No

AASHTO or other design code? No

Is this item editorial? No

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

REVISION TO 2024 STANDARD SPECIFICATIONS

SECTION 703 – REINFORCING BARS
703.06 Placing and Fastening
703.08 Basis of Payment

(Note: Proposed changes shown highlighted gray)

The Standard Specifications are revised as follows:

SECTION 703, BEGIN LINE 52, DELETE AND INSERT AS FOLLOWS:

703.06 Placing and Fastening

Reinforcing bars shall not be ordered for piers or bents to be founded on soil or rock until the foundation conditions have been investigated. The bottom elevations of such footings will then be determined. Written permission will then be given to order such reinforcing bars. Sufficient excavation and all necessary soundings shall be made as directed so that exact bottom elevations of footings may be determined.

All dimensions shown on the plans for spacing of reinforcing bars apply to centers of bars unless otherwise noted. All bars shall be accurately placed and, during placing of the concrete, held firmly in the position as shown on the plans. Distances from the forms shall be maintained by means of chairs, ties, hangers, or other approved support devices. All reinforcing bars shall be wired rigidly or fastened securely at sufficient intervals to hold the bars in place. ~~Welding of reinforcing bars shall not be performed.~~ Epoxy coated reinforcing bars shall be tied with epoxy coated or plastic coated tie wire. ~~Chairs and supports holding upper layers of reinforcing bars shall support the transverse bars.~~ The upper layer and lower layer of reinforcing bars in RCBA's and bridge floors shall be tied or fastened at a minimum of every other intersection of the longitudinal and transverse bars to prevent an upward or a lateral movement of a bar from the planned position.

Layers of reinforcing bars shall be separated by ~~spacers~~ *support devices in accordance with 910.01(b)11 or epoxy coated reinforcing bars.* Epoxy coated reinforcing bars used to separate and support layers of reinforcing bars shall be shop bent to the dimensions required to secure the layers of reinforcing bars in the positions shown on the plans. The size and spacing of support devices or epoxy coated reinforcing bars used as supports shall be such that the plan reinforcing bars are not displaced by the weight of concrete, upper layers of reinforcing bars, or construction loads, but in no case shall the spacing exceed 4 ft in any direction. Reinforcing bars shall be separated from horizontal surfaces by being suspended or supported on approved ~~chairs and spacers~~ *support devices* capable of supporting the designed loads. Supports and spacers shall be of such shape as to be easily encased in concrete. That portion which is in contact with the forms shall be non-corrosive and non-staining material. They shall be of an approved type. ~~Vertical stirrups shall always pass around main tension members and shall be securely attached thereto.~~ The use of pebbles, pieces of broken stone or bricks, metal pipe, wooden blocks, and similar devices for holding bars in position will not be allowed.

SECTION 703, BEGIN LINE 132, DELETE AND INSERT AS FOLLOWS:

703.08 Basis of Payment

The accepted quantities of reinforcing bars will be paid for at the contract price per pound, complete in place.

REVISION TO 2024 STANDARD SPECIFICATIONS

SECTION 703 – REINFORCING BARS
703.06 Placing and Fastening
703.08 Basis of Payment

If the substitution of reinforcing bars larger than those specified is allowed, payment will be made for only that weight which would be required if the specified bars had been used.

If the use of reinforcing bar lengths shorter than those shown on the plans is allowed for convenience in transporting or placing the bars, payment will be based on the weight of the lengths shown on the plans.

Payment for threaded tie bar assemblies will be at the contract unit price per each, complete in place. If epoxy coating is specified, payment for the assemblies will be at the contract unit price per each for threaded tie bar assembly, epoxy coated.

Payment will be made under:

Pay Item	Pay Unit Symbol
Reinforcing Bars	LBS
Reinforcing Bars, Epoxy Coated	LBS
Threaded Tie Bar Assembly	EACH
Threaded Tie Bar Assembly, Epoxy Coated	EACH

The cost of ~~metal chairs~~ *support devices or epoxy coated reinforcing bars used as supports*, spacers, clips, wire, or other mechanical means used for fastening or holding reinforcement in place, and laps shall be included in the cost of reinforcing bars. The cost of coating materials and repair of damaged or removed coating materials on reinforcing bars and on metal chairs, spacers, clips, or other mechanical means used for fastening or holding reinforcement in place, and laps shall be included in the cost of epoxy coated reinforcing bars. If threaded tie bar assemblies are used in lieu of spliced reinforcing bars as shown on the plans, the cost of such assemblies shall be included in the cost of reinforcing bars.

If WWR is required, the cost of furnishing and placing shall be included in the cost of the concrete in which it is placed.

COMMENTS AND ACTION

703.06 Placing and Fastening
 703.08 Basis of Payment

DISCUSSION:

<p>Motion: Second: Ayes: Nays: FHWA Approval:</p>	<p><u>Action:</u> <input type="checkbox"/> Passed as Submitted <input type="checkbox"/> Passed as Revised <input type="checkbox"/> Withdrawn</p>
<p>2024 Standard Specifications Sections: 703.06 pg. 650; 703.08 pg. 652.</p> <p>Recurring Special Provisions or Plan Details: NONE</p> <p>Standard Drawing affected: NONE</p> <p>Design Manual Chapter: NONE</p> <p>GIFE Section: NONE</p>	<p><input type="checkbox"/> 2026 Standard Specifications <input type="checkbox"/> Revise Pay Items List <input type="checkbox"/> Notification to Designers if change is <u>not</u> addressed by RSP</p> <p><input type="checkbox"/> Create RSP (No. __) Effective:</p> <p><input type="checkbox"/> Revise RSP (No. __) Effective:</p> <p><input type="checkbox"/> Standard Drawing Effective:</p> <p><input type="checkbox"/> Create RPD (No. __) Effective:</p> <p><input type="checkbox"/> GIFE Update <input type="checkbox"/> Frequency Manual Update <input type="checkbox"/> SiteManager Update</p>

PROPOSAL TO STANDARDS COMMITTEE

PROBLEM(S) ENCOUNTERED: The existing RSP 107-R-169 template provides little detail regarding utilities in the project area and utility relocations. Therefore, this information is often left out or added in non-standard format causing complications and confusion in construction.

There are also sections of the RSP 107-R-169 for right-of-way and encroachments. The submitter of the RSP is typically the utility coordinator who knows little about right-of-way or encroachments on the project. Therefore, this section is often left blank, excluded entirely, or includes inaccurate information, leaving contracts responsible to update the information following submission.

PROPOSED SOLUTION: The utility section of the RSP was updated to provide more information regarding each utility and more scenarios of relocations and schedules.

The location for detail of right-of-way and encroachments within the RSP was removed and replaced with stock language requiring the contractor to reference the right-of-way certification for information regarding right-of-way and rights of entry. The right-of-way certification will be uploaded as an additional contract document for bidders. Encroachments will be excluded from the RSP as the RSP is typically inaccurate regarding the encroachments. Detail will be and typically already is included in the plans and other specifications to detail what the contractor is responsible for related to encroachments.

APPLICABLE STANDARD SPECIFICATIONS: 103, 104, 105, 107, 108, 201, 202, 203, 725, 731, 732, 805, and 807 but no revisions necessary.

APPLICABLE STANDARD DRAWING: n/a

APPLICABLE DESIGN MANUAL CHAPTER: Chapters 85 (Right-of-Way Plans Preparation) and 104 (Utility Coordination) but no revisions necessary.

APPLICABLE SECTION OF GIFE: Sections 2 (General Instructions) and 14 (Utility Relocation Inspection Procedures) but no revisions necessary.

APPLICABLE RECURRING SPECIAL PROVISION OR PLAN DETAILS: RSP 107-R-169

PAY ITEMS AFFECTED: n/a

APPLICABLE SUB-COMMITTEE ENDORSEMENT: Division of Utilities and Railroad (Sam Anderson, Bill Plant) consulted with INDOT Divisions of Contract Administration, Real Estate, and Legal Services.

IF APPROVED AS RECURRING SPECIAL PROVISION OR PLAN DETAILS, PROPOSED BASIS FOR USE: Same as existing, Place in All Contracts.

IMPACT ANALYSIS (attach report): attached

Submitted By: Joe Novak for Bill Plant, Utility and Railroad Manager
Title: State Construction Engineer
Division: Construction Management
E-mail: jnovak@indot.in.gov
Date: 6/27/24

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? no

Will approval of this item affect the Qualified Products List (QPL)? no

Will this proposal improve:

Construction costs? no

Construction time? no

Customer satisfaction? no

Congestion/travel time? no

Ride quality? no

Will this proposal reduce operational costs or maintenance effort? no

Will this item improve safety:

For motorists? no

For construction workers? no

Will this proposal improve quality for:

Construction procedures/processes? no

Asset preservation? no

Design process? no

Will this change provide the contractor more flexibility? no

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

Can this item improve/reduce the number of potential change orders? no

Is this proposal needed for compliance with:

Federal or State regulations? no

AASHTO or other design code? no

Is this item editorial? no

Provide any further information as to why this proposal should be placed on the Standards Committee meeting Agenda: Revising this RSP template will provide clarity and standardization regarding utility and right-of-way impacts on a project. It will reduce the amount of times the 107 will need revised, the amount of people involved in completing and ultimately create more accuracy.

REVISION TO RECURRING SPECIAL PROVISION

107-R-169 STATEMENTS ABOUT EXISTING CONDITIONS OF UTILITIES, ADDITIONAL RIGHT-OF-WAY, AND ENCROACHMENTS

(Note: Proposed changes to currently used RSP additions are shown highlighted gray and deletions – strikethrough and highlighted gray)

107-R-169 STATEMENTS ABOUT EXISTING CONDITIONS OF UTILITIES, ADDITIONAL RIGHT-OF-WAY, AND ENCROACHMENTS

(Revised 05-20-23)

The Standard Specifications are revised as follows:

SECTION 107, AFTER LINE 762, INSERT AS FOLLOWS:

107.26 Existing Conditions of Utilities, Additional Right-of-Way, and Encroachments

Such existing conditions are as described below.

*Des Number(s) - Can be Multiple if Coordination was Treated as One Project}
{Roadway Name and Location}*

[NOTE TO THE UTILITY COORDINATOR - ONLY INCLUDE SECTION (a) BELOW IF LIMITED UTILITY INVOLVEMENT WAS DONE FOR THE PROJECT AND A FULL OR PARTIAL LIMITED CERTIFICATION WAS USED. ADD APPLICABLE COMPLETED PARAGRAPHS BELOW IT FOR UTILITIES THAT FULL COORDINATION WAS STILL REQUIRED. REMOVE THIS NOTE TO THE UTILITY COORDINATOR PRIOR TO SUBMITTING.]

(a) Utilities

Although there may be utilities in the project area, utilities received little to no contact regarding this project as it is not anticipated that utilities will be affected by the project except as described below. The Contractor shall use caution and shall follow safety precautions when digging, excavating, or working near utility lines.

[NOTE TO THE UTILITY COORDINATOR - ONLY INCLUDE SECTION (a) BELOW IF **NO** UTILITY COMPANIES ARE LOCATED NEAR THE PROJECT LIMITS. REMOVE THIS NOTE TO THE UTILITY COORDINATOR PRIOR TO SUBMITTING.]

(a) Utilities

There is no known involvement of utility companies or organizations located within the project limits. The Contractor shall use caution and follow all safety precautions when digging, excavating, or working, in case there are utilities not discovered or disclosed during the pre-construction utility investigation for this project.

[NOTE TO THE UTILITY COORDINATOR - ONLY INCLUDE SECTION (a) BELOW WITH A COMPLETED APPLICABLE PARAGRAPH FOR EACH UTILITY IDENTIFIED AS A PART OF THE PROJECT IF FULL COORDINATION WAS DONE ON THE PROJECT. REMOVE THIS NOTE TO THE UTILITY COORDINATOR PRIOR TO SUBMITTING.]

(a) Utilities

The status of all utility companies and organizations potentially involved with the

REVISION TO RECURRING SPECIAL PROVISION

107-R-169 STATEMENTS ABOUT EXISTING CONDITIONS OF UTILITIES, ADDITIONAL RIGHT-OF-WAY, AND ENCROACHMENTS

work to be performed are described below as ~~known at~~ of the time this contract was prepared.

The facilities of _____ exist within the project limits, but are not expected to be affected by the proposed construction. If questions arise, _____ of the utility may be contacted at _____.

The facilities of _____ exist within the project limits. Their facilities have been adjusted to accommodate construction. If questions arise, _____ of the utility may be contacted at _____.

The facilities of _____ exist within the project limits. It is anticipated that they will adjust their facilities for construction on or before _____, 20____. If questions arise, _____ of the utility may be contacted at _____.

The facilities of _____ exist within the project limits. The utility will be able to complete its involvement with the contract when the Contractor has completed _____ in the location of _____ such that the utility may adjust its facilities. It is anticipated that the utility will take approximately _____ calendar days to adjust its facilities in such area. If questions arise, _____ of the utility may be contacted at _____.

~~(b) Right-of-Way~~

~~There is no involvement of additional right of way for the contract.~~

~~(b) Right-of-Way~~

~~All additional right of way requirements for the contract have been cleared.~~

~~(b) Right-of-Way~~

~~All additional right of way requirements for the contract have been cleared except for the conditions at the parcels described below.~~

~~1. Occupied Parcels~~

~~The buildings existing on the parcels listed below are still occupied. Demolition of buildings, clearance of debris, and subsequent construction on such parcels will not be permitted until they have been vacated. However, such demolition, clearance, and construction in parcels other than those listed will be permitted. The properties listed below shall not be entered until authorized in writing.~~

<u>Parcel No.</u>	<u>Owner</u>	<u>Location</u>	<u>Estimated Date of Vacancy</u>
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~~2. Right-of-Entry~~

~~The right of entry to the following properties is anticipated as set out below. The properties listed below shall not be entered until authorized in writing.~~

REVISION TO RECURRING SPECIAL PROVISION

107-R-169 STATEMENTS ABOUT EXISTING CONDITIONS OF UTILITIES, ADDITIONAL RIGHT-OF-WAY, AND ENCROACHMENTS

<u>Parcel No.</u>	<u>Owner</u>	<u>Location</u>	<u>Estimated Date Right of Entry</u>
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(e) Encroachments

There is no involvement of encroachments for the contract.

(e) Encroachments

All known encroachments within the project limits have been removed or have been cleared to remain.

(e) Encroachments

All known encroachments within the project limits have been removed or have been cleared to remain, except as follows:

<u>Encroachment</u>	<u>Owner</u>	<u>Location</u>	<u>Estimated Clear Date</u>
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Utility In Conflict, Relocation Timeline - The facilities of {Utility Company} exist within the project limits and are expected to be affected by the project. The utility has {Existing Facility Type} located {Brief General Existing Facility Location}. The existing facility will be {Plan for Existing Facilities - ie removed or retired}. The utility is proposing {Proposed Facility Type} located {Brief General Proposed Facility Location}. See their work plan provided with the contract letting documents for additional details. Following {Party Utility is Dependent On} {What Shall be Done Before Utility Begins} in the location of {Location within Project} such that the utility may adjust its facilities, {Party Responsible for Communicating - Contractor, Construction Engineer, or Utility Coordinator} shall notify the utility that the utility can begin. It is anticipated that the utility will take approximately {Total Calendar Construction Days Including Ordering Material, Scheduling, and Construction} calendar days to complete its work plan. {Additional information, details, or requirements regarding utility if applicable} If questions arise, {Utility Contact} of the utility may be contacted at {Phone Number} or {Email Address}. The work plan was approved on {Date Work Plan was Approved}.

Utility in Conflict, Utility Received NTP - The facilities of {Utility Company} exist within the project limits and are expected to be affected by the project. The utility has {Brief General Existing Facility Type} located {Existing Facility Location}. The existing facility will be {Plan for Existing Facilities - ie removed or retired}. The utility is proposing {Proposed Facility Type} located {Brief General Proposed Facility Location}. See their work plan provided with the contract letting documents for additional detail. The utility was given Notice to Proceed on {Notice to Proceed Date}. It is anticipated that the utility will take approximately {Total Calendar Construction Days Including Ordering Material, Scheduling, and Construction} calendar days to complete its work plan. {Additional

REVISION TO RECURRING SPECIAL PROVISION

107-R-169 STATEMENTS ABOUT EXISTING CONDITIONS OF UTILITIES, ADDITIONAL RIGHT-OF-WAY, AND ENCROACHMENTS

information, details, or requirements regarding utility if applicable} If questions arise, {Utility Contact} of the utility may be contacted at {Phone Number} or {Email Address}. The work plan was approved on {Date Work Plan was Approved}.

Utility in Conflict, Work in Contract - The facilities of {Utility Company} exist within the project limits and are expected to be affected by the project. The utility has {Existing Facility Type} located {Brief General Existing Facility Location}. The Contractor shall complete this relocation as shown in the contract documents. {Additional information, details, or requirements regarding utility if applicable} If questions arise, {Utility Contact} of the utility may be contacted at {Phone Number} or {Email Address}. The work plan was approved on {Date Work Plan was Approved}.

Utility Relocation Complete - The facilities of {Utility Company} exist within the project limits. Their facilities have been adjusted to accommodate construction. The utility now has {Active Facility Type} located {Brief General Active Facility Location}. Their previous facilities consisting of {Previous Facility Type} located {Brief General Previous Facility Location} were {What was Done with Existing Facilities - ie removed or retired}. See their work plan provided with the contract letting documents for additional detail. {Additional information, details, or requirements regarding utility if applicable} If questions arise, {Utility Contact} of the utility may be contacted at {Phone Number} or {Email Address}. The work plan was approved on {Date Work Plan was Approved}.

Utility not in Conflict - The facilities of {Utility Company} exist within the project limits but are not expected to be affected by the proposed construction. The utility has {Facility Type} located {Brief General Facility Location}. See their work plan provided with the contract letting documents for additional detail. {Additional information, details, or requirements regarding utility if applicable} If questions arise, {Utility Contact} of the utility may be contacted at {Phone Number} or at {Email Address}. The work plan was approved on {Date Work Plan was Approved}.

[NOTE TO THE UTILITY COORDINATOR—REVIEW CONTRACT LETTING DOCUMENTS RELATED TO UTILITY COORDINATION. INCLUDE ANY NOTEWORTHY UTILITY COORDINATION CONDITIONS DEEMED NEEDED BY THE UTILITY COORDINATOR AND ANY ADDITIONAL REAL ESTATE INFORMATION AS DIRECTED BY THE PROJECT TEAM. EXAMPLES ARE INFORMATION THAT SHALL BE DISCLOSED BECAUSE THEY CAN IMPACT THE CONTRACTOR’S ABILITY TO PERFORM WORK UNDER THIS CONTRACT. EXAMPLES BELOW. INCLUDE COMPLETED VERSIONS OF THESE OR OTHERS AS APPLICABLE AND REQUIRED. REMOVE THE UNAPPLICABLE SECTION (b) AND THIS NOTE TO THE UTILITY COORDINATOR PRIOR TO SUBMITTING.]

(b) Other Noteworthy Conditions

There are no other noteworthy conditions which may affect the progress and completion of the contract.

(b) Other Noteworthy Conditions

REVISION TO RECURRING SPECIAL PROVISION

107-R-169 STATEMENTS ABOUT EXISTING CONDITIONS OF UTILITIES, ADDITIONAL RIGHT-OF-WAY, AND ENCROACHMENTS

The following conditions exists which may affect the prosecution and progress and completion of the contract.

{Add Noteworthy Conditions as applicable. Common Examples:}

{Clearing of right of way for utilities outside of the construction limits, and within public right of way, shall be performed by the Contractor and shall be included in the cost of other items.}

{The Utility Coordinator for the project is {FILL IN} who can be reached at {FILL IN}.}

{If INDOT-owned lines exist within the project area, the Utility Coordinator may, if desired, complete an in conflict work in contract or not in conflict template paragraph similar to above and insert here.} If done so, also recommend a statement that INDOT facilities are not marked by 811 and the Contractor shall use the Buried Facilities Application in INDOT's ITAP to have them marked.

[NOTE TO THE UTILITY COORDINATOR – CREATE SIMILAR PARAGRAPHS (a) AND (b) TO THE ABOVE FOR ALL OTHER DES NUMBERS ON THE CONTRACT. REMOVE THIS NOTE TO THE UTILITY COORDINATOR PRIOR TO SUBMITTING. THEN A SINGLE (c) AND (d) ARE INCLUDED AT THE BOTTOM.]

Des {Number} – {Roadway Name and Location}

(c) Right-of-Way

Included with the contract letting documents is a letter, outlining the Department's certification of right-of-way.

If the Department reports a Certification with Exceptions, for those parcels of real property referenced on the certification letter, the Contractor shall not enter the property unless and until 1) the Contractor has received an updated certification letter certifying that the parcel is clear for construction, and 2) the Department has authorized the Contractor to enter the property to begin construction. The Contractor shall not commence construction without receipt of the updated certification letter, even if the Contractor was otherwise authorized to proceed. The project construction engineer will provide an updated certification letter to the Contractor as updates are available. The Contractor shall also ask the construction engineer for updates and provide concerns as needed.

For a Certification, no additional R/W needed, letter or Certification Clear letter, all right-of-way requirements for the contract have been cleared, and except as described below, construction can begin on the right-of-way.

1. Encroachments

The Contractor shall review plans to determine if any encroachments or other items have been marked "do not disturb" or "DND". If there is a "do not disturb" or "DND",

REVISION TO RECURRING SPECIAL PROVISION

107-R-169 STATEMENTS ABOUT EXISTING CONDITIONS OF UTILITIES, ADDITIONAL RIGHT-OF-WAY, AND ENCROACHMENTS

efforts shall be taken to ensure those encroachment items are not negatively impacted by construction.

(ed) Preconstruction Conference Notification

The Contractor shall provide notification during the preconstruction conference about known corrections to or omissions of the information presented in 107.26(a) through 107.26(d) above. Otherwise, notification shall be provided as required in accordance with 105.06. ~~Notifications regarding such corrections or omissions shall not alleviate the Contractor's inquiry or interpretation obligations as contained in 105 IAC 11-3-7.~~

COMMENTS AND ACTION

107-R-169 STATEMENTS ABOUT EXISTING CONDITIONS OF UTILITIES, ADDITIONAL RIGHT-OF-WAY, AND ENCROACHMENTS

DISCUSSION:

<p>Motion: Second: Ayes: Nays: FHWA Approval:</p>	<p>Action:</p> <p><input type="checkbox"/> Passed as Submitted <input type="checkbox"/> Passed as Revised <input type="checkbox"/> Withdrawn</p>
<p>2024 Standard Specifications Sections: See Proposal Recurring Special Provisions or Plan Details: 107-R-169 STATEMENTS ABOUT EXISTING CONDITIONS OF UTILITIES, ADDITIONAL RIGHT- OF-WAY, AND ENCROACHMENTS Standard Drawing affected: NONE Design Manual Chapter: Chapters 85 (Right-of-Way Plans Preparation) and 104 (Utility Coordination) but no revisions necessary. GIFE Section: Sections 2 (General Instructions) and 14 (Utility Relocation Inspection Procedures) but no revisions necessary.</p>	<p><input type="checkbox"/> 2026 Standard Specifications <input type="checkbox"/> Revise Pay Items List <input type="checkbox"/> Notification to Designers if change is <u>not</u> addressed by RSP <input type="checkbox"/> Create RSP (No. __) Effective: <input type="checkbox"/> Revise RSP (No. __) Effective: <input type="checkbox"/> Standard Drawing Effective: <input type="checkbox"/> Create RPD (No. __) Effective: <input type="checkbox"/> GIFE Update <input type="checkbox"/> Frequency Manual Update <input type="checkbox"/> SiteManager Update</p>

PROPOSAL TO STANDARDS COMMITTEE

PROBLEM(S) ENCOUNTERED: Designers are often making errors or omitting the mandatory supplemental description of “for permanent seeding” on item 621-06545 Fertilizer. There are no other supplemental descriptions used for this item. Contract Administration is working to reduce these types of errors.

PROPOSED SOLUTION: Change the pay item description in the master Pay Item list to include “for permanent seeding.” Eliminate the required supplemental description. Change the basis for payment section of the specification for the next publication of the INDOT Standard Specifications book. Update the instruction in Chapter 17 of the Indiana Design Manual.

APPLICABLE STANDARD SPECIFICATIONS: Section 621

APPLICABLE STANDARD DRAWING: none

APPLICABLE DESIGN MANUAL CHAPTER: Ch 17

APPLICABLE SECTION OF GIFE: none

APPLICABLE RECURRING SPECIAL PROVISION OR PLAN DETAILS: N/A

PAY ITEMS AFFECTED: 621-06545 Fertilizer

APPLICABLE SUB-COMMITTEE ENDORSEMENT: ad hoc group of Peter White, Kurt Pelz, Melissa Russell, and John Wooden.

IF APPROVED AS RECURRING SPECIAL PROVISION OR PLAN DETAILS, PROPOSED BASIS FOR USE: N/A

IMPACT ANALYSIS (attach report):

Submitted By: John Wooden, PE

Title: Estimating Administrator

Division: Contract Administration

E-mail: jwooden@indot.in.gov

Date: June 13, 2024

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? No

Will approval of this item affect the Qualified Products List (QPL)? 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? Yes

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? YNo

AASHTO or other design code? No

Is this item editorial? Yes

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

REVISION TO 2024 STANDARD SPECIFICATIONS

SECTION 621 – SEEDING AND SODDING
621.14 Basis of Payment

(Note: Proposed changes shown highlighted gray)

The Standard Specifications are revised as follows:

SECTION 621, BEGIN LINE 395, INSERT AS FOLLOWS:

Fertilizer, *For Permanent Seeding* TON

COMMENTS AND ACTION

621.14 Basis of Payment

DISCUSSION:

<p>Motion: Second: Ayes: Nays: FHWA Approval:</p>	<p>Action:</p> <p><input type="checkbox"/> Passed as Submitted <input type="checkbox"/> Passed as Revised <input type="checkbox"/> Withdrawn</p>
<p>2024 Standard Specifications Sections: 621.14 pg. 571.</p> <p>Recurring Special Provisions or Plan Details: NONE</p> <p>Standard Drawing affected: NONE</p> <p>Design Manual Chapter: Chapter 17</p> <p>GIFE Section: NONE</p>	<p><input type="checkbox"/> 2026 Standard Specifications <input type="checkbox"/> Revise Pay Items List <input type="checkbox"/> Notification to Designers if change is <u>not</u> addressed by RSP</p> <p><input type="checkbox"/> Create RSP (No. __) Effective:</p> <p><input type="checkbox"/> Revise RSP (No. __) Effective:</p> <p><input type="checkbox"/> Standard Drawing Effective:</p> <p><input type="checkbox"/> Create RPD (No. __) Effective:</p> <p><input type="checkbox"/> GIFE Update <input type="checkbox"/> Frequency Manual Update <input type="checkbox"/> SiteManager Update</p>

PROPOSAL TO STANDARDS COMMITTEE

PROBLEM(S) ENCOUNTERED: INDOT Legal has determined joint ventures, and the association of venture member liability are not adequately defined in the current Highway Contract documents.

PROPOSED SOLUTION: Define what INDOT considers a joint venture and clearly describe each venture member's liabilities and obligations to the State.

APPLICABLE STANDARD SPECIFICATIONS: Section 101

APPLICABLE STANDARD DRAWING: none

APPLICABLE DESIGN MANUAL CHAPTER: none

APPLICABLE SECTION OF GIFE: none

APPLICABLE RECURRING SPECIAL PROVISION OR PLAN DETAILS: TBD

PAY ITEMS AFFECTED: none

APPLICABLE SUB-COMMITTEE ENDORSEMENT: ad hoc group of Kate Shelby, Steve Duncan, and John Wooden.

IF APPROVED AS RECURRING SPECIAL PROVISION OR PLAN DETAILS, PROPOSED BASIS FOR USE:
Required for all contracts.

IMPACT ANALYSIS (attach report):

Submitted By: John Wooden, PE

Title: Estimating Administrator

Division: Contract Administration

E-mail: jwooden@indot.in.gov

Date: June 13, 2024

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? No

Will approval of this item affect the Qualified Products List (QPL)? 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? Yes

AASHTO or other design code? No

Is this item editorial? N/A

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

REVISION TO 2024 STANDARD SPECIFICATIONS

SECTION 101 – DEFINITIONS AND TERMS

101.80 Joint Ventures

The Standard Specifications are revised as follows:

SECTION 101, AFTER LINE 573, INSERT AS FOLLOWS:

101.80 Joint Venture

A bid of two or three contractors will be considered a joint venture. Not more than three contractors will be allowed as parties to a joint venture. All contractors applying for joint venture approval shall be prequalified separately.

A contractor that is a member of a joint venture may not submit a proposal bid, in its individual capacity or as a participant in another joint venture, for the same contract on which the joint venture bids.

Each contractor on an awarded Joint Venture bid shall comply with 105 IAC 11-3-5 and, regardless of any other agreement between the contractors, is jointly and severally liable to the State for all obligations owing to the State under the awarded contract.

COMMENTS AND ACTION

101.80 Joint Ventures

DISCUSSION:

<p>Motion: Second: Ayes: Nays: FHWA Approval:</p>	<p>Action:</p> <p><input type="checkbox"/> Passed as Submitted <input type="checkbox"/> Passed as Revised <input type="checkbox"/> Withdrawn</p>
<p>2024 Standard Specifications Sections: 101 begin pg. 1 -13</p> <p>Recurring Special Provisions or Plan Details: (Note: Proposed new subsection number 101.80 is currently used in RSP 109-C-279 IDIQ WORK ORDERS)</p> <p>Standard Drawing affected: NONE</p> <p>Design Manual Chapter: NONE</p> <p>GIFE Section: NONE</p>	<p><input type="checkbox"/> 2026 Standard Specifications <input type="checkbox"/> Revise Pay Items List <input type="checkbox"/> Notification to Designers if change is <u>not</u> addressed by RSP</p> <p><input type="checkbox"/> Create RSP (No. __) Effective:</p> <p><input type="checkbox"/> Revise RSP (No. __) Effective:</p> <p><input type="checkbox"/> Standard Drawing Effective:</p> <p><input type="checkbox"/> Create RPD (No. __) Effective:</p> <p><input type="checkbox"/> GIFE Update <input type="checkbox"/> Frequency Manual Update <input type="checkbox"/> SiteManager Update</p>

PROPOSAL TO STANDARDS COMMITTEE

PROBLEM(S) ENCOUNTERED: With the upcoming switch to AASHTOWare Project (AWP), AWP incorporates the ledge information as the material name for aggregate delivered to INDOT contracts. Some aggregate sources are not listing the ledges on the tickets even though ITM 211 requires ledge information to be provided on tickets.

PROPOSED SOLUTION: Add "edges to the list of information required to be shown on weigh tickets in 109.01(b).

APPLICABLE STANDARD SPECIFICATIONS: 109.01

APPLICABLE STANDARD DRAWINGS: None

APPLICABLE DESIGN MANUAL SECTION: None

APPLICABLE SECTION OF GIFE: None

APPLICABLE RECURRING SPECIAL PROVISIONS: None

PAY ITEMS AFFECTED: None

APPLICABLE SUB-COMMITTEE ENDORSEMENT: Ad hoc: District Testing Engineers

IF APPROVED AS RECURRING SPECIAL PROVISION OR PLAN DETAILS, PROPOSED BASIS FOR USE: N/A; if approved, inclusion in the 2026 Spec Book is sufficient

IMPACT ANALYSIS (attach report):

Submitted By: Jim Reilman

Title: State Materials Engineer

Organization: INDOT

Phone Number: (317) 522-9692

Date: 6/18/24

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/A

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

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? Yes

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

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

REVISION TO 2024 STANDARD SPECIFICATIONS

SECTION 109 – MEASUREMENT AND PAYMENT
109.01 Measurement of Quantities

(Note: Proposed changes shown highlighted gray)

The Standard Specifications are revised as follows:

SECTION 109, BEGIN LINE 73, INSERT AS FOLLOWS:

(b) Scales and Measurement by Weight (Mass)

All materials for which measurements are obtained by weight (mass) shall be weighed on approved scales which, except as hereinafter provided for out-of-state scales, shall be tested and sealed by the Indiana State Board of Health, Division of Weight and Measures. This inspection shall have been made within a period of not more than one year prior to the date of use for weighing material. A scale which has been tested and approved within this one year period and which has been repaired or dismantled or moved to another location, shall again be tested and approved before it is eligible for weighing. All interested parties, such as the Department, the Contractor, or the owner of the scales, may request an inspection of the scales in question. The latest inspection shall take precedence over all previous inspections.

A motor-truck scale shall have a suitable undercarriage of such construction that shall safely carry and weigh an amount equal to 80% of the rated capacity of the scale on either end of the scale platform. When so loaded, the stresses in the lever system shall not exceed the stresses allowable under AREA specifications. The load carried per 1 in. of knife-edged bearing shall not exceed 5,000 lb.

The scale platform shall be of such length and width as to conveniently accommodate all trucks containing materials which need to be weighed. The entire truck load shall rest on the scale platform and shall be weighed as one draft.

If material is weighed on truck scales, weigh tickets showing the net weight of each load of material delivered shall be supplied for use in computing quantities. The tickets shall contain the ticket serial number, date, contract number, source of supply, material designation such as *ledge and* size or type, DMF or JMF number for HMA, truck number, time weighed, gross weight direct reading if scale is of the direct reading type, tare, net weight, and moisture content if applicable. Space shall be provided on each ticket for the signature of a representative of the Engineer.

COMMENTS AND ACTION

109.01 Measurement of Quantities

DISCUSSION:

<p>Motion: Second: Ayes: Nays: FHWA Approval:</p>	<p>Action:</p> <p><input type="checkbox"/> Passed as Submitted <input type="checkbox"/> Passed as Revised <input type="checkbox"/> Withdrawn</p>
<p>2024 Standard Specifications Sections: 109.01(b) pg. 103.</p> <p>Recurring Special Provisions or Plan Details: NONE</p> <p>Standard Drawing affected: NONE</p> <p>Design Manual Chapter: NONE</p> <p>GIFE Section: NONE</p>	<p><input type="checkbox"/> 2026 Standard Specifications <input type="checkbox"/> Revise Pay Items List <input type="checkbox"/> Notification to Designers if change is <u>not</u> addressed by RSP</p> <p><input type="checkbox"/> Create RSP (No. __) Effective:</p> <p><input type="checkbox"/> Revise RSP (No. __) Effective:</p> <p><input type="checkbox"/> Standard Drawing Effective:</p> <p><input type="checkbox"/> Create RPD (No. __) Effective:</p>
	<p><input type="checkbox"/> GIFE Update <input type="checkbox"/> Frequency Manual Update <input type="checkbox"/> SiteManager Update</p>

PROPOSAL TO STANDARDS COMMITTEE

PROBLEMS(S) ENCOUNTERED:

- The obsolete subgrade treatment types (ID, IV, and IVA) were specified.
- It was determined that further details were needed for aggregate subgrade compaction and construction.
- Priming is not used in the INDOT project.
- Aggregate moisture content up to OMC is not necessary.

PROPOSED SOLUTION:

- The obsolete subgrade treatment types (ID, IV, and IVA) were deleted.
- Further details in aggregate compaction and construction were provided, including proofrolling requirements of aggregate subgrade, use of geosynthetics, spreading, and leveling devices.
- The priming section (301.08) was deleted.
- The aggregate moisture requirement for compaction was revised from "between 4% and OMC" to "between 4% and 7%".

APPLICABLE STANDARD SPECIFICATIONS: 301

APPLICABLE STANDARD DRAWINGS: NA

APPLICABLE DESIGN MANUAL SECTION: NA

APPLICABLE SECTION OF GIFE: NA

APPLICABLE RECURRING SPECIAL PROVISIONS: NA

PAY ITEMS AFFECTED: No

APPLICABLE SUB-COMMITTEE ENDORSEMENT: ICA, Subcontractors, Area Engineers, Material Engineers and Geotechnical Engineers.

IMPACT ANALYSIS (attach report): NA

Submitted by: Jim Reilman for Nayyar Siddiki

Title: State Materials Engineer

Organization: INDOT

Phone Number: 317-522 9692

Date: 6/22/2024

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? No

Will approval of this item affect the Approved Materials List? No

Will this proposal improve:

Construction costs: NA
Construction time: Yes
Customer satisfaction? NA
Congestion/travel time? NA
Ride quality? NA

Will this proposal reduce operational costs or maintenance effort? NA

Will this item improve safety:

For motorists? NA
For construction workers? NA

Will this proposal reduce operational costs or maintenance effort? NA

Will this item improve safety:

For motorists? NA
For construction workers? NA

Will this proposal improve quality for:

Construction procedures/processes? Yes
Asset preservation? NA
Design process? NA

Will this change provide the contractor more flexibility? NA

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

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

Is this proposal needed for compliance with:

Federal or State regulations: No
AASHTO or other design code: No

Is this item editorial? No

Provide any further information as to why this proposal should be placed on the Standards Committee meeting Agenda: _____

REVISION TO 2024 STANDARD SPECIFICATIONS

SECTION 301 – AGGREGATE BASE

(Note: Proposed changes shown highlighted gray.
Previously approved changes by the Standards Committee – orange and are shown in Recurring Special
Provision: [207-R-781](#) SUBGRADE TREATMENT)

The Standard Specifications are revised as follows:

SECTION 301, BEGIN LINE 1, DELETE AND INSERT AS FOLLOWS:

SECTION 301 – AGGREGATE BASE

301.01 Description

This work shall consist of placing coarse aggregate on a prepared grade in accordance with 105.03.

MATERIALS

301.02 Materials

Materials shall be in accordance with the following:

- Coarse Aggregate, Class D or Higher 904.03
- Geosynthetic Materials 918

~~ACBF shall not be used for subgrade treatment Type ID, Type IV, and Type IVA.~~

CONSTRUCTION REQUIREMENTS

301.03 Preparation of Subgrade

Subgrade shall be prepared *and proofrolled* in accordance with 207.04. *When shown on the plans, geosynthetics shall be placed over the prepared subgrade in accordance with 214.03 or as directed.* Proofrolling will not be required in trench sections and other areas where proofrolling equipment cannot be used.

301.04 Temperature Limitations

Aggregate shall not be placed when the air temperature is less than 35 °F. ~~Aggregate shall not be placed on a frozen subgrade.~~ Frozen aggregate shall not be placed. *Aggregate shall not be placed on frozen subgrade, subbase, or aggregate base.*

301.05 Spreading

~~The moisture content of the aggregate shall be between 4% and the optimum moisture content when the aggregate is delivered to the project. The aggregate shall be placed with a moisture content between 4 and 7%. The Contractor shall add water or dry the stockpile as necessary to meet this moisture requirement. The aggregate will be tested for density or stiffness testing in accordance with 203.24. Unless otherwise directed by the Engineer, water shall not be added to the aggregate on the grade. All test results shall be maintained during the duration of the contract and made available to the Engineer upon request.~~

REVISION TO 2024 STANDARD SPECIFICATIONS

SECTION 301 – AGGREGATE BASE

~~Aggregate shall be spread in uniform lifts with a spreading and leveling device approved by the Engineer. The spreading and leveling device shall be capable of placing aggregate to the depth, width, and slope specified. The compacted depth of each lift shall be a minimum of 3 in. and a maximum of 6 in.~~

~~Aggregate shall be handled and transported to minimize segregation and the loss of moisture. In areas inaccessible to mechanical equipment, each lift shall be 3 in. and an approved hand spreading method may be used.~~

Aggregate shall be transported, handled, and compacted to minimize segregation and the loss of moisture. Aggregate shall be spread in uniform lifts with a spreading and leveling device approved by the Engineer.

The spreading and leveling device shall be capable of placing aggregate to the depth, width, and slope specified. The material shall be placed with self-propelled spreading equipment, such as a spreader box or paver, capable of placing the material true to line and grade. The material shall be spread such that it minimizes segregation and requires minimal blading or manipulation. The compacted depth of each lift shall be a maximum of 6 in. The Contractor may use hand-placing methods when the total area of the material is 2,000 sq yds or less, or in small areas where machine spreading is impractical.

The Contractor may use hand-placing methods, dozers, or graders in small areas, areas of subgrade construction, or where self-propelled spreading equipment is impractical. Small areas include lane widths less than 12 ft or lengths less than 1,000 ft. In small areas, or areas inaccessible to self-propelled spreading equipment, each lift shall be a maximum of 4 in.

The material shall be placed in two or more approximately equal lifts when the specified compacted thickness exceeds the maximum allowed.

301.06 Compacting

Each lift shall be compacted immediately after spreading. Dense graded aggregate shall be compacted to achieve the allowable average deflection as determined with LWD testing in accordance with 203.24(b).

The allowable average deflection *and the maximum deflection* for aggregate over the chemically modified soils, ~~and~~ untreated soils, *and cement stabilized subgrade soils* shall be in accordance with the Tables shown in 203.24(b) *and 219.12, respectively.*

As an alternate *to LWD*, aggregates shall be compacted to a minimum of 100% of the maximum dry densities in accordance with AASHTO T 99. In situ density will be determined in accordance with 203.24(b). Aggregate shall meet the compaction requirements at the time subsequent courses are placed. *Stiffness and density methods will not be used in the same project.*

REVISION TO 2024 STANDARD SPECIFICATIONS

SECTION 301 – AGGREGATE BASE

~~Coarse graded aggregates shall be compacted in accordance with 203.25.~~

In areas inaccessible to compaction equipment, such as private drives and mailbox approaches, the compaction requirements may be accepted by visual inspection.

All displacement or rutting of the aggregate shall be repaired prior to placing subsequent material.

301.07 Checking and Correcting Base

The top of each aggregate course shall be checked transversely to the cross section and all deviations in excess of 1/2 in. shall be corrected. If additional aggregate is required, the course shall be remixed and re-compacted.

301.08 Priming

~~A prime coat, when required, shall be in accordance with 405.~~

301.0908 Method of Measurement

Compacted aggregate base will be measured by the cubic yard based on the theoretical volume to the neat line as shown on the plans. ~~Geotextiles~~ *Geosynthetics* will be measured in accordance with ~~616.12~~ *214.05*.

301.1009 Basis of Payment

The accepted quantities of compacted aggregate base will be paid for at the contract unit price per cubic yard, complete in place. ~~Geotextiles~~ *Geosynthetics* will be paid for in accordance with ~~616.13~~ *214.06*.

Payment will be made under:

Pay Item	Pay Unit Symbol
Compacted Aggregate, No. 2.....	CYS
Compacted Aggregate, No. 5.....	CYS
Compacted Aggregate, No. 8.....	CYS
Compacted Aggregate, No. 53.....	CYS

The cost of placing, *spreading*, compacting, water, aggregate placed outside neat lines as shown on the plans, and necessary incidentals shall be included in the cost of the pay item.

Payment will not be made for material placed outside of a 1:1 slope from the planned typical section.

Replacement of pavement damaged by the Contractor's operations shall be at no additional payment.

COMMENTS AND ACTION

SECTION 301 – AGGREGATE BASE

DISCUSSION:

<p>Motion: Second: Ayes: Nays: FHWA Approval:</p>	<p>Action:</p> <p><input type="checkbox"/> Passed as Submitted <input type="checkbox"/> Passed as Revised <input type="checkbox"/> Withdrawn</p>
<p>2024 Standard Specifications Sections: 301 pg. 263 through pg. 265.</p> <p>Recurring Special Provisions or Plan Details: 207-R-781 SUBGRADE TREATMENT 214-R-784 GEOSYNTHETICS (to change references in 2026 SS: 301.09 and 301.10)</p> <p>Standard Drawing affected: NONE</p> <p>Design Manual Chapter: NONE</p> <p>GIFE Section: NONE</p>	<p><input type="checkbox"/> 2026 Standard Specifications <input type="checkbox"/> Revise Pay Items List <input type="checkbox"/> Notification to Designers if change is <u>not</u> addressed by RSP</p> <p><input type="checkbox"/> Create RSP (No. __) Effective:</p> <p><input type="checkbox"/> Revise RSP (No. __) Effective:</p> <p><input type="checkbox"/> Standard Drawing Effective:</p> <p><input type="checkbox"/> Create RPD (No. __) Effective:</p>
	<p><input type="checkbox"/> GIFE Update <input type="checkbox"/> Frequency Manual Update <input type="checkbox"/> SiteManager Update</p>

PROPOSAL TO STANDARDS COMMITTEE

PROBLEMS(S) ENCOUNTERED:

- Recycled Concrete Aggregate No. 53 may be used in aggregate pavement and shoulder.
- It was determined that further details were needed for aggregate pavement and shoulder compaction and construction.

PROPOSED SOLUTION:

- Statement allowing Recycled Concrete Aggregate No. 53 was added.
- Further details in aggregate compaction and construction were provided, including proofrolling, LWD deflection requirements, and compaction equipment in the inaccessible areas.

APPLICABLE STANDARD SPECIFICATIONS: 303

APPLICABLE STANDARD DRAWINGS: NA

APPLICABLE DESIGN MANUAL SECTION: NA

APPLICABLE SECTION OF GIFE: NA

APPLICABLE RECURRING SPECIAL PROVISIONS: NA

PAY ITEMS AFFECTED: No

APPLICABLE SUB-COMMITTEE ENDORSEMENT: ICA, Subcontractors, Area Engineers, Material Engineers and Geotechnical Engineers.

IMPACT ANALYSIS (attach report): NA

Submitted by: Jim Reilman for Nayyar Siddiki

Title: State Materials Engineer

Organization: INDOT

Phone Number: 317-522 9692

Date: 6/22/2024

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? No

Will approval of this item affect the Approved Materials List? No

Will this proposal improve:

Construction costs: NA
Construction time: Yes
Customer satisfaction? NA
Congestion/travel time? NA
Ride quality? NA

Will this proposal reduce operational costs or maintenance effort? NA

Will this item improve safety:

For motorists? NA
For construction workers? NA

Will this proposal reduce operational costs or maintenance effort? NA

Will this item improve safety:

For motorists? NA
For construction workers? NA

Will this proposal improve quality for:

Construction procedures/processes? Yes
Asset preservation? NA
Design process? NA

Will this change provide the contractor more flexibility? NA

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

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

Is this proposal needed for compliance with:

Federal or State regulations: No
AASHTO or other design code: No

Is this item editorial? No

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

REVISION TO 2024 STANDARD SPECIFICATIONS

SECTION 303 – AGGREGATE PAVEMENTS OR SHOULDERS

(Note: Proposed changes shown highlighted gray)

The Standard Specifications are revised as follows:

SECTION 303, BEGIN LINE 1, DELETE AND INSERT AS FOLLOWS:

SECTION 303 – AGGREGATE PAVEMENTS OR SHOULDERS

303.01 Description

This work shall consist of placing a dense-graded compacted aggregate on prepared subgrade in accordance with 105.03.

MATERIALS

303.02 Materials

Materials shall be in accordance with the following:

Coarse Aggregate, Class D or Higher, Size No. 53* 904
Coarse Aggregate, Class D or Higher, Size No. 73** 904

* Recycled Concrete Aggregate No. 53 may be used when specified.

** Surface courses only, when specified.

CONSTRUCTION REQUIREMENTS

303.03 Preparation of Subgrade

Subgrade shall be prepared in accordance with 207.04. Proofrolling shall be performed in accordance 203.26. Proofrolling will not be required in trench sections and other areas where proofrolling equipment cannot be used.

303.04 Temperature Limitations

Aggregate shall not be placed when the air temperature is less than 35°F. Aggregate shall not be placed on a frozen subgrade. Frozen aggregate shall not be placed.

303.05 Spreading

Aggregate shall be spread in uniform lifts with a spreading and leveling device approved by the Engineer. The spreading and leveling device shall be capable of placing aggregate to the depth, width, and slope specified. The compacted depth of each lift shall be a minimum of 3 in. and a maximum of 6 in., except where utilized as a shoulder. The compacted depth of a lift for a shoulder shall be a minimum of 3 in. and a maximum of 9 in.

Aggregate shall be handled and transported to minimize segregation and the loss of moisture. In areas inaccessible to mechanical equipment, approved hand spreading methods may be used.

The moisture content of the aggregate shall be between 4% and the optimum moisture content when the aggregate is delivered to the project. Water shall not be added

REVISION TO 2024 STANDARD SPECIFICATIONS
SECTION 303 – AGGREGATE PAVEMENTS OR SHOULDERS

to the aggregate on the grade.

303.06 Compacting

Compaction shall be in accordance with 301.06.

The allowable average deflection and the maximum deflection for the aggregate over the chemically modified soils and untreated soils, shall be in accordance with the Tables shown in 203.24(b). All displacement or rutting of the compacted aggregate shall be repaired prior to placing subsequent material.

In the areas inaccessible to compaction equipment, such as private drives, compaction requirements may be accepted by visual inspection.

303.07 Checking and Correcting Base and Surface

The top of each aggregate course shall be checked transversely and all deviations in excess of 1/2 in. shall be corrected. If additional aggregate is required, the course shall be remixed and re-compacted.

303.08 Dust Palliative

A dust palliative, if required, shall be in accordance with 407.

303.09 Method of Measurement

Compacted aggregate will be measured by the ton in accordance with 109.01(b) for the type specified.

303.10 Basis of Payment

The accepted quantities of compacted aggregate will be paid for at the contract unit price per ton, for the type specified, complete in place.

Payment will be made under:

Pay Item	Pay Unit Symbol
Compacted Aggregate, No. 53.....	TON
Compacted Aggregate, No. 73.....	TON

The cost of placing, compacting, water, and necessary incidentals shall be included in the costs of the compacted aggregate.

Payment will not be made for material placed outside of a 1:1 slope from the planned typical section.

Replacement or repair of pavement or shoulders damaged by the Contractor's operations shall be at no additional payment.

COMMENTS AND ACTION

SECTION 303 – AGGREGATE PAVEMENTS OR SHOULDERS

DISCUSSION:

<p>Motion: Second: Ayes: Nays: FHWA Approval:</p>	<p>Action: Passed as Submitted Passed as Revised Withdrawn</p>
<p>2024 Standard Specifications Sections: 303 pg. 267 through pg. 269.</p> <p>Recurring Special Provisions or Plan Details: NONE</p> <p>Standard Drawing affected: NONE</p> <p>Design Manual Chapter: NONE</p> <p>GIFE Section: NONE</p>	<p><input type="checkbox"/> 2026 Standard Specifications <input type="checkbox"/> Revise Pay Items List <input type="checkbox"/> Notification to Designers if change is <u>not</u> addressed by RSP</p> <p><input type="checkbox"/> Create RSP (No.____) Effective:</p> <p><input type="checkbox"/> Revise RSP (No.____) Effective:</p> <p><input type="checkbox"/> Standard Drawing Effective:</p> <p><input type="checkbox"/> Create RPD (No. ____) Effective:</p> <p><input type="checkbox"/> GIFE Update <input type="checkbox"/> Frequency Manual Update <input type="checkbox"/> SiteManager Update</p>

PROPOSAL TO STANDARDS COMMITTEE

PROBLEM(S) ENCOUNTERED: Repetitive or superfluous language in the Detectable Warning Surface materials section

PROPOSED SOLUTION: Delete the superfluous language shown.

APPLICABLE STANDARD SPECIFICATIONS: 905.05

APPLICABLE STANDARD DRAWINGS: None

APPLICABLE DESIGN MANUAL SECTION: None

APPLICABLE SECTION OF GIFE: None

APPLICABLE RECURRING SPECIAL PROVISIONS: None

PAY ITEMS AFFECTED: None

APPLICABLE SUB-COMMITTEE ENDORSEMENT: Ad hoc: David Jacobs, Jim Reilman

IF APPROVED AS RECURRING SPECIAL PROVISION OR PLAN DETAILS, PROPOSED BASIS FOR USE: N/A;
include in the 2026 spec book

IMPACT ANALYSIS (attach report):

Submitted By: Jim Reilman

Title: State Materials Engineer

Organization: INDOT

Phone Number: (317) 522-9692

Date: 6/18/24

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? No

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

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

REVISION TO 2024 STANDARD SPECIFICATIONS

SECTION 905 – MASONRY UNITS
905.05 Detectable Warning Surfaces

(Note: Proposed changes shown highlighted gray)

The Standard Specifications are revised as follows:

SECTION 905, BEGIN LINE 35, DELETE AS FOLLOWS:

905.05 Detectable Warning Surfaces

The detectable warning surface in concrete curb ramps shall be constructed using materials from the QPL of Detectable Warning Surfaces, which is maintained by the Department’s Division of Materials and Tests. A surface manufacturer wishing to add a product to the QPL shall comply with Procedure L of ITM 806.

- (a) Brick detectable warning surfaces shall consist of clay, shale, or similarly naturally occurring earthy substance, subjected to heat treatment at elevated temperatures ~~to form bricks or pavers~~. The dimensions of the brick shall be 8 in. in length, 4 in. in width including any spacing lugs. The thickness of the brick shall be 2 in., excluding dome height and edge chamfers. The truncated domes on the surface shall be formed integral with the main body of the detectable warning surface and be present on the brick prior to heat treatment. The size and physical requirements of the bricks shall be in accordance with ASTM C902 for weather and traffic environment classifications Class SX, Type II, respectively. The truncated domes may be ground off to meet the cap thickness requirement for compressive strength testing.
- (b) Brick detectable warning surfaces shall be predominantly red-brown in color and shall be uniform throughout the brick. The color will be determined from the average of five color readings for detectable warning surfaces when measured at the top surface between the raised truncated domes and determined in accordance with ASTM E1349, CIE Illuminant D65, 10° Standard Observer, using instrument geometry of 45°/0°, and the CIE L* a* b* color system. The tested bricks shall be within the limits as follows:

	Minimum	Maximum
L*	35.0	50.0
a*	6.0	36.0
b*	0.0	30.0

The value of a* shall not be less than 90% of the value of b*. The color difference of any installed brick after one year of exposure or of an individual detectable warning surface from the average color for any product or model from a manufacturer shall not be greater than 5.0 ΔE^* units. ~~The color shall be uniform throughout the detectable warning surfaces.~~

REVISION TO 2024 STANDARD SPECIFICATIONS

SECTION 905 – MASONRY UNITS

905.05 Detectable Warning Surfaces

- (c) Cast iron detectable warning surfaces shall be manufactured from gray iron in accordance with AASHTO M 105, Class No. 30A as a minimum. The truncated domes shall be as shown on the plans. The tops of the domes and the space between domes shall have a non-slip textured surface. The minimum thickness of the casting shall be 0.20 in. The minimum thickness shall not be measured within the area of integral reinforcing ribs or bracing, domes, or the textured surface.
- (d) The height range of the truncated domes shall be between 0.18 in. and 0.26 in. The design values shall be within the ranges identified in the Standard Drawings. No more than two truncated domes per surface may be out of tolerance for dimensions.
- (e) Detectable warning surfaces that are not classified as brick in accordance with 905.05(a) or cast iron in accordance with 905.05(c) will be considered. The detectable warning surfaces shall meet the color requirements of 905.05(b) and the truncated dome requirements of 905.05(d).

COMMENTS AND ACTION

905.05 Detectable Warning Surfaces

DISCUSSION:

<p>Motion: Second: Ayes: Nays: FHWA Approval:</p>	<p>Action: <input type="checkbox"/> Passed as Submitted <input type="checkbox"/> Passed as Revised <input type="checkbox"/> Withdrawn</p>
<p>2024 Standard Specifications Sections: 905.05 pg. 1016 – 1018</p>	<p><input type="checkbox"/> 2026 Standard Specifications <input type="checkbox"/> Revise Pay Items List <input type="checkbox"/> Notification to Designers if change is <u>not</u> addressed by RSP</p>
<p>Recurring Special Provisions or Plan Details: NONE</p>	<p><input type="checkbox"/> Create RSP (No. __) Effective:</p>
<p>Standard Drawing affected: NONE</p>	<p><input type="checkbox"/> Revise RSP (No. __) Effective:</p>
<p>Design Manual Chapter: NONE</p>	<p><input type="checkbox"/> Standard Drawing Effective:</p>
<p>GIFE Section: NONE</p>	<p><input type="checkbox"/> Create RPD (No. __) Effective:</p>
	<p><input type="checkbox"/> GIFE Update <input type="checkbox"/> Frequency Manual Update <input type="checkbox"/> SiteManager Update</p>