



INDIANA DEPARTMENT OF TRANSPORTATION

100 North Senate Avenue
Room N758 CM
Indianapolis, Indiana 46204

www.in.gov/indot

Mike Braun, Governor
Lyndsay Quist, Commissioner

AGENDA

May 21, 2026, Standards Committee Meeting

MEMORANDUM

May 6, 2026

TO: Standards Committee

FROM: Scott Trammell, Secretary

RE: Agenda for May 21, 2026, Standards Committee Meeting

A Standards Committee meeting is scheduled for 09:00 a.m. on Thursday, May 21, 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

Approval of the Minutes from the [April 16, 2026](#) meeting

B. CONCEPTUAL PROPOSAL

(No items on this agenda)

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

OLD BUSINESS

[Item No. 4 \(03/20/2026\)](#) [Mr. Reilman](#) [pg. 3](#)

Recurring Special Provision:
204-R-727

GEOTECHNICAL INSTRUMENTATION

NEW BUSINESS

[Item No. 1](#) [Mr. Novak](#) [pg. 12](#)

2026 Standard Specifications:
601.07
601.08

Guardrail End Treatments
Impact Attenuators

[Item No. 2](#) [Mr. White](#) [pg. 16](#)

2026 Standard Specifications:
711.72
711.73

Method of Measurement
Basis of Payment

[Item No. 3](#) [Mr. Pelz](#) [pg. 23](#)

Recurring Special Provision:
304-x-xxx

*SMOOTHNESS REQUIREMENTS FOR PATCHING
(proposed new)*

[Item No. 4](#) [Mr. Pelz](#) [pg. 27](#)

Recurring Special Provision:
805-T-xxx

*DOCUMENTATION, REMOVAL, AND REINSTALLATION
OF EXISTING PAVEMENT MARKINGS, TRAFFIC SIGNAL
LOOPS, AND WIRELESS MAGNETOMETER DETECTORS
(proposed new)*

cc: Committee Members
FHWA
ICI

STANDARD SPECIFICATIONS, SPECIAL PROVISIONS AND STANDARD DRAWINGS

REVISION TO SPECIAL PROVISIONS

PROPOSAL TO STANDARDS COMMITTEE

PROBLEM(S) ENCOUNTERED: Settlement monuments and a way to monitor cracks due to settlement or movement need to be added to the geotechnical instrumentation section.

PROPOSED SOLUTION: Add language describing settlement monuments and crack gauges to 204.

APPLICABLE STANDARD SPECIFICATIONS: 204 and RSP 204-R-727

APPLICABLE STANDARD DRAWINGS: None

APPLICABLE DESIGN MANUAL SECTION: None

APPLICABLE SECTION OF GIFE: None

APPLICABLE RECURRING SPECIAL PROVISIONS: revise RSP 204-R-727

PAY ITEMS AFFECTED: create new pay items for settlement monument and crack gauges in the 204 section

APPLICABLE SUB-COMMITTEE ENDORSEMENT: Ad hoc: Nayyar Siddiki and Samuel Clawson

IF APPROVED AS RECURRING SPECIAL PROVISION OR PLAN DETAILS, PROPOSED BASIS FOR USE: Use the current BFU for RSP 204-R-727

IMPACT ANALYSIS (attach report):

Submitted By: Jim Reilman for Nayyar Siddiki

Title: State Materials Engineer

Organization: INDOT

Phone Number: (317) 522-9692

Date: 4/28/26

STANDARD SPECIFICATIONS, SPECIAL PROVISIONS AND STANDARD DRAWINGS

REVISION TO SPECIAL PROVISIONS

IMPACT ANALYSIS REPORT CHECKLIST

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

Does this item appear in any other specification sections? 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? Yes

Asset preservation? Yes

Design process? N/A

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

Will this proposal provide clarification for the Contractor and field personnel? N/A

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 SPECIAL PROVISIONS

204-R-727 GEOTECHNICAL INSTRUMENTATION

(Note: Proposed changes shown highlighted gray)

204-R-727 GEOTECHNICAL INSTRUMENTATION

(Revised 11-19-25)

The Standard Specifications are revised as follows:

SECTION 204, BEGIN LINE 1, DELETE AND INSERT AS FOLLOWS:

SECTION 204 – GEOTECHNICAL INSTRUMENTATION

204.01 Description

This work shall consist of providing, installing, and maintaining geotechnical instrumentation including settlement plates, settlement stakes, lateral stakes, *vibrating wire settlement systems*, ~~and~~ standpipe piezometers, *settlement monuments, and crack gauges* as directed and in accordance with 105.03.

MATERIALS

204.02 Materials

Materials shall be in accordance with the following:

B Borrow	904.06
<i>Bentonite Chips and Powder</i>	913.06
Coarse Aggregate, Class D or Higher, Size No. 53.....	904.03
Ottawa Sand*	AASHTO T 252
<i>Portland Cement, Type I or II</i>	901.01(b)
Structure Backfill, Size No. 30	904.05
<i>Water</i>	913.01

* Ottawa Sand shall have a minimum permeability of 25 ft/day.

~~Bentonite chips shall consist of commercially processed angular fragments of pure bentonite, without additives. Bentonite-cement grout shall consist of a mixture with the ratio of 25 lb of bentonite powder to 94 lb of portland cement, Type I or II in accordance with 901.01(b) and 30 gal. of water.~~

Crack gauges shall be in accordance with the type or configuration specified in the Geotechnical Report.

SECTION 204, BEGIN LINE 32, INSERT AS FOLLOWS:

(a) Installation Requirements

Each settlement plate shall be placed on a horizontal plane consisting of a compacted leveling layer of B borrow, whose surface is not less than 1 ft below the elevation of the adjacent area. The first section of pipe shall then be installed by welding

REVISION TO SPECIAL PROVISIONS

204-R-727 GEOTECHNICAL INSTRUMENTATION

to the settlement plate. *A benchmark shall be located outside the influence of the embankment to serve as a reference monument.* The bottom elevation of the settlement plate will be recorded. The area is backfilled with B borrow and thoroughly compacted. The couplings shall be tack welded and the top elevation of the first pipe section will be recorded before starting the first lift of grading operations.

SECTION 204, BEGIN LINE 76, DELETE AS FOLLOWS:

Lateral stakes will be used to monitor horizontal movement of the ground or new fill. If lateral movement is noticed during the construction of the fill, the work will be suspended and the Department's Geotechnical Engineering Division will be contacted. ~~Measurements will be made to the nearest 1/4 in.~~

SECTION 204, AFTER LINE 95, DELETE AND INSERT AS FOLLOWS:

204.04 Vibrating Wire Settlement Systems

A vibrating wire settlement system from the Department's QPL for Vibrating Wire Settlement Systems shall be provided. A vibrating wire settlement system will be considered for inclusion on the QPL by following ITM 806, Procedure U. The settlement system shall consist of sensor, tubing, and reservoir system. The system shall also have the capability of being attached to a datalogger and be remotely monitored via a cell phone modem.

Structure backfill shall be No. 30 sand in accordance with 904.05.

The Contractor shall submit ~~a Type D certification in accordance with 916 and the~~ manufacturer's calibration report for the settlement system to the Engineer and to the Department's Geotechnical Engineering Division two weeks prior to beginning construction. The Contractor shall supply the hardware, software, power supply, and monitoring system.

A qualified geotechnical consultant, from the Department's list of Qualified Geotechnical Consultants, shall install these devices as specified by the manufacturer.

(a) Installation Requirements

Prior to installation, the settlement system materials shall be assembled and inspected for defects in accordance with manufacturer's instructions and recommendations. The Contractor shall verify that all cable and tube lengths are of sufficient length to facilitate proper installation and layout. Cables and tubes shall be labeled with a unique instrument number using a permanent marking system at the terminal end, at the sensor end, and at 50 ft intervals in between.

The settlement cells shall be mounted onto rigid plates. The Contractor shall also install at least two survey pins on the plates and provide easy access to the markers for a survey crew to measure elevations using standard tools.

The Contractor shall provide details for protecting the signal cables and tubing at the connection from the reservoir to the settlement plate.

REVISION TO SPECIAL PROVISIONS

204-R-727 GEOTECHNICAL INSTRUMENTATION

Sharp bends where the signal cable and tubing exit the embankment shall be avoided. All signal cable and tubing shall be run in a 1 ft deep by 1 ft, minimum, wide trench using structure backfill for 3 in. under the cable and 3 in. over the cable, or other approved method, to protect the signal cable and tubing from damage. The Contractor shall run cabling and tubing leaving enough slack to provide necessary strain relief for the anticipated movements in accordance with the manufacturer's recommendations.

Only hand tools shall be used to place and compact fill material for a height of 1 1/2 ft above signal cable, tubing, and the settlement plate. The Contractor shall avoid driving heavy equipment that causes rutting deeper than 2 in. over or near the signal cable, tubing, and settlement plate until the height of the fill over the signal cable, tubing, and settlement plate reaches at least 5 ft.

The signal cable and tubing shall terminate at a datalogger inside a lockable readout enclosure. The enclosure shall be mounted on a post driven into stable ground as close as possible to the right of way line. The Contractor shall keep the fluid reservoir vertical at all times. The sensor and tubing shall be at a lower elevation than the instrument reservoir at all times. The enclosure and instrument tubing from the ground into the reservoir enclosure shall be protected from thermal influence.

After the completion of the installation, a detailed installation log shall be completed. The as built location in a horizontal position shall be determined for both the sensor and the reservoir to an accuracy of ± 1 ft and the elevation for both the sensor and the reservoir determined to an accuracy of ± 0.01 ft.

After the completion of the installation, a post-installation acceptance test shall be performed by ~~obtaining~~ the qualified geotechnical consultant. ~~Three independent readings shall be obtained from the sensor in accordance with the manufacturer's recommendations. The acceptance test shall be performed prior to backfilling of the trench. This shall be accomplished using a vibrating wire readout compatible with the installed settlement system. Elevations obtained from all three readings shall be within a range of 0.02 ft from each other. The Engineer will review the data from these readings to determine whether the instrument is acceptable.~~ The qualified geotechnical consultant shall submit the readings to the Engineer and to the Department's Geotechnical Engineering Division who will review the data from these readings to determine whether the instrument is acceptable.

The Contractor shall be responsible for any damage to the vibratory wire settlement systems.

(b) Instrument Reading and Documentation

Monitoring will be performed by the Department's Geotechnical Engineering Division. Measurements at each instrument will include the raw readings from the settlement cell, the temperature at the settlement cell, and the temperature at the reservoir.

REVISION TO SPECIAL PROVISIONS

204-R-727 GEOTECHNICAL INSTRUMENTATION

Instruments will be read in accordance with 204.03(b), or as recommended by the Engineer.

The Geotechnical Engineering Division will keep a weekly record which lists for each settlement system, sensor elevation, reservoir elevation, and list of pay items. A copy of each weekly report shall be provided to the Engineer. This weekly record will be made available to the Contractor.

204.045 Standpipe Piezometers

SECTION 204, AFTER LINE 197, DELETE AND INSERT AS FOLLOWS:

204.06 Settlement Monument

Physical targets used as settlement monuments shall be concrete, wood, steel, or other material that will maintain its shape throughout the duration of monitoring and is suitable to the Engineer. The physical targets shall be 3 in. by 3 in. by 24 in. long, 12 in. of which shall be set firmly in the ground and placed to measure vertical settlement. These monuments are either used alone or in coordination with settlement vibratory gauges or settlement plates.

(a) Installation Requirements

Settlement monuments shall be installed on embankments upon completion of construction of the embankment to determine vertical deformations. The Contractor shall ensure that the settlement monument is protected from damage or impacts from construction traffic.

(b) Instrument Reading and Documentation

Conventional survey techniques will be used to determine any changes in elevation. A benchmark will be located outside the influence of the embankment to serve as a reference monument. Measurement will be taken at the same interval of other settlement plates or vibratory gauges.

The Engineer will conduct and record readings every seven days until the settlement rate per week is 1/4 in. or less for four consecutive weeks in addition to settlement plates and vibratory gauges. The Engineer will report the data to the Department's Division of Geotechnical Engineering.

204.07 Crack Gauges

Crack gauges shall be provided as shown on the plans and will be used to measure cracks or joints. The crack gauge provided shall be in accordance with the type or configuration specified. Gauges shall be installed by the qualified geotechnical consultant on smooth and clean surfaces over a crack or joint to visually monitor relative vertical and horizontal deformation without requiring the use of survey equipment. Gauges shall be protected from weather. The Engineer will conduct and record readings for the time period as specified but no longer than the date of substantial completion.

REVISION TO SPECIAL PROVISIONS

204-R-727 GEOTECHNICAL INSTRUMENTATION

204.0568 Method of Measurement

Settlement plates, settlement stakes, lateral stakes, *vibrating wire settlement systems*, *settlement monuments*, *crack gauges*, standpipe piezometers, and water monitoring boreholes will be measured by the number of units installed *and accepted*.

204.0679 Basis of Payment

Settlement plates, settlement stakes, lateral stakes, *vibrating wire settlement systems*, *settlement monuments*, *crack gauges*, standpipe piezometers, and water monitoring boreholes will be paid for at the contract unit price per each.

Payment will be made under:

Pay Item	Pay Unit Symbol
<i>Crack Gauge</i>	<i>EACH</i>
<i>Settlement Monument</i>	<i>EACH</i>
Settlement Plate.....	EACH
Stake, Lateral	EACH
Stake, Settlement.....	EACH
Standpipe Piezometer.....	EACH
<i>Vibrating Wire Settlement System</i>	<i>EACH</i>
Water Monitoring Borehole.....	EACH

The cost of furnishing, installing, and maintaining settlement plates, extension pipes, cover pipes, B borrow, structure backfill, coarse aggregate and all necessary incidentals shall be included in the cost of settlement plates.

The cost of furnishing all tools, labor, and materials necessary to complete the installation, maintenance, and baseline reading of vibratory wire settlement systems as specified by the manufacturer shall be included in the cost of the vibratory wire settlement system pay item.

The cost of furnishing, installing, maintaining, and removing crack gauges shall be included in the cost of the crack gauge pay item.

The cost of backfilling water monitoring boreholes will be included in the cost of water monitoring boreholes.

The cost of handholes, protective covers, bentonite chips, bentonite-cement grout, Ottawa sand, tips, casing, drilling, tubing or PVC pipe, backfilling and measurements will be included in the cost of standpipe piezometers.

No additional compensation will be made for any costs incurred related to the repair of settlement plates, pipes, settlement stakes, lateral stakes, *vibratory wire settlement systems*, or standpipe piezometers as the result of damage by the Contractor.

REVISION TO SPECIAL PROVISIONS

204-R-727 GEOTECHNICAL INSTRUMENTATION

No payment will be made for unacceptable settlement plates, pipes, settlement stakes, lateral stakes, vibratory wire settlement systems, crack gauges, or standpipe piezometers. No payment will be made for delays and expenses incurred by the Contractor, through changes necessitated by improper or unacceptable installation, material or equipment.

COMMENTS AND ACTION

204-R-727 GEOTECHNICAL INSTRUMENTATION

DISCUSSION:

Motion: Second: Ayes: Nays: FHWA Approval:	<u>Action:</u> ☐ Passed as Submitted ☐ Passed as Revised ☐ Withdrawn
2026 Standard Specifications Sections: 204 pp. 190 - 194. Recurring Special Provisions or Plan Details: 204-R-727 GEOTECHNICAL INSTRUMENTATION Standard Drawing affected: NONE Design Manual Chapter: NONE GIFE Section: NONE	☐ 2028 Standard Specifications ☐ Revise Pay Items List ☐ Notification to Designers if change is <u>not</u> addressed by RSP ☐ Create RSP (No. __) Effective: ☐ Revise RSP (No. __) Effective: ☐ Standard Drawing Effective: ☐ Create RPD (No. __) Effective: ☐ GIFE Update ☐ Frequency Manual Update ☐ AWP Update

PROPOSAL TO STANDARDS COMMITTEE

PROBLEM(S) ENCOUNTERED: The Department previously required installers of guardrail end treatments and impact attenuators to submit individual installer certifications directly to INDOT for record retention and public posting. This process created unnecessary steps, duplication of effort, and difficulty maintaining complete and up-to-date certification records. Installers often submitted multiple device certifications at various times, and the Department was responsible for retaining these records and making them available online for field personnel. This led to inconsistencies in documentation and an administrative burden without providing additional value to contract compliance.

PROPOSED SOLUTION: Revise specification 601 and create a new ITM 804 certification form so that installer certifications are no longer submitted directly to the Department. Instead, require the Contractor to submit a single complete certification package on a contract-by-contract basis. This certification would include the following:

- Identify all guardrail end treatment and impact attenuator devices installed on the contract.
- Include copies of all current installer certifications for the personnel who performed or supervised those installations, as reflected in the revised form.

The revision also clarifies that gravel barrel arrays do not require a certified installer, as they only need to be placed in accordance with the standard drawings and the manufacturer's recommendations.

APPLICABLE STANDARD SPECIFICATIONS: SS 601.07 & 601.08; ITM 804

APPLICABLE STANDARD DRAWING: N/A

APPLICABLE DESIGN MANUAL CHAPTER: N/A

APPLICABLE SECTION OF GIFE: 21.2

APPLICABLE RECURRING SPECIAL PROVISION OR PLAN DETAILS: N/A

PAY ITEMS AFFECTED: N/A

APPLICABLE SUB-COMMITTEE ENDORSEMENT: Ad hoc: Derrick Hauser, Jim Reilman, Charles Smith

IF APPROVED AS RECURRING SPECIAL PROVISION OR PLAN DETAILS, PROPOSED BASIS FOR USE:
Required for all contracts with 601 pay items.

IMPACT ANALYSIS (attach report): Yes

Submitted By: Joe Novak
Title: State Construction Engineer
Division: Construction Management
E-mail: JNovak@indot.in.gov
Date: (317) 501-7805

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? 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: N/A

REVISION TO 2026 STANDARD SPECIFICATIONS

SECTION 601 – GUARDRAIL
601.07 Guardrail End Treatments
601.08 Impact Attenuators

(Note: Proposed changes shown highlighted gray)

The Standard Specifications are revised as follows:

SECTION 601, BEGIN LINE 141, DELETE AND INSERT AS FOLLOWS:

Assembly and installation or resetting shall be supervised or performed at all times by an installer trained and certified by the unit's manufacturer, and shall be in accordance with the manufacturer's recommendations. ~~The installer shall be included on the Department's list of Qualified Guardrail End Treatment and Impact Attenuator Installers prior to the start of work.~~

The Contractor shall furnish to the Engineer documentation certifying that all guardrail end treatment work will be supervised or performed by a manufacturer-trained and certified installer. These certifications must comply with the format and information requirements outlined in ITM 804 and must be submitted prior to the start of work.

SECTION 601, BEGIN LINE 173, DELETE AND INSERT AS FOLLOWS:

Assembly, installation, or resetting of the impact attenuators shall be supervised or performed by an installer trained and certified by the unit's manufacturer and shall be in accordance with the manufacturer's recommendations. ~~The installer shall be included on the Department's list of Qualified Guardrail End Treatment and Impact Attenuator Installers prior to the start of work.~~

The Contractor shall furnish to the Engineer documentation certifying that all impact attenuators work, except for the installation of gravel barrel arrays, will be supervised or performed by a manufacturer-trained and certified installer. These certifications must comply with the format and information requirements outlined in ITM 804 and must be submitted prior to the start of work.

Gravel barrel arrays shall be installed in accordance with the manufacturer's recommendations. Installer certification or specialized training from the manufacturer is not required.

COMMENTS AND ACTION

601.07 Guardrail End Treatments

601.08 Impact Attenuators

DISCUSSION:

Motion: Second: Ayes: Nays: FHWA Approval:	<u>Action:</u> ☐ Passed as Submitted ☐ Passed as Revised ☐ Withdrawn
2026 Standard Specifications Sections: 601.07 and 601.08, ppg. 496. Recurring Special Provisions or Plan Details: NONE Standard Drawing affected: NONE Design Manual Chapter: NONE GIFE Section: 21.2	☐ 2028 Standard Specifications ☐ Revise Pay Items List ☐ Notification to Designers if change is <u>not</u> addressed by RSP ☐ Create RSP (No. __) Effective: ☐ Revise RSP (No. __) Effective: ☐ Standard Drawing Effective: ☐ Create RPD (No. __) Effective: ☐ GIFE Update ☐ Frequency Manual Update ☐ AWP Update

PROPOSAL TO STANDARDS COMMITTEE

PROBLEM(S) ENCOUNTERED: Due to the use of a lump sum pay item, it is difficult for designers to accurately estimate the cost of structural steel. The design community has asked for guidance on how structural steel should be estimated. An estimated weight of structural steel is currently shown on the plans; however, this weight has not been consistently calculated due to the lump sum quantity.

PROPOSED SOLUTION: The unit cost pay item will be used to pay for structural steel. A Bridge Design Aid will be developed to provide guidance for designers so that the structural steel pay item quantity shown on the plans and in the CIB will be as accurate as possible. The lump sum pay item will remain available for use with an USP.

APPLICABLE STANDARD SPECIFICATIONS: 711

APPLICABLE STANDARD DRAWING: N/A

APPLICABLE DESIGN MANUAL CHAPTER: IDM Chapter 17

APPLICABLE SECTION OF GIFE: 5.22 Structural Steel Erection

APPLICABLE RECURRING SPECIAL PROVISION OR PLAN DETAILS: N/A

PAY ITEMS AFFECTED: 711-51035 Structural Steel (LBS)
711-51038 Structural Steel (LS) – Needs to be changed to Unique Pay Item

APPLICABLE SUB-COMMITTEE ENDORSEMENT: Ad-Hoc Committee consisting of Jim Reilman; Tom Harris; Derrick Hauser; Justin Cowan (Wabash Steel); Peter White; Gauri Chandore; Amanda Ranck; Jim Lesh; Donald Shaw

IF APPROVED AS RECURRING SPECIAL PROVISION OR PLAN DETAILS, PROPOSED BASIS FOR USE: All contracts that include Section 711 Pay Items

IMPACT ANALYSIS (attach report): yes

Submitted By: Jim Lesh for Peter White

Title: Bridge Design Team Leader

Division: Bridge, Indiana Department of Transportation

E-mail: jiles@indot.in.gov

Date: 4/23/2026

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? Yes

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:

REVISION TO 2026 STANDARD SPECIFICATIONS

SECTION 711 – STEEL STRUCTURES

711.72 Method of Measurement

711.73 Basis of Payment

(Note: Proposed changes shown highlighted gray)

The Standard Specifications are revised as follows:

SECTION 711, BEGIN LINE 1247, DELETE AND INSERT AS FOLLOWS:

711.72 Method of Measurement

~~Structural~~ *The quantities of steel shapes, fabricated steel, steel castings, iron castings, bolts, pins, rollers, rockers, anchor bolts, and threaded rods, and all other miscellaneous structural steel as part of the complete permanent steel structure as shown on the plans will be those shown in the Schedule of Pay Items will be measured by the pound. If the Schedule of Pay Items includes a lump sum item for structural steel, all materials listed above shall be included in the pay item. No measurement will be made.*

Stud shear connectors placed on new *or existing* structural steel ~~will not be measured. Stud shear connectors placed on existing structural steel~~ will be measured by the number installed.

~~Bronze plates will be measured by the pound. Pay weight will be based on a theoretical density of 536 lb/cu ft. Volume will be computed based on finished dimensions. No deductions will be made for drilled holes.~~

Field cutting of structural steel will be measured by the square inch as determined by the multiplication of the length times the depth of the cut. Removal of rivets and removal of bolts will be measured by the number of each removed. Drilled holes for bolts on repair work will be measured by the number of drilled holes.

Jacking and supporting structural members will not be measured for payment.

Peening will be measured by the linear inch of peened weld. The length of weld peened will be measured once per weld regardless of the number of passes necessary to complete the work as specified.

Repair welds will be measured by the linear inch of repaired weld.

711.73 Basis of Payment

~~The accepted quantities of structural steel shapes, fabricated steel, steel castings, iron castings, bolts, pins, rollers, rockers, anchor bolts, and threaded rods will be paid for at a contract lump sum price if the Schedule of Pay Items includes a lump sum pay item for structural steel. Changes from the estimated quantities shall be in accordance with 711.73(a).~~ *Steel shapes, fabricated steel, steel castings, iron castings, bolts, pins, rollers, rockers, anchor bolts, threaded rods, and all other miscellaneous structural steel as part of the permanent steel structure as shown on the plans will be paid for at the contract unit price per pound for structural steel.*

REVISION TO 2026 STANDARD SPECIFICATIONS

SECTION 711 – STEEL STRUCTURES

711.72 Method of Measurement

711.73 Basis of Payment

~~If the Schedule of Pay Items does not include a lump sum pay item for structural steel, the accepted quantities of structural steel will be paid for at the contract unit price per pound for structural steel. Such pay item will include all work listed above, complete in place. Payment will be in accordance with 711.73(b).~~

Stud shear connectors placed on *new or* existing structural steel will be paid for at the contract unit price per each, complete in place and accepted.

~~The accepted quantities of bronze plates will be paid for at the contract unit price per pound.~~

The accepted quantities of field structural steel cutting will be paid for at the contract unit price per square inch for structural steel, field cut.

The accepted quantities of rivet removal, bolt removal, and drilled holes will be paid for at the contract unit price per each for rivet, remove; per each for bolt, remove; and per each for drilled hole.

Jacking and supporting structural members, if specified as a pay item, will be paid for at the contract lump sum price for jacking and supporting the types of structural members shown in the Schedule of Pay Items.

The accepted quantities of peened weld will be paid for at the contract unit price per inch. The accepted quantities of repaired weld will be paid for at the contract unit price per inch.

~~Bolts, including anchor bolts and threaded rods, will be paid for as the full weight computed on the basis of 490 lb/cu ft, including nuts and washers, for the actual number of bolts in the structure.~~

~~If welding is shown on the plans, the weights of the structural steel parts will be computed as described above.~~

~~The weight of castings will be computed on the basis of 490 lb/cu ft for cast steel, and 450 lb/cu ft for cast iron, based on the net volume of the finished castings as shown on the plans, including fillets at angles. No deductions will be made for holes required to be drilled in castings or for rounding the corners of castings. Payment will be made for the weight of structural steel as shown on the Schedule of Pay Items. If there is a discrepancy between the weight listed and the actual weight supplied by the Contractor, no adjustment in the payment for the work will be made on account of such discrepancy. If a change in the plans is made which will affect the weight of material to be furnished, payment for the difference in structural steel quantities required as a result of such change in plans will be made in accordance with 104.02~~

711.73 Basis of Payment

REVISION TO 2026 STANDARD SPECIFICATIONS

SECTION 711 – STEEL STRUCTURES

711.72 Method of Measurement

711.73 Basis of Payment

Repair Weld	INCH
Rivet, Remove.....	EACH
Structural Steel.....	LS
	LBS
Structural Steel, Field Cut	SIN
Stud Shear Connectors	EACH

The cost of paint and coating removal, coating, non-destructive testing, equipment, labor, materials, access, permits, and necessary incidentals shall be included in the cost of peening weld, UIT.

The cost of drilling holes for anchor bolts, steel bearing assemblies *and shims* for integral end bents, fabrication, painting *and coating*, erecting falsework, welding material, Charpy ~~V-Notch~~ *V-notch* toughness tests, and necessary incidentals shall be included in the cost of the pay items in this section. Elastomeric bearings and bridge bearing pads, will be paid for in accordance with 726.05.

~~The cost of stud shear connectors placed on new structural steel shall be included in the cost of structural steel.~~ No increase in pay weight will be considered if diaphragm connections other than those shown on the plans are approved and used.

Shims between beams and top shoes of the thicknesses necessary to adjust the steel to planned elevations shall be furnished using either the plan datum or another datum as established. No adjustment will be made to the pay quantities ~~as long as the total weight of shims required does not exceed that planned.~~ No *single* shim shall be less than 1/8 in. in thickness.

No allowance in weight will be made for work which is done at the option of the Contractor. No payment will be made for material used at the convenience of the Contractor in excess of the quantities shown on the plans.

COMMENTS AND ACTION

711.72 Method of Measurement

711.73 Basis of Payment

DISCUSSION:

Motion: Second: Ayes: Nays: FHWA Approval:	<u>Action:</u> ☐ Passed as Submitted ☐ Passed as Revised ☐ Withdrawn
2026 Standard Specifications Sections: 711 pp. 722 - 725. Recurring Special Provisions or Plan Details: NONE Standard Drawing affected: NONE Design Manual Chapter: IDM Chapter 17 GIFE Section: 5.22 Structural Steel Erection	☐ 2028 Standard Specifications ☐ Revise Pay Items List ☐ Notification to Designers if change is <u>not</u> addressed by RSP ☐ Create RSP (No. __) Effective: ☐ Revise RSP (No. __) Effective: ☐ Standard Drawing Effective: ☐ Create RPD (No. __) Effective: ☐ GIFE Update ☐ Frequency Manual Update ☐ AWP Update

PROPOSAL TO THE STANDARDS COMMITTEE

PROBLEM(S) ENCOUNTERED: Unique Special Provisions are intended for a single use on a specific contract for a specific situation on the contract that is not already covered by the Standard Specification or a Special Provision. However, some USPs have been utilized quite frequently on numerous contracts, and have become somewhat “standard”.

PROPOSED SOLUTION: The proposed solution for this USP is to convert it to a Recurring Special Provision in order to expedite the process of implementing this Special Provision into future contracts, while eliminating the need for further review.

APPLICABLE STANDARD SPECIFICATIONS: 304.04.

APPLICABLE STANDARD DRAWINGS:

APPLICABLE DESIGN MANUAL SECTION:

APPLICABLE SECTION OF GIFE:

APPLICABLE RECURRING SPECIAL PROVISIONS:

PAY ITEMS AFFECTED: None

APPLICABLE SUB-COMMITTEE ENDORSEMENT: Scott Trammell, Construction Specifications Engineer, and the USP Review Process, et al.

IMPACT ANALYSIS (attach report): Yes

Submitted By: Kurt Pelz,

Title: Construction Management Technical Support Engineer

Organization: Construction Management

Phone Number: 317-234-7726

Date: April 27, 2026

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? Yes, several.

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

Will this proposal improve:

Construction costs? Yes

Construction time? Yes

Customer satisfaction? Yes

Congestion/travel time? Yes

Ride quality? N/A

Will this proposal reduce operational costs or maintenance effort? Yes

Will this item improve safety:

For motorists? Yes

For construction workers? Yes

Will this proposal improve quality for:

Construction procedures/processes? Yes

Asset preservation? Yes

Design process? Maybe

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? Yes

Is this proposal needed for compliance with:

Federal or State regulations? Yes

AASHTO or other design code? N/A

Is this item editorial? No

Provide any further information as to why this proposal should be placed on the Standards Committee meeting Agenda: For ease of use for implementation and to improve the USP Review Process flow capacity.

REVISION TO SPECIAL PROVISION

304-x-xxx SMOOTHNESS REQUIREMENTS FOR PATCHING (PROPOSED NEW)

SMOOTHNESS REQUIREMENTS FOR PATCHING

PCCP and HMA patch smoothness will be accepted by means of a 16 ft long straightedge. The Contractor shall furnish and operate the 16 ft straightedge as described below. The 16 ft long straightedge shall be operated longitudinally 25 ft in advance of the patch and 25 ft after the longitudinal limits of the patch in the wheel path areas. The transverse location of the patch shall be checked by the 16 ft long straightedge 3 ft from the edge line and 3 ft from the centerline. The pavement variations, within the length limits and at the transverse locations of the 16 ft long straightedge as stated above, shall be corrected to 1/4 in. or less. The cost of operating the straightedge requirements shall be included in the cost of the appropriate PCCP and HMA patching-related pay items.

No payment will be made for additional work for correcting pavement smoothness including grinding, or removal and replacement of the patch.

COMMENTS AND ACTION

304-x-xxx SMOOTHNESS REQUIREMENTS FOR PATCHING

DISCUSSION:

Motion: Second: Ayes: Nays: FHWA Approval:	<u>Action:</u> ☐ Passed as Submitted ☐ Passed as Revised ☐ Withdrawn
2026 Standard Specifications Sections: Recurring Special Provisions or Plan Details: NONE Standard Drawing affected: NONE Design Manual Chapter: NONE GIFE Section: NONE	☐ 2028 Standard Specifications ☐ Revise Pay Items List ☐ Notification to Designers if change is <u>not</u> addressed by RSP ☐ Create RSP (No. __) Effective: ☐ Revise RSP (No. __) Effective: ☐ Standard Drawing Effective: ☐ Create RPD (No. __) Effective: ☐ GIFE Update ☐ Frequency Manual Update ☐ AWP Update

PROPOSAL TO STANDARDS COMMITTEE

PROBLEM(S) ENCOUNTERED: Unique Special Provisions are intended for a single use on a specific contract for a specific situation on the contract that is not already covered by the Standard Specification or a Special Provision. However, some USPs have been utilized quite frequently on numerous contracts, and have become somewhat “standard”.

PROPOSED SOLUTION: The proposed solution for this USP is to convert it to a Recurring Special Provision in order to expedite the process of implementing this Special Provision into future contracts, while eliminating the need for further review.

APPLICABLE STANDARD SPECIFICATIONS: 805 and 808.

APPLICABLE STANDARD DRAWINGS:

APPLICABLE DESIGN MANUAL SECTION:

APPLICABLE SECTION OF GIFE:

APPLICABLE RECURRING SPECIAL PROVISIONS:

PAY ITEMS AFFECTED: None

APPLICABLE SUB-COMMITTEE ENDORSEMENT: Scott Trammell, Construction Specifications Engineer, and the USP Review Process, et al.

IMPACT ANALYSIS (attach report): Yes

Submitted By: Kurt Pelz

Title: Construction Management Technical Support Engineer

Organization: Construction Management

Phone Number: 317-234-7726

Date: April 27, 2026

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? Yes, several.

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

Will this proposal improve:

Construction costs? Yes

Construction time? Yes

Customer satisfaction? Yes

Congestion/travel time? Yes

Ride quality? N/A

Will this proposal reduce operational costs or maintenance effort? Yes

Will this item improve safety:

For motorists? Yes

For construction workers? Yes

Will this proposal improve quality for:

Construction procedures/processes? Yes

Asset preservation? Yes

Design process? Maybe

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? Yes

Is this proposal needed for compliance with:

Federal or State regulations? Yes

AASHTO or other design code? N/A

Is this item editorial? No

Provide any further information as to why this proposal should be placed on the Standards Committee meeting Agenda: For ease of use for implementation and to improve the USP Review Process flow capacity.

REVISION TO SPECIAL PROVISIONS

805-T-xxx DOCUMENTATION, REMOVAL, AND REINSTALLATION OF EXISTING PAVEMENT MARKINGS, TRAFFIC SIGNAL LOOPS, AND WIRELESS MAGNETOMETER DETECTORS (PROPOSED NEW)

DOCUMENTATION, REMOVAL, AND REINSTALLATION OF EXISTING PAVEMENT MARKINGS, TRAFFIC SIGNAL LOOPS, AND WIRELESS MAGNETOMETER DETECTORS

The Standard Specifications are revised as follows:

SECTION 805, AFTER LINE 48, INSERT AS FOLLOWS:

Prior to any pavement surface removal, overlay, or other disturbance to existing traffic signal loops or wireless magnetometer detectors, a strip map plan showing the locations of all visible existing traffic signal loops and wireless magnetometer detectors by station and offset shall be prepared as a single .pdf file and submitted electronically to District Traffic and the Engineer, to the satisfaction of District Traffic. District Traffic will review the submittal upon receipt and respond within seven calendar days. The work shall not begin until permission has been granted.

Traffic Operations shall be notified at least seven calendar days prior to the removal of any traffic signal loops or wireless magnetometer detectors so that the signal can be placed on recall mode. District Traffic and the Engineer shall be notified at least seven calendar days prior to the installation of traffic signal loops or wireless magnetometer detectors. District Traffic will return either the previously submitted traffic signal loop or wireless magnetometer plan or a revised traffic signal loop or wireless magnetometer detector plan to the Contractor and the Engineer within seven calendar days.

SECTION 805, AFTER LINE 631, INSERT AS FOLLOWS:

Documenting and coordinating existing traffic signal loops and wireless magnetometer detectors will not be measured for payment.

SECTION 805, AFTER LINE 841, INSERT AS FOLLOWS:

The cost of documenting and coordinating traffic signal loops and wireless magnetometer detectors shall be included in the cost of the traffic signal loop and wireless magnetometer pay items.

SECTION 808, AFTER LINE 29, INSERT AS FOLLOWS:

Prior to any pavement surface removal, overlay, or other disturbance to existing pavement markings, a strip map plan showing all existing pavement markings including the contract station location and length of no passing zones, lane lines, stop bars, gore areas, "onlys", "arrows", crosswalks, and parking stalls shall be prepared as a single .pdf file and submitted electronically to District Traffic and the Engineer, to the satisfaction of District Traffic. District Traffic will review the submittal upon receipt and will respond within seven calendar days. This work shall not begin until permission has been granted.

District Traffic and the Engineer shall be notified at least seven calendar days prior to the installation of permanent pavement markings. District Traffic will return either the previously submitted pavement marking plan or a revised pavement marking plan to the Contractor and the Engineer within seven calendar days.

SECTION 808, AFTER LINE 644, INSERT AS FOLLOWS:

Two-way blue/blue snowplowable raised pavement markers shall be placed in the centerline, or closest lane line, at locations where a fire hydrant exists within the right-of-way.

REVISION TO SPECIAL PROVISIONS

805-T-xxx DOCUMENTATION, REMOVAL, AND REINSTALLATION OF EXISTING PAVEMENT MARKINGS, TRAFFIC SIGNAL LOOPS, AND WIRELESS MAGNETOMETER DETECTORS (PROPOSED NEW)

SECTION 808, AFTER LINE 746, INSERT AS FOLLOWS:

Documenting and coordinating pavement markings will not be measured for payment.

SECTION 808, AFTER LINE 814, INSERT AS FOLLOWS:

The cost of documenting and coordinating pavement markings shall be included in the cost of the pavement marking pay items.

COMMENTS AND ACTION

805-T-xxx DOCUMENTATION, REMOVAL, AND REINSTALLATION OF EXISTING PAVEMENT MARKINGS, TRAFFIC SIGNAL LOOPS, AND WIRELESS MAGNETOMETER DETECTORS (PROPOSED NEW)

DISCUSSION:

Motion: Second: Ayes: Nays: FHWA Approval:	<u>Action:</u> ☐ Passed as Submitted ☐ Passed as Revised ☐ Withdrawn
2026 Standard Specifications Sections: 805 pp. 922 - 941; 808 pp. 961 - 979. Recurring Special Provisions or Plan Details: NONE Standard Drawing affected: NONE Design Manual Chapter: NONE GIFE Section: NONE	☐ 2028 Standard Specifications ☐ Revise Pay Items List ☐ Notification to Designers if change is <u>not</u> addressed by RSP ☐ Create RSP (No. __) Effective: ☐ Revise RSP (No. __) Effective: ☐ Standard Drawing Effective: ☐ Create RPD (No. __) Effective: ☐ GIFE Update ☐ Frequency Manual Update ☐ AWP Update