

13

February 27, 2026 Letting

Notice to Bidders, Specifications and Proposal



**Illinois Department
of Transportation**

**Contract No. 62Y37
Various Counties
Section 2025-1078-FNC
Various Routes
District 1 Construction Funds**

Prepared by

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Checked by

(Printed by authority of the State of Illinois)



NOTICE TO BIDDERS

- 1. TIME AND PLACE OF OPENING BIDS.** Electronic bids are to be submitted to the electronic bidding system (iCX-Integrated Contractors Exchange). All bids must be submitted to the iCX system prior to 12:00 p.m. February 27, 2026 prevailing time at which time the bids will be publicly opened from the iCX SecureVault.
- 2. DESCRIPTION OF WORK.** The proposed improvement is identified and advertised for bids in the Invitation for Bids as:

**Contract No. 62Y37
Various Counties
Section 2025-1078-FNC
Various Routes
District 1 Construction Funds**

This project is to provide prompt installation of new fence and repair of damaged fence located on various State maintained arterial and expressway routes within the counties of Cook, DuPage, Kane, Lake, McHenry and Will.

- 3. INSTRUCTIONS TO BIDDERS.** (a) This Notice, the invitation for bids, proposal and letter of award shall, together with all other documents in accordance with Article 101.09 of the Standard Specifications for Road and Bridge Construction, become part of the contract. Bidders are cautioned to read and examine carefully all documents, to make all required inspections, and to inquire or seek explanation of the same prior to submission of a bid.

(b) State law, and, if the work is to be paid wholly or in part with Federal-aid funds, Federal law requires the bidder to make various certifications as a part of the proposal and contract. By execution and submission of the proposal, the bidder makes the certification contained therein. A false or fraudulent certification shall, in addition to all other remedies provided by law, be a breach of contract and may result in termination of the contract.
- 4. AWARD CRITERIA AND REJECTION OF BIDS.** This contract will be awarded to the lowest responsive and responsible bidder considering conformity with the terms and conditions established by the Department in the rules, Invitation for Bids and contract documents. The issuance of plans and proposal forms for bidding based upon a prequalification rating shall not be the sole determinant of responsibility. The Department reserves the right to determine responsibility at the time of award, to reject any or all proposals, to readvertise the proposed improvement, and to waive technicalities.

By Order of the
Illinois Department of Transportation

Gia Biagi,
Secretary

INDEX
FOR
SUPPLEMENTAL SPECIFICATIONS
AND RECURRING SPECIAL PROVISIONS

Adopted January 1, 2026

This index contains a listing of SUPPLEMENTAL SPECIFICATIONS, frequently used RECURRING SPECIAL PROVISIONS, and LOCAL ROADS AND STREETS RECURRING SPECIAL PROVISIONS.

ERRATA Standard Specifications for Road and Bridge Construction
 (Adopted 1-1-22) (Revised 1-1-26)

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STATE OF ILLINOIS

SPECIAL PROVISIONS

The following Special Provisions supplement the "Standard Specifications for Road and Bridge Construction," adopted January 1 2022, the latest edition of the "Manual on Uniform Traffic Control Devices for Streets and Highways," and the "Manual of Test Procedures for Materials" in effect on the date of invitation for bids, and the Supplemental Specifications and Recurring Special Provisions indicated on the Check Sheet included herein which apply to and govern the construction of Various Routes, Section 2025-1078-FNC, Various Counties, Contract No. 62Y37 and in case of conflict with any part or parts of said Specifications, the said Special Provisions shall take precedence and shall govern.

Various Routes
Section 2025-1078-FNC
Various Counties
Contract No. 62Y37

LOCATION OF IMPROVEMENT

This work is located on various State maintained arterial and expressway routes as determined by the Department within the counties of Cook, DuPage, Kane, Lake, McHenry and Will.

DESCRIPTION OF IMPROVEMENT

The work to be completed under this contract consists of installing fence and gates at new locations and repairing existing damaged pedestrian barrier on a work order basis. This work consists of installing new fence and components and removing damaged chain link, and woven wire fence and components, and replacing all removed fence and components with new material furnished by the Contractor. The intent of this contract is to provide prompt installation of new fence and repair of damaged fence. The locations for the installation of new fence and the locations of damaged fence to be repaired shall be determined by the Engineer.

COMPLETION DATE

The Contractor shall schedule his/her operations in order to complete all work orders issued from execution of contract to **June 30, 2027** during the Term of Contract, including all clean-up work and open all roadways to traffic on or before June 30, 2027.

The provisions of Article 108.09 of the Standard Specifications shall apply for this contract's completion date.

PROSECUTION OF THE WORK

The Engineer will issue a work order to the Contractor prior to the Contractor proceeding with any work on this Contract. Terms of Contract are specified in these Special Provisions. There is no guaranteed minimum or maximum of any Pay Item Work.

INTERPRETATION OF QUANTITIES AND PAYMENT

The quantities in the Summary of Quantities are approximate and include items necessary to repair existing damaged fence and an estimate of items necessary to repair damage that may occur during the Term of Contract.

The quantities in the Summary of Quantities may be increased, decreased or deleted. Adjustments in contract unit prices will not be made due to an increase, decrease or deletion of items.

Payment for the work under this contract shall be made in accordance with the schedule of prices in the contract and as herein after described. Prices shall include all labor, materials and equipment necessary to complete the work satisfactorily. Before any payment for work is authorized, for a given work order, all repairs must be completed satisfactorily and the fence installation must be functional as intended.

The Contractor is hereby informed and shall understand that payment will be made only for actual quantities utilized and accepted as satisfactory.

WORK ORDER

No work, except for priority work, is to be performed by the Contractor without the issuance of a work order authorizing the work. Work orders may be issued seven days after execution date of the contract through the Term of the Contract. A work order will show the class of work, date issued to the Contractor, work order number, location, item description, and quantity of removals or repairs to be made. Only the amount of replacement or repairs shown on the work order is to be done by the Contractor. If, at the time repairs are being made, it is found that additional work is needed, prior approval must be obtained from the Engineer before work is done.

Any additional work done by the Contractor, without prior approval of the Engineer, will not be paid. A sample work order is included in the special provisions.

The Contractor shall contact the Engineer by telephone **no later than 6:30 AM each work day** to coordinate and obtain approval for daily work and submit a list of completed work from the prior work day. The Contractor shall **not revise the sequence of daily planned work without the Engineer's approval**. The Contractor shall contact the Engineer (on a Monday through Friday), **and at least 24 hours in advance of Saturday, Sunday or holiday work**.

All work orders except priority work shall be issued by the Engineer to the Contractor at the Engineer's field office or at a location as approved by the Engineer.

There is no guaranteed minimum or maximum amount work order issuance for this unpredictable repair work.

The Contractor, **assigning only personnel qualified in traffic control and materials**, at least **24 hours in advance**, **must** physically inspect, in detail, all work sites as specified in the work order to determine the correct traffic control and protection obligations along with necessary new material requirements before proceeding with the work. The Contractor **must mark a post at each end** of the repair area along with **placing a ribbon at each end** of the repair area. The Contractor's markings and ribbon shall be a different color than the markings placed by the Department of Transportation. In advance of any repair the Contractor's supervisory personnel shall be knowledgeable of and fully able to direct their work force to **all** work order locations.

After the work is completed, the Contractor shall initial and record the completion date on the work order. The work order again will be signed and dated by the Engineer when the work has been inspected and accepted. The Contractor will be given one copy of the work order for his/her records.

High Priority and Priority work will be initiated by a verbal order from the Engineer. This verbal order will always be confirmed by a written work order.

Regular work will be initiated by a written work order from the Engineer.

Winter work will be initiated by a written work order from the Engineer.

CLASS OF WORK

The location of fence and appurtenances to be repaired as high priority work shall be determined by the Engineer and may be required at any time between the starting date and the completion date.

1. High Priority Work.

High Priority work is defined as work that is required to correct a condition which the Department deems an immediate hazard to the public as designated by the Engineer to be of such severity that life and/or property are potentially endangered, or is a pressing operational need to the Department and first high priority corrective action is required.

The Contractor shall be available to respond to calls for service at **ALL TIMES, including Saturdays, Sundays and Holidays**. The Department requests the work be **completed in 72 hours**.

2. Priority Work.

Priority work is defined as work that is required to correct a condition which is a hazard to the public, designated by the Engineer to be a pressing operational need to the Department and priority corrective action is required.

3. Regular Work.

Regular Work is defined as work that involves those situations where the amount or nature of damage does not pose an immediate hazard to the public. Work of this type shall generally be grouped by locations for efficiency of repair.

4. Winter Work.

Winter work is defined as regular work issued between the dates of December 1 and February 28, inclusive.

Winter work shall require the Contractor to remove snow and ice at the repair site prior to repair. Additional equipment may also be required to repair the damaged location due to frozen ground. This work will not be paid for separately but shall be considered part of the repair work and no additional compensation will be provided.

COMPLETION TIME FOR WORK ORDERS

The Contractor shall schedule his/her operations in order to complete a High Priority Work Order within (72) hours from time of issuance.

The Contractor shall schedule his/her operations in order to complete a Priority Work Order within seven (7) calendar days after the date issued.

The Contractor shall schedule his/her operations in order to complete a Regular Work Order within twenty-one (21) calendar days after the date issued.

The Contractor shall schedule his/her operations in order to complete a Winter Work Order within twenty-eight (28) calendar days after the date issued.

The Contractor shall provide the necessary manpower and equipment to satisfactorily complete all work orders for all class of work orders on time.

PROTECTION FOR DAMAGED LOCATIONS

The Contractor shall be required to install and maintain temporary fencing at high priority locations that have not been repaired within (72) hours after the time of the issuance of the work order, and at priority locations that have not been repaired within (7) calendar days after the date of the issuance of the work order.

The Department will initially have temporary fencing installed at high priority and priority locations. The Contractor will have the option to assume the cost of the rented temporary fencing after (72) hours for high priority locations and after (7) calendar days for priority locations referred to above or have the temporary fencing replaced with others. If the Contractor fails to exercise either of the above options, he/she shall be liable to the Department in the amount of \$5.00 per hour for high priority locations and \$35.00 per day for priority locations, not as a penalty but as liquidated damages.

FAILURE TO COMPLETE OR REPAIR – LIQUIDATED DAMAGES

Time is of the essence in the completion of each work order issued by the Department. Failure to make timely repairs will endanger the public safety, cause public inconvenience, and subject the Department to public criticism. All work shall be completed within the completion time designated for each work order. The Contractor understands and agrees that performance will be expected in varying amounts and at various locations designated in the contract in accordance with the work orders issued by the Resident Engineer.

Should the Contractor fail to complete the work order within the completion time stipulated, the Contractor shall be liable and shall pay to the Department, not as a penalty but as liquidated damages, as specified in the following amounts:

| WORK ORDER CLASS | LIQUIDATED DAMAGE AMOUNTS |
|-------------------------|----------------------------------|
| High Priority | \$15 Per Hour |
| Priority | \$100 Per Calendar Day |
| Regular Work | \$25 Per Calendar Day |
| Winter Work | \$25 Per Calendar Day |

The Department will deduct these liquidated damages from the monies due or to become due to the Contractor from the Department.

The provisions of Article 108.09 of the Standard Specifications shall apply to contract completions date.

CALENDAR DAYS

A calendar day is every day shown on the calendar and starts at 12:00 midnight and ends at the following 12:00 midnight, twenty-four (24) hours later.

A calendar day will be charged for every day shown on the calendar except as follows:

- a) When the temperature or wind chill factor, as officially reported by the United States Weather Bureau at Chicago O'Hare Field, reaches zero degrees Fahrenheit or below during any portion of that day.
- b) When weather conditions, emergency conditions and/or unforeseen highway operational reasons prevent shoulder or lane closures required for the work.
- c) When the Contractor requests and is denied approval from the Illinois Department of Transportation's Expressway Traffic Operations Engineer for lane, ramp and shoulder closures required for the work on Freeways and/or Expressways in District One.
- d) During any legal holiday period as defined in Article 107.09.

The Contractor shall petition the Engineer in writing within 48 hours for each non-chargeable calendar day request. Failure to petition in time shall be just cause to deny the petition. Approval of non-chargeable calendar day requests shall be by the sole determination of the Engineer.

SPRAY PAINT AND FLAGGING RIBBON

The Contractor shall furnish the necessary spray paint, paint sticks and flagging ribbon required for the marking of components for removal. The paint and ribbon shall be iridescent red, iridescent blue, or a color as specified by the Engineer. The furnishing of spray paint, paint sticks and flagging ribbon will not be paid for separately and the cost will be considered included in the items of work in the contract and no additional compensation will be allowed.

CLEARING

The Contractor is hereby informed and shall understand that at some locations of repairs built up earth and/or debris, water, ice, snow, shrubs, brush, branches, tree limbs, weeds and other vegetation may be encountered that must be removed in order to make the necessary repairs. The clearing of these obstructions as well as any equipment and labor required to deal with existing water regardless of depth shall be considered included as part of the contract and no additional compensation provided. All work shall be done in a neat and workmanlike manner and to the satisfaction of the Engineer.

FIELD OFFICE AND FIELD LABORATORY

Engineer's field office and field laboratory will not be required for this improvement.

This work will not be paid for separately but shall be considered included as part of the contract with no additional compensation provided.

SEEDING

Damage to turf areas shall be repaired as specified for Seeding, Class 2A in the applicable portions of Section 250 with the following requirements:

Damage occurring after October 1st shall be repaired between April 1st and April 30th of the following year.

This work will not be paid for separately but shall be considered included as part of the contract with no additional compensation provided.

REMOVAL OR REPAIR OF FENCE

No fence shall be removed from State right-of-way under this contract unless each section to be removed is clearly marked for removal. A representative of the Department of Transportation will paint an "X" on the section of fence to be removed and will indicate the limits of each section of fence to be removed by painting a vertical line at each end. The type and quantity of each piece so marked will be listed on a work order. This work order, when presented to the Contractor by a State Representative, will be authorization for the removal or repair of the fence.

Material removed from State right-of-way will be disposed of by the Contractor outside the right-of-way limits at locations provided by him. None of this material shall be reused on this project. The removal, transportation and storage of material removed from State right-of-way under this contract will not be paid for separately, but the cost thereof shall be included in the contract unit price for the pay items.

The removal of snow fence which has been installed in damaged fence areas as a temporary protective measure shall be removed, rolled and left at the work site for pick-up by Maintenance forces. The removal and handling of snow fence under this contract will not be paid for separately, but the cost thereof shall be included in the contract unit price for pay items.

New material shall conform to the dimensions and shapes of the material to be replaced except as noted, and shall meet the requirements as specified under each item in these Special Provisions and in the plans. Damaged fence that has been removed shall be completely replaced on the same day that has been removed.

Each replacement post shall be installed in the same spot. The Contractor is to take any necessary action to not to create additional holes in any area of repair without approval and direction from the Engineer.

Any ground or bituminous material adjacent to the concrete footing, which is removed or disturbed during the removal operations shall be restored to its original condition and to the satisfaction of the Engineer after the fence has been re-erected. This restoration will not be paid for separately but shall be considered included in this item of work.

After the work is completed, the Contractor **must mark a post at each end of the repair area and any new posts** using a paint stick or ribbon with the work order number and date of repair.

CONCRETE FOOTINGS

Recurring Special Provisions Check Sheet #23 requires Quality Control/Quality Assurance of Portland Cement Concrete Mixtures. Area Batch Plants usually require a one yard or more minimum order for delivery. The majority of repair Work Order locations for this contract will require less than a yard of concrete to complete repairs. When a Work Order Repair site requires **LESS** than a **yard** of Portland Cement Mix to complete the repair the Contractor will be allowed to use a **HIGH EARLY STRENGTH** Concrete Bag Mix. The **required HIGH EARLY STRENGTH** Concrete Bag Mix shall have a **Compressive strength of 2500 psi at 3 days and 3500 psi at 14 days with a slump range of 2"-3"**. When a Work Order Repair site requires a **yard or more** of Portland Cement Mix to complete the repair the Contractor shall provide Portland Cement Mix as per Recurring Special Provisions Check Sheet #23 Quality Control/Quality Assurance of Portland Cement Concrete Mixtures requirements.

WOVEN WIRE FENCE 4 FT

This work shall consist of removing and disposing of the damaged 4 ft fence and posts and installing the complete fence, including line posts, in accordance with Standard 665001 and Section 665 to match the type existing. Tying or fastening existing fabric to new posts and splicing the undamaged fabric or posts shall be considered incidental. Stretcher bars and fabric ties shall be considered included in this item.

Basis of Payment: This item will be paid for at the contract unit price per foot for WOVEN WIRE FENCE, 4'.

CHAIN LINK FABRIC, TYPE 1, 4 FT

Fabric and accessories such as tension wire, stretcher bars and fabric ties shall conform to the requirements of Standard 664001 and Section 664.

The fabric is to be fastened to the posts and to the top and bottom tension wire shown on Standard 664001. Tying or fastening existing fabric to new posts and splicing to undamaged fabric shall be considered included as part of the contract unit cost of new posts. Stretcher bars and fabric ties, and tension wire, top and bottom, terminal to terminal, shall also be considered included as part of the fabric and no additional compensation provided.

Method of Measurement.

This work will be measured for payment in feet, along the top of the fence from end to end of the fence installed.

Basis of Payment: This item shall be paid for at the contract unit price per foot of new CHAIN LINK FABRIC, TYPE 1, 4'-0".

CHAIN LINK FABRIC, TYPE 3, SPECIAL

This work includes chain link fabric used as replacement for damaged fence less than 4 ft in height.

Fabric shall conform to the requirements of Standards 664001 and Section 664. The fabric is to be fastened to the posts with fabric bands spaced approximately 14 inches apart, and to the top and bottom tension wires with ties spaced approximately 24 inches apart. Stretcher bars and fabric ties shall also be considered included as part of the fabric and no additional compensation provided.

Method of Measurement.

This work will be measured for payment in feet, along the top of the fence from end to end of the fence installed.

Basis of Payment: This item shall be paid for at the contract unit price per foot of CHAIN LINK FABRIC, TYPE 3, SPECIAL, for new fabric installed.

CHAIN LINK FENCE 8 FT

This work shall consist of installing new 8 ft. Chain Link Fabric, Terminal Posts and Line Posts at locations where no existing chain link fabric and posts currently exists. All material and accessories shall conform to the requirements of Standard 664001 and Section 664. Also included in this work is all removal of debris including clearing of shrubs, brush, branches, weeds and any other vegetation encountered.

The fabric is to be fastened to the posts and to the top and bottom tension wire shown on Standard 664001. Galvanized posts are to be set at a distance of 10 ft center to center. All posts shall be set in Portland Cement on concrete footings and the new footings shall be according to Standard 664001. The posts shall be plumb except on curves where they shall be set at a uniform distance from the edge.

Basis of Payment: This item shall be paid for at the contract unit price per foot for CHAIN LINK FENCE 8'.

CHAIN LINK FABRIC SPECIAL

Chain link fabric used as replacement for damaged fence 5 ft, 6 ft, 7 ft and 8 ft in height shall be the same as the material described under Section 664. Installation shall conform to all other details relating to erection as delineated on Standard 664001. Stretcher bars, fabric ties and tension wire, top and bottom, terminal to terminal, shall be considered included as part of the fabric and no additional compensation provided.

Method of Measurement.

This work will be measured for payment in feet, along the top of the fence from end to end of the fence installed.

Basis of Payment: This item shall be paid for at the contract unit price per foot of CHAIN LINK FABRIC SPECIAL, of the height specified.

STRETCHING CHAIN LINK FABRIC

The Contractor is hereby informed, and shall understand, that existing fabric that may have become loose or disconnected adjacent to newly installed fabric shall also be stretched to remove all slack to the satisfaction of the Engineer.

After stretching, the fabric shall be attached to the tension wire and posts in accord with the applicable portions of Article 664.08, Standard 664001 and as directed by the Engineer in charge. Additional fabric ties necessary to re-attach the fabric shall be provided by the Contractor.

This work will not be measured for payment and will be considered included as part of the chain link fence pay items.

CHAIN LINK FENCE REMOVAL

Description.

This work consists of the removal and satisfactory disposal of existing chain link fence at the locations shown on the plans or as directed by the Engineer.

General.

The chain link fences to be removed are approximately 4 ft and 6 ft in height with the posts set in concrete. Removal shall include posts, fence fabric, fittings, appurtenances, attachments and concrete foundation. Any holes created by removal of the foundation shall be filled with clean earth to eliminate any hazard to the public.

Method of Measurement.

This work will be measured for payment in feet along the top of the fence from end to end of the fence removed.

Basis of Payment.

This work will be paid for at the contract unit price per foot for CHAIN LINK FENCE REMOVAL, which price shall include all equipment, labor, and materials required to remove and dispose of existing chain link fence and restore the site as herein specified.

LINE POST TYPE 1, 4 FT

Galvanized posts shall conform to the requirements of Standard 664001. Posts utilized in the repair work shall be the same type shape as posts adjacent to the repair area unless otherwise directed by the Engineer. No used materials will be permitted.

Posts are to be set at a distance of 10 ft center to center and in the same location as the original line. All posts shall be set in portland cement concrete footings and the new footings shall be capped according to Standard 664001. The posts shall be plumb with front faces in a straight line, except on curves where they shall be set at a uniform distance from the edge of pavement. Any and all existing concrete footings, including those left behind from previous (including, but not limited to previous repair contracts) repairs, at the limits of the repair shall be removed in total and the holes shall be filled in full with topsoil.

ALL posts shall be installed in the **same exact spot** and care taken **not** to create new additional hole in any other area of repair without approval and direction from the Engineer.

Method of Measurement.

This work will be measured for final payment in place, after inspection by Engineer. Post will be measure as each post.

Basis of Payment: This item will be paid for at the contract unit price each for LINE POST, TYPE 1

TERMINAL POST, TYPE 1, 4 FT

Galvanized posts shall conform to the requirements of Standard 664001. Posts utilized in the repair work shall be the same type shape as posts adjacent to the repair area unless otherwise directed by the Engineer. No used materials will be permitted.

Construction and materials will conform to details and tables where applicable as shown on Standard 664001 and will include all required appendages such as braces, truss rods, nuts, bolts, etc., as shown on Standard 664001. All posts shall be set in portland cement concrete footings and the new footings shall be capped according to Standard 664001. Any and all existing concrete footings, including those left from previous repairs, at the locations where damaged posts are to be removed, shall be removed in total.

ALL posts shall be installed in the **same exact spot** and care taken **not** to create new additional hole in any other area of repair without approval and direction from the Engineer.

Method of Measurement.

This work will be measured for final payment in place, after inspection by Engineer. Post will be measure as each post.

Basis of Payment: This item will be paid for at the contract unit price each for TERMINAL POST TYPE 1

LINE POST, TYPE 3 SPECIAL AND TERMINAL POST, TYPE 3 SPECIAL

Line or terminal posts attached to any type of structure (fastened to retaining wall, end, corner or gate) shall conform to the requirements of Standard 664001. Height and shape of new posts shall match existing damaged material unless otherwise directed by the Engineer.

Posts, accessories, construction and materials shall be according to Article 1006.27 and Standard 664001. Posts are to be installed according to the existing installation or as otherwise directed by the Engineer and as shown on Standard 10-SS-514. All posts shall have new base plates where base plate is required or currently exists. Base plates must be galvanized after fabrication and shall have the same dimensions as shown in Standard 10-SS-514. Work will include all required appendages such as braces, truss rods, nuts, bolts, washers, welding and tension wire.

ALL posts shall be installed in the **same exact spot** and care taken **not** to create new additional hole in any other area of repair without approval and direction from the Engineer.

Method of Measurement.

This work will be measured for final payment in place, after inspection by Engineer. Post will be measure as each post.

Basis of Payment: This item will be paid for at the contract unit price each for LINE POSTS, TYPE 3 SPECIAL or TERMINAL POST, TYPE 3 SPECIAL.

POST, SPECIAL

(Line, terminal, end, corner and gate) Posts, Special shall conform to the requirements of Standard 664001. Galvanized posts shall conform to the requirements of Standard 664001. Posts utilized in the repair work shall be the same type shape as posts adjacent to the repair area unless otherwise directed by the Engineer. No used materials will be permitted. Posts, Special are used in chain link fence over 4 ft, above ground, in height.

Construction and materials will conform to details and tables where applicable as shown on Standard 664001 and will include all required appendages such as braces, truss rods, nuts, bolts, etc., as shown on Standard 664001. All posts shall be set in portland cement concrete footings and the new footings shall be capped in accordance with Standard 664001. Any and all existing concrete footings, including those left from previous repairs, at the locations where damaged posts are to be removed, shall be removed in total.

ALL posts shall be installed in the **same exact spot** and care taken **not** to create new additional hole in any other area of repair without approval and direction from the Engineer.

Basis of Payment: This item will be paid for at the contract unit price each for POST, SPECIAL, regardless of height of post involved.

POST REMOVAL AND REPLACEMENT

This work consists of the removal of existing fence posts by drilling or coring and driving and grouting a new fence post (line, terminal, end, corner and gate) according to the applicable portions of Sections 584, 664 and 1025 and the details shown in the plans. Post Removal and Replacement is used to repair posts without changing post location. Posts shall be installed in the same exact spot and care taken not to create/new additional holes in any other area of the repair.

Construction and materials will conform with details and tables where applicable as shown on Standard 664001 and will include replacement of any damaged appendages such as braces, truss rods, nuts, bolts, etc., as shown on Standard 664001 and reattachment of the existing fence.

Galvanized posts shall conform to the requirements of Standard 664001. Posts utilized in the repair work shall be the same type shape as posts adjacent to the repair area unless otherwise directed by the Engineer. No used materials will be permitted.

ALL posts shall be installed in the **same exact spot** and care taken **not** to create new additional hole in any other area of repair without approval and direction from the Engineer.

Method of Measurement.

This work will be measured for final payment in place, after inspection by Engineer. Post will be measure as each post.

Basis of Payment: This work will be paid for at the contract unit price per each for POST REMOVAL AND REPLACEMENT.

PULL POST ARRANGEMENT

This work shall consist of installing new pull posts, corner posts, end posts, or gate posts, set in concrete for woven wire fences and shall be in accordance with Section 665 and Standard 665001.

Construction and materials will conform to details and tables where applicable as shown on Standard 665001 and will include all required appendages such as braces, truss rods, nuts, bolts, etc., as shown on Standard 665001. All posts shall be set in portland cement concrete footings in accordance with the plans for Pedestrian Barrier, Type 1. Any and all existing concrete footings, including those left from previous repairs, at the locations where damaged posts are to be removed, shall be removed in total.

Method of Measurement.

This work will be measured for final payment in place, after inspection by Engineer. Post will be measure as each post.

Basis of Payment: This item will be paid for at the contract unit price per each for PULL POST ARRANGEMENT, regardless of height of post involved.

STRAIGHTENING POSTS AND GATE FRAMING

A bent post or gate frame shall be straightened rather than replaced if, when straightened, it maintains its functional strength and has nearly the same appearance as when originally installed. The Engineer shall be the sole judge as to whether a post or gate shall be straightened or replaced.

This item will not be measured for payment and shall be considered included as part of the contract with no additional compensation provided.

The gate shall also be adjusted as needed to open and close as originally installed.

TOPS

All round posts will be fitted with dome type tops to conform to existing installation. These tops are hot dipped processed zinc coated. The base of the top to carry an apron around the outsize of the post. This Special Provision does not apply to locations utilizing "H", "C" and "I" section posts.

New tops shall be provided for all new installations of Line Post Type 1, Line Post Type 3, Terminal Post Type 1, Post Special and End Post Type 3. Tops shall also be provided for any existing posts to remain that have missing or damaged tops within the marked section of repair. Existing undamaged tops may be utilized in the repair work.

New tops or existing undamaged tops will not be measured for payment and this work shall be considered as included in the contract unit prices for the construction items involved, and no additional compensation will be allowed.

CROSS BRACINGS

All Terminal Posts Types and Line Post Types requiring Cross Bracing will be fitted with new Cross Bracing conforming to existing installations. Cross Bracings shall also be provided for any existing posts to remain that have missing Cross Braces within the marked section of repair. Existing undamaged Cross Bracing may be utilized in the repair as per the approval of the Department's Engineer.

New Cross Bracing or existing undamaged Cross Bracing will not be measured for payment and this work shall be considered as included in the contract unit prices for the construction items involved, and no additional compensation will be allowed.

SECURITY FENCE TIES

At locations where the fence to be repaired is designated "Security Fence" by the engineer, all fabric ties shall be made of No. 8 gauge galvanized steel. **Fasten the fabric to the posts securely with No. 8 gauge – Ties spaced 6 inches apart along each post each side of fabric sections.** This work shall not be paid for separately but shall be included with the pay items involved.

TENSION WIRES

This work consists of furnishing and installing new tension wire, terminal to terminal, top and bottom, at repair locations where top or bottom rail is non-existent, and where existing damaged tension wire is repaired by splicing or removing and replacing with new tension wire as specified by the Engineer. If area of repair has no existing tension wire, top and bottom, new tension wire shall be installed top and bottom terminal to terminal. This work also includes splicing, tightening and tying existing tension wire outside of the repair area as required to stretch the new tension wire to the satisfaction of the Engineer.

Tension wire, turnbuckles, fabric ties and accessories shall be according to the requirements as specified in Art. 1006.27 and Highway Standard 664001.

Tension wire will not be paid for as a separate item, but the cost shall be considered as included in the contract unit price for the chain link fence items involved, and no additional compensation will be allowed.

FENCE RAIL REMOVAL

This work shall consist of removing all existing damaged or undamaged top and/or bottom rail and installing **new** tension wire **along both the top and bottom, terminal to terminal** or as specified by the Engineer.

At locations of damaged "chain link fence" anchored in concrete footings, both the damaged rail and the undamaged rail shall be removed in each direction, away from the damaged area to the nearest terminal post. In the event the spacing of existing terminal posts exceed 660 lineal feet, the Engineer in charge shall specify the length of rail to be removed.

If deemed necessary and as specified by the Engineer, existing undamaged line posts shall be removed and replaced with terminal posts. Terminal posts shall be paid for as described elsewhere in these Special Provisions and the contract unit price shall include disconnecting the existing chain link fabric from the existing line post, the removal of the existing line post, the furnishing and installation of the new terminal post and the connecting of the existing chain link fabric to the new terminal post.

At locations of damaged "Pedestrian Barrier Type 3", mounted on concrete retaining walls, the damaged top and bottom rail shall be removed and replaced with tension wire within the limits as specified by the Engineer.

Tension wire to be used shall be in accordance with the requirements as specified in Article 1006.27 and Standard 664001.

Furnishing and installing turnbuckles (eye to eye type), fabric ties and accessories shall be as specified in the plans and in accordance with Standard 664001 and shall be considered incidental with no additional compensation provided.

Method of Measurement: Fence Rail Removal shall be measured for payment in linear feet, but only when damaged or undamaged top and/or bottom rail is removed in each direction away from the damaged area to the nearest terminal post or as otherwise directed by the Engineer.

The length of Fence Rail Removal paid for shall include the overall existing installed length measured along the top of the fence from center to center of posts. Bottom and top tension wire shall be considered incidental and shall be installed terminal to terminal except at locations of existing bottom rail removal. At locations of existing bottom rail to be removed the length of Fence Rail Removal paid for shall include the overall installed length measured along the bottom of the fence from center to center of posts.

Basis of Payment: Fence Rail Removal shall be paid for at the contract unit price per foot of FENCE RAIL REMOVAL.

CHAIN LINK GATES SPECIAL

This work shall consist of removing and disposing of existing damaged gates and/or existing fabric damaged or non-damaged and installing the complete new gate(s), including but not limited to posts, footings, hinges, truss rods, frames, braces, gate stops, and plunger rod and latch with provision for pad locking. No used materials will be permitted. All old footing shall be completely removed.

Chain link gates installation will be of single or double arrangement. Dimensions of chain link gates will be as specified on the work order. Installation shall conform to all other details relating to erection as delineated on Standard 664001.

Method of Measurement.

This work will be measured for final payment in place, after inspection by Engineer. Each gate will be measured for payment in square feet along the top of the fence from end post to end post and measured height from center of top rail to bottom rail.

Basis of Payment: This item shall be paid for at the contract unit price per square foot of CHAIN LINK GATES SPECIAL. No additional compensation will be made to match existing conditions of adjacent fence.

CONTRACTOR'S RESPONSIBILITY FOR UTILITIES

The contractor is responsible for contacting JULIE (or DIGGER within the City of Chicago) prior to any excavation work. Please note that IDOT electrical facilities are not part of the one-call locating services, such as JULIE or DIGGER.

If the contract requires the services of an electrical contractor, it is the contractor's responsibility, at their own expense, to locate existing IDOT electrical facilities before commencing work. For contracts that do not require an electrical contractor, the contractor may request one free locate of IDOT electrical facilities by contacting the Department's Electrical Maintenance Contractor. Additional locate requests will be at the contractor's expense.

The Department's Electrical Maintenance Contractor must be notified at least 72 hours in advance of the work by calling 773-287-7600 or emailing dispatch@meade100.com to arrange for the locating of underground electrical facilities.

Please note, the marking of underground facilities does not absolve the contractor of their responsibility to repair or replace any facilities damaged during construction at their expense.

CONTRACTOR'S RESPONSIBILITY FOR DAMAGE TO EXISTING STRUCTURES

Extreme care shall be exercised when driving posts since there are drainage structures, storm sewers, sign foundations, culverts, electrical and surveillance conduit, and other existing objects within the immediate work limits of this project. Operations are to be conducted in a manner which will minimize damage to the surrounding area.

The Contractor shall be held responsible for any damage to existing structures resulting from his operations. The Contractor shall, at his own expense, restore the damaged structures to a condition equal to that existing before such damaged was done by repairing, rebuilding or replacing it as directed by the Engineer. Where, in the opinion of the Engineer, the Contractor through his operations has excessively damaged the surrounding area, the Contractor shall restore the surrounding area to a condition meeting the satisfaction of the Engineer at his own expense.

No extra compensation will be allowed the Contractor for compliance with this requirement.

THE CONTRACTOR'S LIABILITY

The trees, shrubs and seeded areas on or adjacent to the work should be protected from unnecessary damage by the Contractor's operations in a manner satisfactory to the Engineer. The Contractor shall be responsible for the damage or destruction of property of any character resulting from neglect, misconduct, or omission in the execution or non-execution of the work, or caused by defective work or the use of unsatisfactory materials. Such responsibilities shall not be released until the work has been completed and accepted according to the requirements of these Special Provisions.

Damage to any property, public or private, shall be repaired by the Contractor to a condition equivalent to its original condition at no cost to the Department.

FINAL CLEAN-UP

All final cleaning up shall conform to the requirements set forth in Article 104.06. This will be required at each location where repairs have been completed.

SAMPLE WORK ORDER



**Illinois Department
of Transportation**

Pedestrian Barrier Wall Repair Work Order No.

Date: _____ Prepared By: _____ Contract: _____

| | | |
|-------------------------------|----------------------------------|-------------------------------|
| <input type="checkbox"/> Cook | <input type="checkbox"/> DuPage | <input type="checkbox"/> Kane |
| <input type="checkbox"/> Lake | <input type="checkbox"/> McHenry | <input type="checkbox"/> Will |

| | |
|--------------------------------|-------------------|
| <input type="checkbox"/> North | Team Section Name |
| <input type="checkbox"/> South | |

Marked Route: _____ Municipality: _____

Location: _____

| <u>Item</u> | <u>Unit</u> | <u>Quantity</u> | <u>Item</u> | <u>Unit</u> | <u>Quantity</u> |
|-----------------------------------|-------------|-----------------|--------------------------|-------------|-----------------|
| Chain Link Fabric Type 1, 4 | Ft. | _____ | Terminal Post Type 1 | Ea. | _____ |
| Chain Link Fabric Type 3, Special | Ft. | _____ | Cross Bracing | Ea. | _____ |
| Chain Link Fabric Special, 5 | Ft. | _____ | Post, Special | Ea. | _____ |
| Chain Link Fabric Special, 8 | Ft. | _____ | Post Sleeve Repair | Ea. | _____ |
| Chain Link Fabric Special, 8 | Ft. | _____ | Tops | Ea. | _____ |
| Fence Rail Removal | Ft. | _____ | Chain Link Fence Removal | Ft. | _____ |
| | | | Straightening Post | Ea. | _____ |
| | | | End Post Type 3 | Ea. | _____ |
| | | | Line Post Type 1 | Ea. | _____ |
| | | | Line Post Type 3 | Ea. | _____ |
| | | | Woven Wire Fence 4 | Ft. | _____ |
| | | | Pull Post Arrangement | Ea. | _____ |
| | | | | | |
| | | | | | |

Note: The contractor shall inspect, in detail, the site of work to determine the required traffic control and protection before proceeding with the work.

Special Instructions: _____

| Authorization of Work | |
|------------------------------|---------------------------|
| Resident Signature _____ | |
| Date Work Order issued _____ | Contractor Initials _____ |

| Certification of Completed Work |
|---------------------------------|
| Contractor Signature _____ |
| Date Work Order Completed _____ |

| Distribution |
|--|
| White – Contractor Canary – Resident Pink – Resident Gold – Inspector |

| Inspection and Acceptance of Completed Work |
|---|
| Inspector Signature _____ |
| Date Work Order Inspected and Accepted _____ This is to certify that the work order has been completed |

NOTIFICATION OF STATE ELECTRICAL MAINTENANCE CONTRACTOR

The Contractor prior to the commencement of his work shall notify the State Electrical Maintenance Contractor of his intent to perform this work. Upon request from the Contractor, the State Electrical Maintenance Contractor will locate any State-buried cable, conduit or other electrical facility which may interfere with the Contractor's operations, without charge to him.

Should any damage occur to any State electrical facility through the Contractor's operations, the Contractor shall report the known or suspected damage to the State Maintenance Contractor and the Engineer. If repairs are needed, the Engineer will authorize the Electrical Maintenance Contractor to effect repairs. All repairs or replacement of damaged equipment shall conform to the requirements of the original installation.

The Electrical Maintenance Contractor shall invoice the Contractor directly for the cost of the repair. A copy of this invoice shall be forwarded to the Engineer. Final payment of the contract shall not be processed until a release from the Electrical Maintenance Contractor is furnished to the Engineer.

No extra compensation shall be allowed the Contractor for compliance with these requirements or for any expense incurred to effect repairs to damaged electrical facilities.

TRAFFIC CONTROL PLAN

Effective: September 30, 1985

Revised: January 1, 2007

Traffic Control shall be according to the applicable sections of the Standard Specifications, the Supplemental Specifications, the "Illinois Manual on Uniform Traffic Control Devices for Streets and Highways", any special details and Highway Standards contained in the plans, and the Special Provisions contained herein.

Special attention is called to Article 107.09 of the Standard Specifications and the following Highway Standards, Details, Quality Standard for Work Zone Traffic Control Devices, Recurring Special Provisions and Special Provisions contained herein, relating to traffic control.

The Contractor shall contact the District One Bureau of Traffic at least 72 hours in advance of beginning work.

STANDARDS: 701001, 701006, 701101, 701106, 701201, 701301, 701306, 701311, 701336, 701400, 701401, 701411, 701421, 701426, 701427, 701428, 701501, 701502, 701601, 701602, 701606, 701701, 701801 & 701901.

DETAILS:

Entrance Ramp and Closure Details (TC-08)
Traffic Control and Protection for Side Roads, Intersections and Driveways (TC-10)
Traffic Control and Protection at Turn Bays (to Remain Open to Traffic) (TC-14)
Traffic Control for Shoulder Closures and Partial Ramp Closures (TC-17)

SPECIAL PROVISIONS:

Public Convenience and Safety (D1)
Nighttime Work Zone Lighting (District One)
Work Zone Traffic Control (D-1 Maintenance)
Traffic Control Deficiency Deduction for Pedestrian Barrier and
Guardrail Repair
Keeping Expressway Open to Traffic
Failure to Open Expressways Lanes to Traffic
Traffic Control for Work Zones
Traffic Control and Protection (Expressways)(Maintenance)
Keeping Arterial Roadways Open to Traffic (Lane Closures Only)
Speed Display Trailer (D1)
Automated Flagger Assistance Devices (BDE)
Short Term and Temporary Pavement Markings (BDE)
Work Zone Traffic Control Devices (BDE)
Vehicle and Equipment Warning Lights (BDE)

PUBLIC CONVENIENCE AND SAFETY (D1)

Effective: May 1, 2012
Revised: July 15, 2012

Add the following to the end of the fourth paragraph of Article 107.09:

“If the holiday is on a Saturday or Sunday, and is legally observed on a Friday or Monday, the length of Holiday Period for Monday or Friday shall apply.”

Add the following sentence after the Holiday Period table in the fourth paragraph of Article 107.09:

“The Length of Holiday Period for Thanksgiving shall be from 5:00 AM the Wednesday prior to 11:59 PM the Sunday After”

Delete the fifth paragraph of Article 107.09 of the Standard Specifications:

“On weekends, excluding holidays, roadways with Average Daily Traffic of 25,000 or greater, all lanes shall be open to traffic from 3:00 P.M. Friday to midnight Sunday except where structure construction or major rehabilitation makes it impractical.”

KEEPING THE EXPRESSWAY OPEN TO TRAFFIC

Effective: March 22, 1996

Revised: October 9, 2020

Whenever work is in progress on or adjacent to an expressway, the Contractor shall provide the necessary traffic control devices to warn the public and to delineate the work zone as required in these Special Provisions, the Standard Specifications, the State Standards and the District Freeway details. All Contractors' personnel shall be limited to these barricaded work zones and shall not cross the expressway.

The Contractor shall request and gain approval from the Illinois Department of Transportation's Expressway Traffic Operations Engineer at www.idotlcs.com twenty-four (24) hours in advance of all daily lane, ramp and shoulder closures and 7 days in advance of all permanent and weekend closures on all Freeways and/or Expressways in District One. This advance notification is calculated based on workweek of Monday through Friday and shall not include weekends or Holidays.

Temporary shoulder and non-system interchange partial ramp closures are allowed weekdays between 9:00 A.M. and 3:00 P.M. and between 7:00 P.M. and 5:00 A.M. or as approved by the Expressway Traffic Operations Engineer. Lane closures are normally not permitted during the day. Exact hours will be determined by the Expressway Traffic Operations Engineer.

Narrow Lanes and permanent shoulder closures will not be allowed between Dec. 1st and April 1st. Permanent shoulder closures per District Detail TC-17 will only be permitted if called for in the plans or as approved by the Expressway Traffic Operations Engineer.

All daily lane closures shall be removed during adverse weather conditions such as rain, snow, and/or fog and as determined by the Engineer. Also, the contractor shall promptly remove their lane closures when Maintenance forces are out for snow and ice removal.

Additional lane closure hour restrictions may have to be imposed to facilitate the flow of traffic to and from major sporting events and/or other events.

Private vehicles shall not be parked in the work zone. Contractor's equipment and/or vehicles shall not be parked on the shoulders or in the median during non-working hours. The parking of equipment and/or vehicles on State right-of-way will only be permitted at the locations approved by the Engineer.

TRAFFIC CONTROL AND PROTECTION (EXPRESSWAYS)(MAINTENANCE)

Effective: March 8, 1996

Revised: April 1, 2019

Description. This work shall include furnishing, installing, maintaining, replacing, relocating, and removing all traffic control devices used for the purpose of regulating, warning, or directing traffic. Traffic control and protection shall be provided as called for in the plans, applicable Highway Standards, District One Expressway details, Standards and Supplemental Specifications, these Special Provisions, or as directed by the Engineer.

General. The governing factor in the execution and staging of work for this project is to provide the motoring public with the safest possible travel conditions on the expressway through the

construction zone. The Contractor shall arrange his operations to keep the closing of lanes and/or ramps to a minimum.

The Contractor shall be responsible for the proper location, installation, and arrangement of all traffic control devices. Special attention shall be given to existing warning signs and overhead guide signs during all construction operations. Warning signs and existing guide signs with down arrows shall be kept consistent with the barricade placement at all times. The Contractor shall immediately remove, completely cover, or turn from the motorist's view all signs which are inconsistent with lane assignment patterns.

The Contractor shall coordinate all traffic control work on this project with adjoining or overlapping projects, including barricade placement necessary to provide a uniform traffic detour pattern. When directed by the Engineer, the Contractor shall remove all traffic control devices that were furnished, installed, or maintained by him under this contract, and such devices shall remain the property of the Contractor. All traffic control devices shall remain in place until specific authorization for relocation or removal is received from the Engineer.

Additional requirements for traffic control devices shall be as follows.

- (a) Traffic Control Setup and Removal. The setting and removal of barricades for the taper portion of a lane closure shall be done under the protection of a vehicle with a truck/trailer mounted attenuator and arrow board per State Standard 701428 and Section 701 of the Standard Specifications. Failure to meet this requirement will be subject to a Traffic Control Deficiency. The deficiency will be calculated as outlined in Article 105.03 of the Standard Specifications. Truck/trailer mounted attenuators shall comply with Article 1106.02(g) or shall meet the requirements of NCHRP 350 Test Level 3 with vehicles used in accordance with manufacturer's recommendations and requirements.

(b) Sign Requirements

- (1) Sign Maintenance. Prior to the beginning of construction operations, the Contractor will be provided a sign log of all existing signs within the limits of the construction zone. The Contractor is responsible for verifying the accuracy of the sign log. Throughout the duration of this project, all existing traffic signs shall be maintained by the Contractor. All provisions of Article 107.25 of the Standard Specifications shall apply.

- (2) Work Zone Speed Limit Signs. Work zone speed limit signs shall be installed as required in Article 701.14(b) and as shown in the plans and Highway Standards. Based upon the existing posted speed limit, work zone speed limits shall be established and signed as follows.
- a. Existing Speed Limit of 55mph or higher. The initial work zone speed limit assembly, located approximately 4200' before the closure, and shall be 55mph as shown in 701400. Additional work zone 45mph assemblies shall be used as required according to Article 701.14(b) and as shown in the Highway Standards and plans. WORK ZONE SPEED LIMIT 55 PHOTO ENFORCED assemblies may be omitted when this assembly would normally be placed within 1500 feet of the END WORK ZONE SPEED LIMIT sign. If existing speed limit is over 65mph then additional signage should be installed per 701400.
 - b. Existing Speed Limit of 45mph. The advance 55mph work zone speed limit assembly shown in 701400 shall be replaced with a 45mph assembly. Additional work zone 45mph assemblies shall be used as required according to Article 701.14(b) and as shown in the Highway Standards and plans. WORK ZONE SPEED LIMIT 55 PHOTO ENFORCED assemblies shall be eliminated in all cases. END WORK ZONE SPEED LIMIT signs are required.
- (3) Exit Signs. The exit gore signs as shown in Standard 701411 shall be a minimum size of 48 inch by 48 inch with 12 inch capital letters and a 20 inch arrow. EXIT OPEN AHEAD signs shown in Standard 701411 shall be a minimum size of 48 inch by 48 inch with 8 inch capital letters.
- (4) Uneven Lanes Signs. The Contractor shall furnish and erect "UNEVEN LANES" signs (W8-11) on both sides of the expressway, at any time when the elevation difference between adjacent lanes open to traffic equals or exceeds one inch. Signs shall be placed 500' in advance of the drop-off, within 500' of every entrance, and a minimum of every mile.
- (c) Drums/Barricades. Check barricades shall be placed in work areas perpendicular to traffic every 1000', one per lane and per shoulder, to prevent motorists from using work areas as a traveled way. Check barricades shall also be placed in advance of each open patch, or excavation, or any other hazard in the work area, the first at the edge of the open traffic lane and the second centered in the closed lane. Check barricades, either Type I or II, or drums shall be equipped with a flashing light.

To provide sufficient lane widths (10' minimum) for traffic and also working room, the Contractor shall furnish and install vertical barricades, in lieu of Type II or drums, along the cold milling and asphalt paving operations. The vertical barricades shall be placed at the same spacing as the drums.

- (d) Vertical Barricades. Vertical barricades shall not be used in lane closure tapers, lane shifts, exit ramp gores, or staged construction projects lasting more than 12 hours. Also, vertical barricades shall not be used as patch barricades or check barricades. Special attention shall be given, and ballast provided per manufacture's specification, to maintain the vertical barricades in an upright position and in proper alignment.
- (e) Temporary Concrete Barrier Wall. Prismatic barrier wall reflectors shall be installed on both the face of the wall next to traffic, and the top of sections of the temporary concrete barrier wall as shown in Standard 704001. The color of these reflectors shall match the color of the edgelines (yellow on the left and crystal or white on the right). If the base of the temporary concrete barrier wall is 12 inches or less from the travel lane, then the lower slope of the wall shall also have a 6 inch wide temporary pavement marking edgeline (yellow on the left and white on the right).
- (f) Flaggers. One flagger will be required for each separate activity of an operation that requires frequent construction vehicles to enter or leave a work zone to or from a lane open to traffic. Temporary traffic control and flagger position shall be according to District One Detail TC-18 – Expressway Flagging, or as directed by the Engineer.
- (g) Full Expressway Closures. Full Expressway Closures will only be permitted for a maximum of 15 minutes during the allowable hours listed in the Keeping the Expressway Open to Traffic Special Provision. During Full Expressway Closures, the Contractor will be required to close off all lanes except one, using Freeway Standard Closures. The Contractor will be required to provide one changeable message sign to be placed at the direction of the Engineer. The sign shall display a message as directed by the Engineer. A Maintenance of Traffic Plan shall be submitted to the District One Expressway Traffic Control Supervisor 14 days in advance of the planned work; including all stage changes. The Maintenance of Traffic Plan shall include, but not be limited to: lane and ramp closures, existing geometrics, and equipment and material location. The District One Expressway Traffic Control Supervisor (847-705-4151) shall be contacted at least 3 working days in advance of the proposed road closure and will coordinate the closure operation with police forces.

Method of Measurement.

Traffic Control and Protection will not be measured for payment.

All work for furnishing, installing, maintaining, replacing, relocating, and removing traffic control devices required in the plans and these Special Provisions shall be included in the contract unit prices for the construction item involved. Traffic control and protection required under Standards 701101, 701400, 701401, 701402, 701406, 701411, 701416, 701426, 701428, 701446, 701901 and District details TC-8, TC-9, TC-17, and TC-18 will be included with this item.

Basis of Payment.

- (a) Traffic Control and Protection will not be paid for as separate items, but the costs shall be considered as included in the contract unit prices for the construction items involved, and no additional compensation will be allowed.
- (b) Work or revisions in the phasing of construction or maintenance operations may require traffic control to be installed in accordance with a Standard other than those included in the plans. In such cases, the Standards will be made available to the Contractor at least one week in advance of the change in traffic control. Payment for traffic control required by these added Standards will be according to Article 109.04. Revisions or modifications to increase the traffic control protection shown in the contract shall be submitted by the Contractor for approval by the Engineer. A reduction of the traffic control shown in the contract will not be allowed.

KEEPING ARTERIAL ROADWAYS OPEN TO TRAFFIC (LANE CLOSURES ONLY)

Effective: January 22, 2003

Revised: August 10, 2017

The Contractor shall provide the necessary traffic control devices to warn the public and to delineate the work zone as required in these Special Provisions, the Standard Specifications, the State Standards, and the District Details.

Arterial lane closures shall be in accordance with the Standard Specifications, Highway Standards, District Details, and the direction of the Engineer. The Contractor shall request and gain approval from the Engineer seventy-two (72) hours in advance of all long-term (24 hrs. or longer) lane closures.

Arterial lane closures not shown in the staging plans will not be permitted during **peak traffic volume hours**.

Peak traffic volume hours are defined as weekdays (Monday through Friday) from **6:00 AM to 8:30 AM and 4:30 PM to 6:00 PM**.

Private vehicles shall not be parked in the work zone. Contractor's equipment and/or vehicles shall not be parked on the shoulders or in the median during non-working hours. The parking of equipment and/or vehicles on State right-of-way will only be permitted at locations approved by the Engineer in accordance with Articles 701.08 and 701.11 of the Standard Specifications.

Should the Contractor fail to completely open and keep open all the traffic lanes to traffic in accordance with the limitations specified above, the Contractor shall be liable to the Department for the amount of:

One lane or ramp blocked = \$ 1000 / 15 min

Two lanes blocked = \$ 2,500 / 15 min

Not as a penalty but as liquidated and ascertained damages for each and every 15 minute interval or a portion thereof that a lane is blocked outside the allowable time limitations. Such damages may be deducted by the Department from any monies due the Contractor. These damages shall apply during the contract time and during any extensions of the contract time.

TRAFFIC CONTROL DEFICIENCY DEDUCTION FOR PEDESTRIAN BARRIER AND GUARDRAIL REPAIR

To ensure a prompt response to incidents involving the integrity of the work zone traffic control devices, the Contractor shall provide a telephone number where a responsible individual can be contacted on a 24-hour-a-day basis. When the Engineer is notified or determines a deficiency exists, the Engineer shall be the sole judge as to whether the deficiency is an immediate safety hazard. When workers are present, the Contractor shall make needed corrections of deficiencies that constitute an immediate safety hazard within 15 minutes of notification. At all other times, the Contractor shall dispatch sufficient resources within 2 hours of notification to make needed corrections of deficiencies that constitute an immediate safety hazard. Other deficiencies shall be corrected within 12 hours. If the Contractor fails to restore the required traffic control and protection within the time limits specified above, the Engineer will impose a daily monetary deduction for each 24-hour period (or portion thereof) the deficiency exists. This time period will begin with the time of notification to the Contractor and end with the Resident Engineer's acceptance of the corrections. For this project, the daily deduction will be * per day per deficiency. In addition, if the Contractor fails to respond, the Engineer may correct the deficiencies and the cost thereof will be deducted from monies due or which may become due the Contractor. This corrective action will in no way relieve the Contractor of his/her contractual requirements or responsibilities.

*The cost of the daily deduction will be calculated by dividing three percent of the awarded contract price by the number of calendar days anticipated for this project. The number of days anticipated for this project is 380. This procedure is to be followed regardless of whether the contract is based upon working days, contains a completion date, or has an incentive/disincentive clause.

WORK ZONE TRAFFIC CONTROL (D-1 MAINTENANCE)

Effective: May 30, 2006

Revised: June 15, 2010

Revise Article 701.19 Method of Measurement to read:

"Traffic Control and Protection will not be measured for payment."

Revise Article 701.20 Basis of Payment to read:

"(a) Traffic Control and Protection will not be paid for as separate items, but the costs shall be considered as included in the contract unit prices for the construction items involved, and no additional compensation will be allowed.

(b) Work or revisions in the phasing of construction or maintenance operations may require traffic control to be installed in accordance with a Standard other than those included in the plans. In such cases, the Standards will be made available to the Contractor at least one week in advance of the change in traffic control. Payment for traffic control required by these added Standards will be according to Article 109.04. Revisions or modifications to increase the traffic control protection shown in the contract shall be submitted by the Contractor for approval by the Engineer. A reduction of the traffic control shown in the contract will not be allowed."

FAILURE TO OPEN TRAFFIC LANES TO TRAFFIC

Effective: March 22, 1996

Revised: February 9, 2005

Should the Contractor fail to completely open and keep open all the traffic lanes to traffic in accordance with the limitations specified under the Special Provisions for "Keeping the Expressway Open to Traffic", the Contractor shall be liable to the Department for the amount of:

One lane or ramp blocked = **\$ 1000 / 15 min**

Two lanes blocked = **\$ 2,500 / 15 min**

Not as a penalty but as liquidated and ascertained damages for each and every 15 minute interval or a portion thereof that a lane is blocked outside the allowable time limitations. Such damages may be deducted by the Department from any monies due the Contractor. These damages shall apply during the contract time and during any extensions of the contract time.

TRAFFIC CONTROL FOR WORK ZONE AREAS

Effective: September 14, 1995

Revised: January 1, 2007

Work zone entry and exit openings shall be established daily by the Contractor with the approval of the Engineer. All vehicles including cars and pickup trucks shall exit the work zone at the exit openings. All trucks shall enter the work zone at the entry openings. These openings shall be signed in accordance with the details shown elsewhere in the plans and shall be under flagger control during working hours.

The Contractor shall plan his trucking operations into and out of the work zone as well as on to and off the expressway to maintain adequate merging distance. Merging distances to cross all lanes of traffic shall be no less than 1/2 mile. This distance is the length from where the trucks enter the expressway to where the trucks enter the work zone. It is also the length from where the trucks exit the work zone to where the trucks exit the expressway. The stopping of expressway traffic to allow trucks to change lanes and/or cross the expressway is prohibited.

Failure to comply with the above requirements will result in a Traffic Control Deficiency charge. The deficiency charge will be calculated as outlined in Article 105.03 of the Standard Specifications. The Contractor will be assessed this daily charge for each day a deficiency is documented by the Engineer.

SPEED DISPLAY TRAILER (D1)

Effective: April 1, 2015

Revised: April 1, 2021

Revise the third paragraph of Article 701.11 of the Standard Specifications to read:

“When not being utilized to inform and direct traffic, sign trailers, speed display trailers, arrow boards, and portable changeable message boards shall be treated as nonoperating equipment.”

Add the following to Article 701.15 of the Standard Specifications:

“(m) Speed Display Trailer. A speed display trailer is used to enhance safety of the traveling public and workers in work zones by alerting drivers of their speed, thus deterring them from driving above the posted work zone speed limit.”

Whenever the speed display trailer is not in use, it shall be considered non-operating equipment and shall be stored according to Article 701.11.”

Add the following to Article 701.20 of the Standard Specifications:

“(k) “Speed Display Trailer will NOT be paid for by separate pay item, but its costs shall be included in the contract unit price of the various traffic control pay items.

Add the following to Article 1106.02 of the Standard Specifications:

- “(o) Speed Display Trailer. The speed display trailer shall consist of a LED speed indicator display with self-contained, one-direction radar mounted on an orange see-through trailer. The height of the display and radar shall be such that it will function and be visible when located behind concrete barrier.

The speed measurement shall be by radar and provide a minimum detection distance of 1000 ft (300 m). The radar shall have an accuracy of ± 1 mile per hour.

The speed indicator display shall face approaching traffic and shall have a sign legend of “YOUR SPEED” immediately above or below the speed display. The sign letters shall be between 5 and 8 in. (125mm and 200 mm) in height. The digital speed display shall show two digits (00 to 99) in mph. The color of the changeable message legend shall be a yellow legend on a black background. The minimum height of the numerals shall be 18 in. (450 mm), and the nominal legibility distance shall be at least 750 ft (250 m).

The speed indicator display shall be equipped with a violation alert that flashes the displayed detected speed when the posted limit is exceeded. The speed indicator shall have a maximum speed cutoff. On roadway facilities with a normal posted speed limit greater than or equal to 45 mph, the detected speeds of vehicles traveling more than 25mph over the work zone speed limit shall not be displayed. On facilities with normal posted speed limit of less than 45 mph, the detected speeds of vehicles traveling more than 15 mph over the work zone speed limit shall not be displayed. On any roadway facility if detected speeds are less than 25 mph, speed shall not be displayed. The display shall include automatic dimming for nighttime operation.

The speed indicator measurement and display functions shall be equipped with the power supply capable of providing 24 hours of uninterrupted service.”

NIGHTTIME WORK ZONE LIGHTING (DISTRICT ONE)

Effective: November 1, 2008

Revised: June 15, 2010

Description. This work shall consist of furnishing, installing, maintaining, moving, and removing lighting for nighttime work zones. Nighttime shall be defined as occurring shortly before sunset until after sunrise.

Materials. The lighting shall consist of mobile and/or stationary lighting systems as required herein for the specific type of construction. Mobile lighting systems shall consist of luminaires attached to construction equipment or moveable carts. Stationary lighting systems shall consist of roadway luminaires mounted on temporary poles or trailer mounted light towers at fixed locations. Some lighting systems, such as balloon lights, may be adapted to both mobile and stationary applications.

Equipment. The Contractor shall furnish an illuminance meter for use by the Engineer. The meter shall have a digital display calibrated to NIST standards, shall be cosine and color corrected, and shall have an accuracy of \pm five percent. The sensor shall have a level indicator to ensure measurements are taken in a horizontal plane.

CONSTRUCTION REQUIREMENTS

General. At the preconstruction conference, the Contractor shall submit the type(s) of lighting system to be used and the locations of all devices.

Before nighttime construction may begin, the lighting system shall be demonstrated as being operational.

Nighttime Flagging. The requirements for nighttime flagging shall be according to Article 701.13 of the Standard Specifications and the glare control requirements contained herein.

Lighting System Design. The lighting system shall be designed to meet the following.

- (a) Lighting Levels. The lighting system shall provide a minimum of 5 foot candles (54 lux) throughout the work area. For mobile operations, the work area shall be defined as 25 ft (9 m) in front of and behind moving equipment. For stationary operations, the work area shall be defined as the entire area where work is being performed.

Lighting levels will be measured with an illuminance meter. Readings will be taken in a horizontal plane 3 ft (1 m) above the pavement or ground surface.

- (b) Glare Control. The lighting system shall be designed and operated so as to avoid glare that interferes with traffic, workers, or inspection personnel. Lighting systems with flood, spot, or stadium type luminaires shall be aimed downward at the work and rotated outward no greater than 30 degrees from nadir (straight down). Balloon lights shall be positioned at least 12 ft (3.6 m) above the roadway.

As a large component of glare, the headlights of construction vehicles and equipment shall not be operated within the work zone except as allowed for specific construction operations. Headlights shall never be used when facing oncoming traffic.

- (c) Light Trespass. The lighting system shall be designed to effectively light the work area without spilling over to adjoining property. When, in the opinion of the Engineer, the lighting is disturbing adjoining property, the Contractor shall modify the lighting arrangement or add hardware to shield the light trespass.

Construction Operations. The lighting design required above shall be provided at any location where construction equipment is operating or workers are present on foot. When multiple operations are being carried on simultaneously, lighting shall be provided at each separate work area.

The lighting requirements for specific construction operations shall be as follows.

- (a) Installation or Removal of Work Zone Traffic Control. The required lighting level shall be provided at each truck and piece of equipment used during the installation or removal of work zone traffic control. Headlights may be operated in the work zone.
- (b) Guardrail, Fence and High Tension Cable Barrier Median Repair. The required lighting level shall be provided by mounting a minimum of one balloon light to each piece of mobile construction equipment used in the work zone. This would include all machines but not include trucks used to transport materials and personnel or other vehicles that are continuously moving in and out of the work zone. The headlights of construction equipment shall not be operated within the work zone.
- (c) Pavement Marking and Raised Reflective Pavement Marker Removal/Installation. The striping truck and the attenuator/arrow board trucks may be operated by headlights alone; however, additional lighting may be necessary for the operator of the striping truck to perform the work.

For raised reflective pavement marker removal and installation and other pavement marking operations where workers are on foot, the required lighting level shall be provided at each truck and piece of equipment.

- (d) Sweeping. The required lighting level shall be mounted on the sweeping train vehicles during the sweeping operations. Headlights may be operated in the work zone.
- (e) Layout, Testing, and Inspection. The required lighting level shall be provided for each active area of construction layout, material testing, and inspection. The work area shall be defined as 15 ft (7.6 m) in front and back of the individual(s) performing the tasks.

Nighttime Work Zone Lighting will not be paid for as a separate item, but the cost shall be considered as included in the contract unit prices for the construction items involved, and no additional compensation will be allowed.

AUTOMATED FLAGGER ASSISTANCE DEVICES (BDE)

Effective: January 1, 2008

Revised: April 1, 2023

Description. This work shall consist of furnishing and operating automated flagger assistance devices (AFADs) as part of the work zone traffic control and protection for two-lane highways where two-way traffic is maintained over one lane of pavement in segments where no sideroads or entrances require deployment of additional flaggers. Use of these devices shall be at the option of the Contractor.

Equipment. AFADs shall be the STOP/SLOW or Red/Yellow Lens type mounted on a trailer or moveable cart meeting the requirements of the MUTCD and NCHRP 350 or MASH 2016, Category 4.

General. AFADs shall be placed at each end of the traffic control, where a flagger is shown on the plans. The AFAD shall be setup within five degrees of vertical.

Flagger symbol signs as shown on the plans shall be replaced with "BE PREPARED TO STOP" signs when the AFAD is in operation.

Personal communication devices shall not be used to operate the AFAD.

Flagging Requirements. Flaggers and flagging requirements shall be according to Article 701.13 of the Standard Specifications and the following.

Each AFAD shall be operated by a flagger trained to operate the specific AFAD to be deployed. A minimum of two flaggers shall be on site at all times during operation. Each flagger shall be positioned outside the lane of traffic and near each AFAD's location.

Flagging equipment required for traditional flagging shall be available near each AFAD location in the event of AFAD equipment malfunction/failure.

For nighttime flagging, the AFAD and flagger shall be illuminated according to Article 701.13 of the Standard Specifications.

When not in use, AFADs will be considered non-operating equipment and shall be stored according to Article 701.11 of the Standard Specifications.

Basis of Payment. This work will not be paid for separately but shall be considered as included in the cost of the various traffic control items included in the contract.

CEMENT, FINELY DIVIDED MINERALS, ADMIXTURES, CONCRETE, AND MORTAR (BDE)

Effective: January 1, 2025

Revised: January 1, 2026

Revise the first paragraph of Article 285.05 of the Standard Specifications to read:

“285.05 Fabric Formed Concrete Revetment Mat. The grout shall consist of a mixture of cement, fine aggregate, and water so proportioned and mixed as to provide a pumpable slurry. Fly ash or ground granulated blast furnace (GGBF) slag, and concrete admixtures may be used at the option of the Contractor. The grout shall have an air content of not less than 6.0 percent nor more than 9.0 percent of the volume of the grout. The mix shall obtain a compressive strength of 2500 psi (17,000 kPa) at 28 days according to Article 1020.09.”

Revise Article 302.02 of the Standard Specifications to read:

“302.02 Materials. Materials shall be according to the following.

| Item | Article/Section |
|---|-----------------|
| (a) Cement | 1001 |
| (b) Water | 1002 |
| (c) Hydrated Lime | 1012.01 |
| (d) By-Product, Hydrated Lime | 1012.02 |
| (e) By-Product, Non-Hydrated Lime | 1012.03 |
| (f) Lime Slurry | 1012.04 |
| (g) Fly Ash | 1010 |
| (h) Soil for Soil Modification (Note 1) | 1009.01 |
| (i) Bituminous Materials (Note 2) | 1032 |

Note 1. This soil requirement only applies when modifying with lime (slurry or dry).

Note 2. The bituminous materials used for curing shall be emulsified asphalt RS-2, CRS-2, HFE 90, or HFE 150; rapid curing liquid asphalt RC-70; or medium curing liquid asphalt MC-70 or MC-250.”

Revise Article 312.07(c) of the Standard Specifications to read:

“(c) Cement1001”

Add Article 312.07(i) of the Standard Specifications to read:

“(i) Ground Granulated Blast Furnace (GGBF) Slag1010”

Revise the first paragraph of Article 312.09 of the Standard Specifications to read:

“312.09 Proportioning and Mix Design. At least 60 days prior to start of placing CAM II, the Contractor shall submit samples of materials to be used in the work for proportioning and testing. The mixture shall contain a minimum of 200 lb (120 kg) of cement per cubic yard (cubic meter). Cement may be replaced with fly ash or ground granulated blast furnace (GGBF) slag according to Article 1020.05(c)(1) or 1020.05(c)(2), respectively, however the minimum cement content in the mixture shall be 170 lbs/cu yd (101 kg/cu m). Blends of coarse and fine aggregates will be permitted, provided the volume of fine aggregate does not exceed the volume of coarse aggregate. The Engineer will determine the proportions of materials for the mixture according to the “Portland Cement Concrete Level III Technician Course” manual. However, the Contractor may substitute their own mix design. Article 1020.05(a) shall apply, and a Level III PCC Technician shall develop the mix design.”

Revise Article 352.02 of the Standard Specifications to read:

“352.02 Materials. Materials shall be according to the following.

| Item | Article/Section |
|--|-----------------|
| (a) Cement (Note 1) | 1001 |
| (b) Soil for Soil-Cement Base Course | 1009.03 |
| (c) Water | 1002 |
| (d) Bituminous Materials (Note 2) | 1032 |

Note 1. Bulk cement may be used for the traveling mixing plant method if the equipment for handling, weighing, and spreading the cement is approved by the Engineer.

Note 2. The bituminous materials used for curing shall be emulsified asphalt RS-2, CRS-2, HFE 90, or HFE 150; rapid curing liquid asphalt RC-70; or medium curing liquid asphalt MC-70 or MC-250.”

Revise Article 404.02 of the Standard Specifications to read:

“404.02 Materials. Materials shall be according to the following.

| Item | Article/Section |
|---|-----------------|
| (a) Cement | 1001 |
| (b) Water | 1002 |
| (c) Fine Aggregate | 1003.08 |
| (d) Bituminous Material (Tack Coat) | 1032.06 |
| (e) Emulsified Asphalts (Note 1) (Note 2) | 1032.06 |
| (f) Fiber Modified Joint Sealer | 1050.05 |
| (g) Additives (Note 3) | |

Note 1. When used for slurry seal, the emulsified asphalt shall be CQS-1h according to Article 1032.06(b).

Note 2. When used for micro-surfacing, the emulsified asphalt shall be CQS-1hP according to Article 1032.06(e).

Note 3. Additives may be added to the emulsion mix or any of the component materials to provide the control of the quick-traffic properties. They shall be included as part of the mix design and be compatible with the other components of the mix.

Revise the last sentence of the fourth paragraph of Article 404.08 of the Standard Specifications to read:

“When approved by the Engineer, the sealant may be dusted with fine sand, cement, or mineral filler to prevent tracking.”

Revise Note 2 of Article 516.02 of the Standard Specifications to read:

“Note 2. The sand-cement grout mix shall be according to Section 1020 and shall be a 1:1 blend of sand and cement comprised of a Type I, IL, or II cement at 185 lb/cu yd (110 kg/cu m). The maximum water cement ratio shall be sufficient to provide a flowable mixture with a typical slump of 10 in. (250 mm).”

Revise Note 2 of Article 543.02 of the Standard Specifications to read:

“Note 2. The grout mixture shall be 6.50 hundredweight/cu yd (385 kg/cu m) of cement plus fine aggregate and water. Fly ash or ground granulated blast furnace (GGBF) slag may replace a maximum of 5.25 hundredweight/cu yd (310 kg/cu m) of the cement. The water/cement ratio, according to Article 1020.06, shall not exceed 0.60. An air-entraining admixture shall be used to produce an air content, according to Article 1020.08, of not less than 6.0 percent nor more than 9.0 percent of the volume of the grout. The Contractor shall have the option to use a water-reducing or high range water-reducing admixture.”

Revise Article 583.01 of the Standard Specifications to read:

“**583.01 Description.** This work shall consist of placing cement mortar along precast, prestressed concrete bridge deck beams as required for fairing out any unevenness between adjacent deck beams prior to placing of waterproofing membrane and surfacing.”

Revise Article 583.02(a) of the Standard Specifications to read:

“(a) Cement1001”

Revise the first paragraph of Article 583.03 of the Standard Specifications to read:

“**583.03 General.** This work shall only be performed when the air temperature is 45 °F (7 °C) and rising. The mixture for cement mortar shall consist of three parts sand to one part cement by volume. The amount of water shall be no more than that necessary to produce a workable, plastic mortar.”

Revise Article 606.02(h) of the Standard Specifications to read:

“(h) Fibers (Note 1)1014”

Revise Note 1 in Article 606.02(h) of the Standard Specifications to read:

“Note 1. Fibers, when required, shall only be used in the concrete mixture for slipform applications.”

Revise the third paragraph in Article 606.10 of the Standard Specifications to read:

“Welded wire fabric shall be 6 x 6 in. (150 x 150 mm) mesh, #4 gauge (5.74 mm), 58 lb (26 kg) per 100 sq ft (9 sq m).”

Revise Article 1001.01(d) of the Standard Specifications to read:

“(d) Rapid Hardening Cement. Rapid hardening cement shall be according to the Bureau of Materials Policy Memorandum “Portland or Blended Cement Acceptance Procedure for Qualified and Non-Qualified Plants”, and ASTM C 1600, Type URH, Type VRH, or Type RH-CAC. It shall be used according to Article 1020.04 or when approved by the Engineer. The Contractor shall submit a report from the manufacturer or an independent lab that contains results for testing according to ASTM C 1600 which shows the cement meets the requirements of either Type URH, Type VRH, or Type RH-CAC. Test data shall be less than 1 year old from the date of submittal.

Revise Article 1001.01(e) of the Standard Specifications to read:

“(e) Other Cements. Other cements shall be according to the Bureau of Materials Policy Memorandum “Portland or Blended Cement Acceptance Procedure for Qualified and Non-Qualified Plants”, and ASTM C 1157 or ASTM C 1600, as applicable. Other cements shall be used according to Article 1020.04 or when approved by the Engineer. For cements according to ASTM C 1157, the Contractor shall submit a report from the manufacturer or an independent lab that contains results of tests which shows the cement meets the requirements Type GU, HE, MS, MH, or LH. For cements according to ASTM C 1600, the Contractor shall submit a report from the manufacturer or an independent lab that contains results of tests which shows the cement meets the requirements Type MRH or GRH. Test data shall be less than 1 year old from the date of submittal.”

Revise Article 1002.02 of the Standard Specifications to read:

“1002.02 Quality. Water used with cement in concrete or mortar and water used for curing concrete shall be clean, clear, and free from sugar. In addition, water shall be tested and evaluated for acceptance according to one of the following options.

OPTION 1.

(a) Acceptable limits for acidity and alkalinity when tested according to ITP T 26.

- (1) Acidity -- 0.1 Normal NaOH 2 ml max.*
 - (2) Alkalinity -- 0.1 Normal HCl..... 10 ml max.*
- *To neutralize 200 ml sample.

(b) Acceptable limits for solids when tested according to the following.

- (1) Organic (ITP T 26) 0.02% max.
- (2) Inorganic (ITP T 26) 0.30% max.
- (3) Sulfate (SO₄) (ASTM D 516-82) 0.05% max.
- (4) Chloride (ASTM D 512) 0.06% max.

(c) The following tests shall be performed on the water sample and on deionized water. The same cement and sand shall be used for both tests.

- (1) Unsoundness (ASTM C 151).
- (2) Initial and Final Set Time (ASTM C 266).
- (3) Strength (ASTM C 109).

The test results for the water sample shall not deviate from the test results for the deionized water, except as allowed by the precision in the test method.

OPTION 2. Water shall meet the requirements ASTM C 1602 Tables 1 and 2 as outlined in Sections 5.1, 5.2, and 5.4.”

Revise Note 2/ in Article 1003.01(b) of the Standard Specifications to read:

“2/ Applies only to sand. Sand exceeding the colorimetric test standard of 11 (Illinois Modified AASHTO T 21) will be checked for mortar making properties according to Illinois Modified ASTM C 87 and shall develop a compressive strength at the age of 14 days when using Type I, IL, or II cement of not less than 95 percent of the comparable standard.

Revise the second sentence of Article 1003.02(e)(1) of the Standard Specifications to read:

“The test will be performed with Type I, IL, or II portland cement having a total equivalent alkali content (Na₂O + 0.658K₂O) of 0.90 percent or greater.”

Revise the first sentence of the second paragraph of Article 1003.02(e)(3) of the Standard Specifications to read:

“The ASTM C 1293 test shall be performed with Type I, IL, or II portland cement having a total equivalent alkali content ($\text{Na}_2\text{O} + 0.658\text{K}_2\text{O}$) of 0.80 percent or greater.”

Revise the second sentence of Article 1004.02(g)(1) of the Standard Specifications to read:

“The test will be performed with Type I, IL, or II portland cement having a total equivalent alkali content ($\text{Na}_2\text{O} + 0.658\text{K}_2\text{O}$) of 0.90 percent or greater.”

Add the following Section to the Standard Specifications.

“SECTION 1014. FIBERS FOR CONCRETE

1014.01 General. Fibers used in concrete shall be Type II or Type III (polyolefin or carbon) according to ASTM C 1116. The testing required for Type II fibers or Type III polyolefin fibers shall be performed by an independent lab a minimum of once every five years, and the test results provided to the Department. Manufacturers of Type III carbon fibers shall provide materials certification documentation not more than 6 years old a minimum of once every 5 years to the Department. The Department will maintain a qualified product list. The method of inclusion of fibers into concrete mixtures shall be according to the manufacturer’s specifications.

At the discretion of the Engineer, the concrete mixture shall be evaluated in a field demonstration for fiber clumping, ease of placement, and ease of finishing. The field demonstration shall consist of a minimum 2 cu yd (1.5 cu m) trial batch placed in a 12 ft x 12 ft (3.6 m x 3.6 m) slab.

1014.02 Concrete Gutter, Curb, Median and Paved Ditch. Fibers shall be Type III. Fibers shall have a minimum length of 1/2 in. (13 mm) and a maximum length of 0.75 in. (19 mm). The maximum dosage rate in the concrete mixture shall not exceed 1.5 lb/cu yd (0.9 kg/cu m). The minimum dosage rate shall be per the manufacturer’s recommendation.

1014.03 Concrete Inlay or Overlay. Fibers shall be Type III. Fibers shall have a minimum length of 1.0 in. (25 mm), a maximum length of 2 1/2 in. (63 mm), and a maximum aspect ratio (length divided by the equivalent diameter of the fiber) of 150. The maximum dosage rate shall not exceed 5.0 lb/cu yd (3.0 kg/cu m). The minimum dosage rate shall be per the manufacturer’s recommendation.

1014.04 Bridge Deck Fly Ash, Ground Granulated Blast Furnace (GGBF) Slag, High Reactivity Metakaolin, or Microsilica (Silica Fume) Concrete Overlay. Fibers shall be Type III. The dosage rate shall be a minimum of 3.0 lb/cu yd (1.8 kg/cu m), unless a field demonstration according to Article 1014.01 indicates that a lower dosage rate is necessary. Based on the results of the field demonstration, the Department has the option to reduce the dosage rate of fibers, but the dosage will not be reduced to less than 2.0 lb / cu yd (1.2 kg/cu m).

1014.05 Bridge Deck Latex Concrete Overlay. Fibers shall be Type II or III. Fibers shall have a minimum length of 0.75 in. (19 mm), a maximum length of 1.75 in. (45 mm), and an aspect ratio (length divided by the equivalent diameter of the fiber) of between 70 and 100. The dosage rate shall be a minimum of 3.0 lb/cu yd (1.8 kg/cu m), unless a field demonstration according to Article 1014.01 indicates that a lower dosage rate is necessary. Based on the results of the field demonstration, the Department has the option to reduce the dosage rate of fibers, but the dosage will not be reduced to less than 2.0 lb/cu yd (1.2 kg/cu m)."

Add the following Section to the Standard Specifications:

"SECTION 1015. HIGH PERFORMANCE SHOTCRETE

1015.01 Packaged Shotcrete With Aggregate. The packaged shotcrete with aggregate shall be a pre-blended dry combination of materials for the wet-mix shotcrete method according to ASTM C 1480, Type FA or CA, Grade FR, Class I. The fibers shall be Type III according to Article 1014.01. The cement and finely divided minerals in the mixture shall be a minimum 6.65 cwt/cu yd (395 kg/cu m), and the portland cement shall not be below 4.70 cwt/cu yd (279 kg/cu m). Microsilica is required in the mixture and shall be a minimum of 5 percent by weight (mass) of cementitious material, and a maximum of 10 percent. Strength requirements shall be according to ASTM C 1480 except that the strength at 28 days shall be at least 4000 psi (27,500 kPa). Strength testing shall be according to ASTM C 1140. The air content as shot shall be 4.0 – 8.0 percent when tested according to AASHTO T 152, and the coarse aggregate shall be a maximum size of 1/2 in. (12.5 mm).

The packaged shotcrete shall have a water soluble chloride ion content of less than 0.15% by weight of cementitious material when tested according to ASTM C 1218 or AASHTO T 260.

The testing according to ASTM C 1480, ASTM C 1140, AASHTO 152, and ASTM C 1218 or AASHTO T 260 shall be performed by an independent lab a minimum of once every 5 years, and the test results shall be provided to the Department. The Department will maintain a qualified product list. Batching and mixing shall be per the manufacturer's recommendations.

1015.02 Packaged Shotcrete Without Aggregate. The packaged shotcrete that does not include pre-blended aggregate shall be according to Article 1015.01, except the added aggregate shall be according to Articles 1003.02 and 1004.02. The aggregate gradation shall be according to the manufacturer. The Department will maintain a qualified product list. Batching and mixing shall be per the manufacturer's recommendations."

Revise Section 1017 of the Standard Specifications to read:

“SECTION 1017. PACKAGED, DRY, COMBINED MATERIALS FOR MORTAR AND CONCRETE

1017.01 Mortar. The mortar shall be high-strength according to ASTM C 387 and shall have a minimum 80.0 percent relative dynamic modulus of elasticity when tested according to AASHTO T 161. For prestressed concrete applications, the mortar shall have a water-soluble chloride ion content of less than 0.06 percent by weight of cementitious material when tested according to ASTM C 1218 or AASHTO T 260; and for non-prestressed concrete applications, the water soluble chloride content shall be less than 0.15 percent by weight of cementitious material. The testing according to ASTM C 387, AASHTO T 161, and either ASTM C 1218 or AASHTO T 260 shall be performed by an independent lab a minimum of once every five years, and the test results shall be provided to the Department. The Department will maintain a qualified product list. Mixing of the high-strength mortar shall be according to the manufacturer’s specifications.

1017.02 Concrete. The materials, testing, and preparation of aggregate for the “high slump” packaged concrete mixture shall be according to ASTM C 387. The mixture shall be air entrained, the slump shall be 5-10 in. (125-250 mm), and the coarse aggregate shall be a maximum size of 1/2 in. (12.5 mm). Strength requirements shall be according to ASTM C 387 except that the strength at 28 days shall be at least 4000 psi (27,500 kPa). The “high slump” packaged concrete mixture shall have a water soluble chloride ion content of less than 0.15% by weight of cementitious material when tested according to ASTM C 1218 or AASHTO T 260. The testing according to ASTM C 387, and either ASTM C 1218 or AASHTO T 260 shall be performed by an independent lab a minimum of once every 5 years, and the test results shall be provided to the Department. The Department will maintain a qualified product list. Mixing shall be per the manufacturer’s recommendations.

1017.02 Self-Consolidating Concrete. The materials, testing, and preparation of aggregate for the “self-consolidating concrete” packaged concrete mixture shall be according to ASTM C 387. The mixture shall be air entrained, it should be uniformly graded, and the coarse aggregate shall be a maximum size of 1/2 in. (12.5 mm). Strength requirements shall be according to ASTM C 387 except that the strength at 28 days shall be at least 4000 psi (27,500 Pa). Slump flow range shall be 22 in. (550 mm) minimum to 28 in. (700 mm) maximum when tested according to AASHTO T 347. The visual stability index shall be a maximum of 1 when tested according to AASHTO T 351. At the option of the manufacturer, either the J-Ring value shall be a maximum of 2 in. (50 mm) when tested according to AASHTO T 347 or the L-Box blocking ratio shall be a minimum of 80 percent when tested according AASHTO T 419. The hardened visual stability index shall be a maximum of 1 when tested according to AASHTO R 81.

The “self -consolidating concrete” packaged concrete mixture shall have a water soluble chloride ion content of less than 0.15 percent by weight of cementitious material when tested according to ASTM C 1218 or AASHTO T 260.

The testing according to ASTM C 387, AASHTO T 347, AASHTO T 351, AASHTO T 419, AASHTO R 81, ASTM C 1218 and AASHTO T 260 shall be performed by an independent lab a minimum of once every 5 years, and the test results shall be provided to the Department. The Department will maintain a qualified product list. Mixing shall be per the manufacturer's recommendations."

Revise Article 1018.01 of the Standard Specifications to read:

"1018.01 Requirements. The rapid hardening mortar or concrete shall be according to ASTM C 928 and shall have successfully completed and remain current with the AASHTO Product Eval and Audit Rapid Hardening Concrete Patching Materials (RHCP) testing program. R1, R2, or R3 concrete shall be air entrained, the slump shall be 5-10 in. (125-250 mm), and the coarse aggregate shall be a maximum size of 1/2 in. (12.5 mm). For prestressed concrete applications, the mortar or concrete shall have a water-soluble chloride ion content of less than 0.06 percent by weight of cementitious material when tested according to ASTM C 1218 or AASHTO T 260; and for non-prestressed concrete applications, the water soluble chloride content shall be less than 0.15 percent by weight of cementitious material. The Department will maintain a qualified product list. Mixing of the mortar or concrete shall be according to the manufacturer's specifications.."

Revise Article 1019.02 of the Standard Specifications to read:

"1019.02 Materials. Materials shall be according to the following.

| Item | Article/Section |
|--|-----------------|
| (a) Cement | 1001 |
| (b) Water | 1002 |
| (c) Fine Aggregate for Controlled Low-Strength Material (CLSM) | 1003.06 |
| (d) Fly Ash | 1010 |
| (e) Ground Granulated Blast Furnace (GGBF) Slag..... | 1010 |
| (f) Admixtures (Note 1) | |

Note 1. The air-entraining admixture may be in powder or liquid form. The air content produced by the admixture shall be 15-25 percent when incorporated into Mix 2 or an equivalent mixture as determined by the Department and tested according to AASHTO T 121 or AASHTO T 152. The testing according to AASHTO T 121 or AASHTO T 152 shall be performed by an independent lab a minimum of once every five years, and the test results shall be provided to the Department. The Department will maintain a qualified product list."

Revise the third paragraph of Article 1019.04 of the Standard Specifications to read:

"The Engineer will instruct the Contractor to adjust the proportions of the mix design in the field as needed to meet the design criteria, provide adequate flowability, maintain proper solid suspension, or other criteria established by the Engineer."

Revise Article 1019.05 of the Standard Specifications to read:

“1019.05 Department Mix Design. The Department mix design shall be Mix 1, 2, or 3 and shall be proportioned to yield approximately one cubic yard (cubic meter).

| Mix 1 | |
|--|-----------------------|
| Cement | 50 lb (30 kg) |
| Fly Ash – Class C or F, and/or GGBF Slag | 125 lb (74 kg) |
| Fine Aggregate – Saturated Surface Dry | 2900 lb (1720 kg) |
| Water | 50-65 gal (248-322 L) |
| Air Content | No air is entrained |

| Mix 2 | |
|--|-----------------------|
| Cement | 125 lb (74 kg) |
| Fine Aggregate – Saturated Surface Dry | 2500 lb (1483 kg) |
| Water | 35-50 gal (173-248 L) |
| Air Content | 15-25 % |

| Mix 3 | |
|--|-----------------------|
| Cement | 40 lb (24 kg) |
| Fly Ash – Class C or F, and/or GGBF Slag | 125 lb (74 kg) |
| Fine Aggregate – Saturated Surface Dry | 2500 lb (1483 kg) |
| Water | 35-50 gal (179-248 L) |
| Air Content | 15-25 %” |

Revise Article 1020.04, Table 1, Note (8) of the Standard Specifications to read:

“(8) In addition to the Type III portland cement, 100 lb/cu yd of ground granulated blast-furnace slag and 50 lb/cu yd of microsilica (silica fume) shall be used. For an air temperature greater than 85 °F, the Type III portland cement may be replaced with Type I, IL, or II portland cement.”

Revise Article 1020.04, Table 1 (Metric), Note (8) of the Standard Specifications to read:

“(8) In addition to the Type III portland cement, 60 kg/cu m of ground granulated blast-furnace slag and 30 kg/cu m of microsilica (silica fume) shall be used. For an air temperature greater than 30 °C, the Type III portland cement may be replaced with Type I, IL, or II portland cement.”

Revise Note 9 of Table 1 of Article 1020.04 of the Standard Specifications to read:

“(9) The cement shall be a rapid hardening according to Article 1001.01(d). Minimum or maximum cement factor may be adjusted when approved by the Engineer.”

Revise the second paragraph of Article 1020.05(a) of the Standard Specifications to read:

“For a mix design using a portland-pozzolan cement, portland blast-furnace slag cement, portland-limestone cement, or replacing portland cement with finely divided minerals per Articles 1020.05(c) and 1020.05(d), the Contractor may submit a mix design with a minimum portland cement content less than 400 lbs/cu yd (237 kg/cu m), but not less than 375 lbs/cu yd (222 kg/cu m), if the mix design is shown to have a minimum relative dynamic modulus of elasticity of 80 percent determined according to AASHTO T 161. Testing shall be performed by an independent laboratory accredited by AASHTO re:source for Portland Cement Concrete.”

Revise the first sentence of the first paragraph of Article 1020.05(b) of the Standard Specifications to read:

“Corrosion inhibitors and concrete admixtures shall be according to the qualified product lists.”

Delete the fourth and fifth sentences of the second paragraph of Article 1020.05(b) of the Standard Specifications.

Revise Article 1020.05(b)(5) of the Standard Specifications to read:

“(5) For Class PP-4 concrete, a high range water-reducing admixture, retarder, and/or hydration stabilizer may be used in addition to the air-entraining admixture. The Contractor also has the option to use a water-reducing admixture with the high range water-reducing admixture. An accelerator shall not be used. A mobile portland cement concrete plant shall be used to produce the patching mixture.

For PP-5 concrete, a non-chloride accelerator, high range water-reducing admixture, retarder, hydration stabilizer, and/or air-entraining admixture may be used. The accelerator, high range water-reducing admixture, retarder, hydration stabilizer, and/or air-entraining admixture shall be per the Contractor’s recommendation and dosage. The qualified product list of concrete admixtures shall not apply. A mobile portland cement concrete plant shall be used to produce the patching mixture.”

Revise second paragraph of Article 1020.05(b)(10) of the Standard Specifications to read:

“When calcium nitrite is used, it shall be added at the rate of 4 gal/cu yd (20 L/cu m) and shall be added to the mix immediately after all compatible admixtures have been introduced to the batch. Other corrosion inhibitors shall be added per the manufacturer’s specifications.”

Delete the third paragraph of Article 1020.05(b)(10) of the Standard Specifications.

Revise Article 1020.15(b)(1)c. of the Standard Specifications to read:

- “c. The minimum portland cement content in the mixture shall be 375 lbs/cu yd (222 kg/cu m). When the total of organic processing additions, inorganic processing additions, and limestone addition exceed 5.0 percent in the cement, the minimum portland cement content in the mixture shall be 400 lbs/cu yd (237 kg/cu m). For a drilled shaft, foundation, footing, or substructure, the minimum portland cement may be reduced to as low as 330 lbs/cu yd (196 kg/cu m) if the concrete has adequate freeze/thaw durability. The Contractor shall provide freeze/thaw test results according to AASHTO T 161, and the relative dynamic modulus of elasticity of the mix design shall be a minimum of 80 percent. Testing shall be performed by an independent laboratory accredited by AASHTO re:source for Portland Cement Concrete. Freeze/thaw testing will not be required for concrete that will not be exposed to freezing and thawing conditions as determined by the Engineer.”

Revise Article 1021.01 of the Standard Specifications to read:

“**1021.01 General.** Admixtures shall be furnished in liquid or powder form ready for use. The admixtures shall be delivered in the manufacturer's original containers, bulk tank trucks or such containers or tanks as are acceptable to the Engineer. Delivery shall be accompanied by a ticket which clearly identifies the manufacturer, the date of manufacture, and trade name of the material. Containers shall be readily identifiable as to manufacturer, the date of manufacture, and trade name of the material they contain.

Concrete admixtures shall be on one of the Department's qualified product lists. Unless otherwise noted, admixtures shall have successfully completed and remain current with the AASHTO Product Eval and Audit Concrete Admixture (CADD) testing program. For admixture submittals to the Department; the product brand name, manufacturer name, admixture type or types, an electronic link to the product's technical data sheet, and the NTPEP testing number which contains an electronic link to all test data shall be provided. In addition, a letter shall be submitted certifying that no changes have been made in the formulation of the material since the most current round of tests conducted by AASHTO Product Eval and Audit. After 28 days of testing by AASHTO Product Eval and Audit, air-entraining admixtures may be provisionally approved and used on Departmental projects. For all other admixtures, unless otherwise noted, the time period after which provisionally approved status may be earned is 6 months.

The manufacturer shall include the following in the submittal to the AASHTO Product Eval and Audit CADD testing program: the manufacturing range for specific gravity, the midpoint and manufacturing range for residue by oven drying, and manufacturing range of pH. The submittal shall also include an infrared spectrophotometer trace no more than five years old.

For air-entraining admixtures according to Article 1021.02, the specific gravity allowable manufacturing range established by the manufacturer shall be according to AASHTO M 194. For residue by oven drying and pH, the allowable manufacturing range and test methods shall be according to AASHTO M 194.

For admixtures according to Articles 1021.03, 1021.04, 1021.05, 1021.06, 1021.07, and 1021.08, the pH allowable manufacturing range established by the manufacturer shall be according to ASTM E 70. For specific gravity and residue by oven drying, the allowable manufacturing range and test methods shall be according to AASHTO M 194.

All admixtures, except chloride-based accelerators, shall contain a maximum of 0.3 percent chloride by weight (mass) as determined by an appropriate test method. To verify the test result, the Department will use Illinois Modified AASHTO T 260, Procedure A, Method 1.

Prior to final approval of an admixture, the Engineer reserves the right to request a sample for testing. The test and reference concrete mixtures tested by the Engineer will contain a cement content of 5.65 cwt/cu yd (335 kg/cu m). For freeze-thaw testing, the Department will perform the test according to Illinois Modified AASHTO T 161. The flexural strength test will be performed according to AASHTO T 177. If the Engineer decides to test the admixture, the manufacturer shall submit AASHTO T 197 water content and set time test results on the standard cement used by the Department. The manufacturer may select their lab or an independent lab to perform this testing. The laboratory is not required to be accredited by AASHTO.

Random field samples may be taken by the Department to verify an admixture meets specification. A split sample will be provided to the manufacturer if requested. Admixtures that do not meet specification requirements or an allowable manufacturing range established by the manufacturer shall be replaced with new material.”

Revise Article 1021.03 of the Standard Specifications to read:

“**1021.03 Retarding and Water-Reducing Admixtures.** The admixture shall be according to the following.

- (a) Retarding admixtures shall be according to AASHTO M 194, Type B (retarding) or Type D (water-reducing and retarding).
- (b) Water-reducing admixtures shall be according to AASHTO M 194, Type A.
- (c) High range water-reducing admixtures shall be according to AASHTO M 194, Type F (high range water-reducing) or Type G (high range water-reducing and retarding).”

Revise Article 1021.05 of the Standard Specifications to read:

“**1021.05 Self-Consolidating Admixtures.** Self-consolidating admixture systems shall consist of either a high range water-reducing admixture only or a high range water-reducing admixture combined with a separate viscosity modifying admixture. The one or two component admixture system shall be capable of producing a concrete that can flow around reinforcement and consolidate under its own weight without additional effort and without segregation.

High range water-reducing admixtures shall be according to AASHTO M 194, Type F.

Viscosity modifying admixtures shall be according to AASHTO M 194, Type S (specific performance).”

Revise Article 1021.06 of the Standard Specifications to read:

“1021.06 Rheology-Controlling Admixture. Rheology-controlling admixtures shall be capable of producing a concrete mixture with a lower yield stress that will consolidate easier for slipform applications used by the Contractor. Rheology-controlling admixtures shall be according to AASHTO M 194, Type S (specific performance).”

Revise Article 1021.07 of the Standard Specifications to read:

“1021.07 Corrosion Inhibitor. The corrosion inhibitor shall be according to one of the following.

(a) Calcium Nitrite. Corrosion inhibitors shall contain a minimum 30 percent calcium nitrite by weight (mass) of solution and shall comply with either the requirements of AASHTO M 194, Type C (accelerating) or the requirements of ASTM C 1582. The corrosion inhibiting performance requirements of ASTM C 1582 shall not apply.

(b) Other Materials. The corrosion inhibitor shall be according to ASTM C 1582.

For submittals requiring testing according to ASTM M 194, Type C (accelerating), the admixture shall meet the requirements of the AASHTO Product Eval and Audit CADD testing program according to Article 1021.01.

For submittals requiring testing according to ASTM C 1582, a report prepared by an independent laboratory accredited by AASHTO re:source for portland cement concrete shall be provided. The report shall show the results of physical tests conducted no more than five years prior to the time of submittal, according to applicable specifications. However, ASTM G 109 test information specified in ASTM C 1582 is not required to be from an independent accredited lab. All other information in ASTM C 1582 shall be from an independent accredited lab. Test data and other information required to be submitted to AASHTO Product Eval and Audit according to Article 1021.01, shall instead be submitted directly to the Department.”

Add Article 1021.08 of the Standard Specifications as follows:

“1021.08 Other Specific Performance Admixtures. Other specific performance admixtures shall, at a minimum, be according to AASHTO M 194, Type S (specific performance). The Department also reserves the right to require other testing, as determined by the Engineer, to show evidence of specific performance characteristics.

Initial testing according to AASHTO M 194 may be conducted under the AASHTO Product Eval and Audit CADD testing program according to Article 1021.01, or by an independent laboratory accredited by AASHTO re:source for Portland Cement Concrete. In either case, test data and other information required to be submitted to AASHTO Product Eval and Audit according to Article 1021.01, shall also be submitted directly to the Department. The independent accredited lab report shall show the results of physical tests conducted no more than five years prior to the time of submittal, according to applicable specifications.”

Add Article 1021.09 of the Standard Specifications as follows:

“1021.09 Latex Admixtures. The latex admixture shall be a uniform, homogeneous, non-toxic, film-forming, polymeric emulsion in water to which all stabilizers have been added at the point of manufacture. The latex admixture shall not contain any chlorides and shall contain 46-49 percent solids.

In lieu of meeting the requirements of Article 1021.01, the Contractor shall submit a manufacturer's certification that the latex emulsion meets the requirements of FHWA Research Report RD-78-35, Chapter VI. The certificate shall include the date of manufacture of the latex admixture, batch or lot number, quantity represented, manufacturer's name, and the location of the manufacturing plant. The latex emulsion shall be sampled and tested in accordance with RD-78-35, Chapter VII, Certification Program.

The latex admixture shall be packaged and stored in containers and storage facilities which will protect the material from freezing and from temperatures above 85°F (30°C). Additionally, the material shall not be stored in direct sunlight and shall be shaded when stored outside of buildings during moderate temperatures.”

Revise Article 1024.01 of the Standard Specifications to read:

“1024.01 Requirements for Grout. The grout shall be proportioned by dry volume, thoroughly mixed, and shall have a minimum temperature of 50 °F (10 °C). Water shall not exceed the minimum needed for placement and finishing.

Materials for the grout shall be according to the following.

| Item | Article/Section |
|--|-----------------|
| (a) Cement | 1001 |
| (b) Water | 1002 |
| (c) Fine Aggregate | 1003.02 |
| (d) Fly Ash | 1010 |
| (e) Ground Granulated Blast Furnace (GGBF) Slag..... | 1010 |
| (f) Concrete Admixtures | 1021” |

Revise Note 1 of Article 1024.02 of the Standard Specifications to read:

“Note 1. Nonshrink grout shall be according to ASTM C 1107.

For prestressed concrete applications, the nonshrink grout shall have a water soluble chloride ion content of less than 0.06 percent by weight of cementitious material when tested according to ASTM C 1218 or AASHTO T 260; and for non-prestressed concrete applications, the water soluble chloride ion content shall be less than 0.15 percent by weight of cementitious material. The testing according to ASTM 1107, and either ASTM C 1218 or AASHTO T 260 shall be performed by an independent lab a minimum of once every five years, and the test results shall be provided to the Department. The Department will maintain a qualified product list. Mixing of the nonshrink grout shall be according to the manufacturer's specifications.”

Revise Article 1029.02 of the Standard Specifications to read:

“ **1029.02 Materials.** Materials shall be according to the following.

| Item | Article/Section |
|---|-----------------|
| (a) Cement..... | 1001 |
| (b) Fly Ash | 1010 |
| (c) Ground Granulated Blast Furnace (GGBF) Slag | 1010 |
| (d) Water..... | 1002 |
| (e) Fine Aggregate..... | 1003 |
| (f) Concrete Admixtures | 1021 |
| (g) Foaming Agent (Note 1) | |

Note 1. The manufacturer shall submit infrared spectrophotometer trace and test results indicating the foaming agent meets the requirements of ASTM C 869 in order to be on the Department's qualified product list. Submitted data/results shall not be more than five years old.”

Revise the second paragraph of Article 1103.03(a)(4) the Standard Specifications to read:

“The dispenser system shall provide a visual indication that the liquid admixture is actually entering the batch, such as via a transparent or translucent section of tubing or by independent check with an integrated secondary metering device. If approved by the Engineer, an alternate indicator may be used for admixtures dosed at rates of 25 oz/cwt (1630 mL/100 kg) or greater, such as accelerating admixtures, corrosion inhibitors, and viscosity modifying admixtures.”

Revise Article 1103.04 of the Standard Specifications to read:

“ **1103.04 Mobile Portland Cement Concrete Plants.** The mobile concrete plant shall be according to AASHTO M 241 and the Bureau of Materials Policy Memorandum “Approval of Volumetric Mobile Mixers for Concrete”. The mixer shall be capable of carrying sufficient unmixed materials to produce not less than 6 cu yd (4.6 cu m) of concrete.”

Revise the first two sections of Check Sheet #11 “Subsealing of Concrete Pavements” of the Recurring Special Provisions to read:

“Description. This work shall consist of filling voids beneath rigid and composite pavements with cement grout.

Materials. Materials shall be according to the following Articles/Sections of the Standard Specifications:

| Item | Article/Section |
|---|-----------------|
| (a) Cement | 1001 |
| (b) Water | 1002 |
| (c) Fly Ash | 1010 |
| (d) Ground Granulated Blast Furnace (GGBF) Slag..... | 1010 |
| (e) Admixtures | 1021 |
| (f) Packaged Rapid Hardening Mortar or Concrete | 1018" |

Revise the Materials section of Check Sheet #28 "Portland Cement Concrete Inlay or Overlay" of the Recurring Special Provisions to read:

"Materials. Materials shall be according to the following Articles/Sections of the Standard Specifications.

| Item | Article/Section |
|---|-----------------|
| (a) Portland Cement Concrete (Note 1) | 1020 |
| (b) Fibers for Concrete..... | 1014 |
| (c) Protective Coat..... | 1023.01 |

Note 1. Class PV concrete shall be used, except the cement factor for central mixed concrete shall be 6.05 cwt/cu yd (360 kg/cu m). A cement factor reduction according to Article 1020.05(b)(8) of the Standard Specifications will be permitted. CA 5 shall not be used and CA 7 may only be used for overlays that are a minimum of 4.5 in. (113 mm) thick. The Class PV concrete shall have a minimum flexural strength of 550 psi (3800 kPa) or a minimum compressive strength of 3000 psi (20,700 kPa) at 14 days."

COMPENSABLE DELAY COSTS (BDE)

Effective: June 2, 2017

Revised: April 1, 2019

Revise Article 107.40(b) of the Standard Specifications to read:

"(b) Compensation. Compensation will not be allowed for delays, inconveniences, or damages sustained by the Contractor from conflicts with facilities not meeting the above definition; or if a conflict with a utility in an unanticipated location does not cause a shutdown of the work or a documentable reduction in the rate of progress exceeding the limits set herein. The provisions of Article 104.03 notwithstanding, compensation for delays caused by a utility in an unanticipated location will be paid according to the provisions of this Article governing minor and major delays or reduced rate of production which are defined as follows.

- (1) Minor Delay. A minor delay occurs when the work in conflict with the utility in an unanticipated location is completely stopped for more than two hours, but not to exceed two weeks.
- (2) Major Delay. A major delay occurs when the work in conflict with the utility in an unanticipated location is completely stopped for more than two weeks.
- (3) Reduced Rate of Production Delay. A reduced rate of production delay occurs when the rate of production on the work in conflict with the utility in an unanticipated location decreases by more than 25 percent and lasts longer than seven calendar days."

Revise Article 107.40(c) of the Standard Specifications to read:

"(c) Payment. Payment for Minor, Major, and Reduced Rate of Production Delays will be made as follows.

- (1) Minor Delay. Labor idled which cannot be used on other work will be paid for according to Article 109.04(b)(1) and (2) for the time between start of the delay and the minimum remaining hours in the work shift required by the prevailing practice in the area.

Equipment idled which cannot be used on other work, and which is authorized to standby on the project site by the Engineer, will be paid for according to Article 109.04(b)(4).

- (2) Major Delay. Labor will be the same as for a minor delay.

Equipment will be the same as for a minor delay, except Contractor-owned equipment will be limited to two weeks plus the cost of move-out to either the Contractor's yard or another job and the cost to re-mobilize, whichever is less. Rental equipment may be paid for longer than two weeks provided the Contractor presents adequate support to the Department (including lease agreement) to show retaining equipment on the job is the most economical course to follow and in the public interest.

- (3) Reduced Rate of Production Delay. The Contractor will be compensated for the reduced productivity for labor and equipment time in excess of the 25 percent threshold for that portion of the delay in excess of seven calendar days. Determination of compensation will be in accordance with Article 104.02, except labor and material additives will not be permitted.

Payment for escalated material costs, escalated labor costs, extended project overhead, and extended traffic control will be determined according to Article 109.13."

Revise Article 108.04(b) of the Standard Specifications to read:

“(b) No working day will be charged under the following conditions.

- (1) When adverse weather prevents work on the controlling item.
- (2) When job conditions due to recent weather prevent work on the controlling item.
- (3) When conduct or lack of conduct by the Department or its consultants, representatives, officers, agents, or employees; delay by the Department in making the site available; or delay in furnishing any items required to be furnished to the Contractor by the Department prevents work on the controlling item.
- (4) When delays caused by utility or railroad adjustments prevent work on the controlling item.
- (5) When strikes, lock-outs, extraordinary delays in transportation, or inability to procure critical materials prevent work on the controlling item, as long as these delays are not due to any fault of the Contractor.
- (6) When any condition over which the Contractor has no control prevents work on the controlling item.”

Revise Article 109.09(f) of the Standard Specifications to read:

“(f) Basis of Payment. After resolution of a claim in favor of the Contractor, any adjustment in time required for the work will be made according to Section 108. Any adjustment in the costs to be paid will be made for direct labor, direct materials, direct equipment, direct jobsite overhead, direct offsite overhead, and other direct costs allowed by the resolution. Adjustments in costs will not be made for interest charges, loss of anticipated profit, undocumented loss of efficiency, home office overhead and unabsorbed overhead other than as allowed by Article 109.13, lost opportunity, preparation of claim expenses and other consequential indirect costs regardless of method of calculation.

The above Basis of Payment is an essential element of the contract and the claim cost recovery of the Contractor shall be so limited.”

Add the following to Section 109 of the Standard Specifications.

“109.13 Payment for Contract Delay. Compensation for escalated material costs, escalated labor costs, extended project overhead, and extended traffic control will be allowed when such costs result from a delay meeting the criteria in the following table.

| Contract Type | Cause of Delay | Length of Delay |
|-----------------|--|---|
| Working Days | Article 108.04(b)(3) or Article 108.04(b)(4) | No working days have been charged for two consecutive weeks. |
| Completion Date | Article 108.08(b)(1) or Article 108.08(b)(7) | The Contractor has been granted a minimum two week extension of contract time, according to Article 108.08. |

Payment for each of the various costs will be according to the following.

- (a) Escalated Material and/or Labor Costs. When the delay causes work, which would have otherwise been completed, to be done after material and/or labor costs have increased, such increases will be paid. Payment for escalated material costs will be limited to the increased costs substantiated by documentation furnished by the Contractor. Payment for escalated labor costs will be limited to those items in Article 109.04(b)(1) and (2), except the 35 percent and 10 percent additives will not be permitted.
- (b) Extended Project Overhead. For the duration of the delay, payment for extended project overhead will be paid as follows.
 - (1) Direct Jobsite and Offsite Overhead. Payment for documented direct jobsite overhead and documented direct offsite overhead, including onsite supervisory and administrative personnel, will be allowed according to the following table.

| Original Contract Amount | Supervisory and Administrative Personnel |
|--|--|
| Up to \$5,000,000 | One Project Superintendent |
| Over \$ 5,000,000 - up to \$25,000,000 | One Project Manager, One Project Superintendent or Engineer, and One Clerk |
| Over \$25,000,000 - up to \$50,000,000 | One Project Manager, One Project Superintendent, One Engineer, and One Clerk |
| Over \$50,000,000 | One Project Manager, Two Project Superintendents, One Engineer, and One Clerk |

(2) Home Office and Unabsorbed Overhead. Payment for home office and unabsorbed overhead will be calculated as 8 percent of the total delay cost.

(c) Extended Traffic Control. Traffic control required for an extended period of time due to the delay will be paid for according to Article 109.04.

When an extended traffic control adjustment is paid under this provision, an adjusted unit price as provided for in Article 701.20(a) for increase or decrease in the value of work by more than ten percent will not be paid.

Upon payment for a contract delay under this provision, the Contractor shall assign subrogation rights to the Department for the Department's efforts of recovery from any other party for monies paid by the Department as a result of any claim under this provision. The Contractor shall fully cooperate with the Department in its efforts to recover from another party any money paid to the Contractor for delay damages under this provision."

CONSTRUCTION AIR QUALITY – DIESEL RETROFIT (BDE)

Effective: June 1, 2010

Revised: January 1, 2025

The reduction of emissions of particulate matter (PM) for off-road equipment shall be accomplished by installing retrofit emission control devices. The term "equipment" refers to diesel fuel powered devices rated at 50 hp and above, to be used on the jobsite in excess of seven calendar days over the course of the construction period on the jobsite (including rental equipment).

Contractor and subcontractor diesel powered off-road equipment assigned to the contract shall be retrofitted according to the table below.

| Horsepower Range | Model Year and Older |
|------------------|----------------------|
| 50-99 | 2003 |
| 100-299 | 2002 |
| 300-599 | 2000 |
| 600-749 | 2001 |
| 750 and up | 2005 |

The retrofit emission control devices shall achieve a minimum PM emission reduction of 50 percent and shall be:

- a) Included on the U.S. Environmental Protection Agency (USEPA) *Verified Retrofit Technology List* (<https://www.epa.gov/verified-diesel-tech/verified-technologies-list-clean-diesel>), or verified by the California Air Resources Board (CARB) (<http://www.arb.ca.gov/diesel/verdev/vt/cvt.htm>); or
- b) Retrofitted with a non-verified diesel retrofit emission control device if verified retrofit emission control devices are not available for equipment proposed to be used on the project, and if the Contractor has obtained a performance certification from the retrofit device manufacturer that the emission control device provides a minimum PM emission reduction of 50 percent.

Note: Large cranes (Crawler mounted cranes) which are responsible for critical lift operations are exempt from installing retrofit emission control devices if such devices adversely affect equipment operation.

Diesel powered off-road equipment with engine ratings of 50 hp and above, which are unable to be retrofitted with verified emission control devices or if performance certifications are not available which will achieve a minimum 50 percent PM reduction, may be granted a waiver by the Department if documentation is provided showing good faith efforts were made by the Contractor to retrofit the equipment.

Construction shall not proceed until the Contractor submits a certified list of the diesel powered off-road equipment that will be used, and as necessary, retrofitted with emission control devices. The list(s) shall include (1) the equipment number, type, make, Contractor/rental company name; and (2) the emission control devices make, model, USEPA or CARB verification number, or performance certification from the retrofit device manufacturer. Equipment reported as fitted with emissions control devices shall be made available to the Engineer for visual inspection of the device installation, prior to being used on the jobsite.

The Contractor shall submit an updated list of retrofitted off-road construction equipment as retrofitted equipment changes or comes on to the jobsite. The addition or deletion of any diesel powered equipment shall be included on the updated list.

If any diesel powered off-road equipment is found to be in non-compliance with any portion of this special provision, the Engineer will issue the Contractor a diesel retrofit deficiency deduction.

Any costs associated with retrofitting any diesel powered off-road equipment with emission control devices shall be considered as included in the contract unit prices bid for the various items of work involved and no additional compensation will be allowed. The Contractor's compliance with this notice and any associated regulations shall not be grounds for a claim.

Diesel Retrofit Deficiency Deduction

When the Engineer determines that a diesel retrofit deficiency exists, a daily monetary deduction will be imposed for each calendar day or fraction thereof the deficiency continues to exist. The calendar day(s) will begin when the time period for correction is exceeded and end with the Engineer's written acceptance of the correction. The daily monetary deduction will be \$1,000.00 for each deficiency identified.

The deficiency will be based on lack of diesel retrofit emissions control.

If a Contractor accumulates three diesel retrofit deficiency deductions for the same piece of equipment in a contract period, the Contractor will be shutdown until the deficiency is corrected. Such a shutdown will not be grounds for any extension of the contract time, waiver of penalties, or be grounds for any claim.

ILLINOIS WORKS APPRENTICESHIP INITIATIVE – STATE FUNDED CONTRACTS (BDE)

Effective: June 2, 2021

Revised: April 2, 2024

Illinois Works Jobs Program Act (30 ILCS 559/20-1 et seq.). For contracts having an awarded contract value of \$500,000 or more, the Contractor shall comply with the Illinois Works Apprenticeship Initiative (30 ILCS 559/20-20 to 20-25) and all applicable administrative rules. The goal of the Illinois Apprenticeship Works Initiative is that apprentices will perform either 10% of the total labor hours actually worked in each prevailing wage classification or 10% of the estimated labor hours in each prevailing wage classification, whichever is less. Of this goal, at least 50% of the labor hours of each prevailing wage classification performed by apprentices shall be performed by graduates of the Illinois Works Pre-Apprenticeship Program, the Illinois Climate Works Pre-Apprenticeship Program, or the Highway Construction Careers Training Program.

The Contractor may seek from the Department of Commerce and Economic Opportunity (DCEO) a waiver or reduction of this goal in certain circumstances pursuant to 30 ILCS 559/20-20(b). The Contractor shall ensure compliance during the term of the contract and will be required to report on and certify its compliance. An apprentice use plan, apprentice hours, and a compliance certification shall be submitted to the Engineer on forms provided by the Department and/or DCEO.

REMOVAL AND DISPOSAL OF REGULATED SUBSTANCES (BDE)

Effective: January 1, 2024

Revised: April 1, 2024

Revise the first paragraph of Article 669.04 of the Standard Specifications to read:

“669.04 Regulated Substances Monitoring. Regulated substances monitoring includes environmental observation and field screening during regulated substances management activities. The excavated soil and groundwater within the work areas shall be managed as either uncontaminated soil, hazardous waste, special waste, or non-special waste.

As part of the regulated substances monitoring, the monitoring personnel shall perform and document the applicable duties listed on form BDE 2732 “Regulated Substances Monitoring Daily Record (RSM DR)”.

Revise the first two sentences of the nineteenth paragraph of Article 669.05 of the Standard Specifications to read:

“The Contractor shall coordinate waste disposal approvals with the disposal facility and provide the specific analytical testing requirements of that facility. The Contractor shall make all arrangements for collection, transportation, and analysis of landfill acceptance testing.”

Revise the last paragraph of Article 669.05 of the Standard Specifications to read:

“The Contractor shall select a permitted landfill facility or CCDD/USFO facility meeting the requirements of 35 Ill. Admin. Code Parts 810-814 or Part 1100, respectively. The Department will review and approve or reject the facility proposed by the Contractor based upon information provided in BDE 2730. The Contractor shall verify whether the selected facility is compliant with those applicable standards as mandated by their permit and whether the facility is presently, has previously been, or has never been, on the United States Environmental Protection Agency (U.S. EPA) National Priorities List or the Resource Conservation and Recovery Act (RCRA) List of Violating Facilities. The use of a Contractor selected facility shall in no manner delay the construction schedule or alter the Contractor's responsibilities as set forth.”

Revise the first paragraph of Article 669.07 of the Standard Specifications to read:

“669.07 Temporary Staging. Soil classified according to Articles 669.05(a)(2), (b)(1), or (c) may be temporarily staged at the Contractor's option. All other soil classified according to Articles 669.05(a)(1), (a)(3), (a)(4), (a)(5), (a)(6), or (b)(2) shall be managed and disposed of without temporary staging to the greatest extent practicable. If circumstances beyond the Contractor's control require temporary staging of these latter materials, the Contractor shall request approval from the Engineer in writing.

Topsoil for re-use as final cover which has been field screened and found not to exhibit PID readings over daily background readings as documented on the BDE 2732, visual staining or odors, and is classified according to Articles 669.05(a)(2), (a)(3), (a)(4), (b)(1), or (c) may be temporarily staged at the Contractor's option.”

Add the following paragraph after the sixth paragraph of Article 669.11 of the Standard Specifications.

“The sampling and testing of effluent water derived from dewatering discharges for priority pollutants volatile organic compounds (VOCs), priority pollutants semi-volatile organic compounds (SVOCs), or priority pollutants metals, will be paid for at the contract unit price per each for VOCS GROUNDWATER ANALYSIS using EPA Method 8260B, SVOCs GROUNDWATER ANALYSIS using EPA Method 8270C, or RCRA METALS GROUNDWATER ANALYSIS using EPA Methods 6010B and 7471A. This price shall include transporting the sample from the job site to the laboratory.”

Revise the first sentence of the eight paragraph of Article 669.11 of the Standard Specifications to read:

“Payment for temporary staging of soil classified according to Articles 669.05(a)(1), (a)(3), (a)(4), (a)(5), (a)(6), or (b)(2) to be managed and disposed of, if required and approved by the Engineer, will be paid according to Article 109.04.”

SHORT TERM AND TEMPORARY PAVEMENT MARKINGS (BDE)

Effective: April 1, 2024

Revised: April 2, 2024

Revise Article 701.02(d) of the Standard Specifications to read:

“(d) Pavement Marking Tapes (Note 3) 1095.06”

Add the following Note to the end of Article 701.02 of the Standard Specifications:

“Note 3. White or yellow pavement marking tape that is to remain in place longer than 14 days shall be Type IV tape.”

Revise Article 703.02(c) of the Standard Specifications to read:

“(c) Pavement Marking Tapes (Note 1) 1095.06”

Add the following Note to the end of Article 703.02 of the Standard Specifications:

“Note 1. White or yellow pavement marking tape that is to remain in place longer than 14 days shall be Type IV tape.”

Revise Article 1095.06 of the Standard Specifications to read:

“1095.06 Pavement Marking Tapes. Type I white or yellow marking tape shall consist of glass spheres embedded into a binder on a foil backing that is precoated with a pressure sensitive adhesive. The spheres shall be of uniform gradation and distributed evenly over the surface of the tape.

Type IV tape shall consist of white or yellow tape with wet reflective media incorporated to provide immediate and continuing retroreflection in wet and dry conditions. The wet retroreflective media shall be bonded to a durable polyurethane surface. The patterned surface shall have approximately 40 ± 10 percent of the surface area raised and presenting a near vertical face to traffic from any direction. The channels between the raised areas shall be substantially free of exposed reflective elements or particles.

Blackout tape shall consist of a matte black, non-reflective, patterned surface that is precoated with a pressure sensitive adhesive.

- (a) Color. The white and yellow markings shall meet the following requirements for daylight reflectance and color, when tested, using a color spectrophotometer with 45 degrees circumferential/zero degree geometry, illuminant D65, and two degree observer angle. The color instrument shall measure the visible spectrum from 380 to 720 nm with a wavelength measurement interval and spectral bandpass of 10 nm.

| Color | Daylight Reflectance %Y |
|----------|-------------------------|
| White | 65 min. |
| Yellow * | 36 - 59 |

*Shall match Aerospace Material Specification Standard 595 33538 (Orange Yellow) and the chromaticity limits as follows.

| | | | | |
|---|-------|-------|-------|-------|
| x | 0.490 | 0.475 | 0.485 | 0.530 |
| y | 0.470 | 0.438 | 0.425 | 0.456 |

- (b) Retroreflectivity. The white and yellow markings shall be retroreflective. Reflective values measured in accordance with the photometric testing procedure of ASTM D 4061 shall not be less than those listed in the table below. The coefficient of retroreflected luminance, R_L , shall be expressed as average millicandelas/footcandle/sq ft (millicandelas/lux/sq m), measured on a 3.0 x 0.5 ft (900 mm x 150 mm) panel at 86 degree entrance angle.

| Coefficient of Retroreflected Luminance, R_L , Dry | | | | | |
|--|-------|--------|-------------------|-------|--------|
| Type I | | | Type IV | | |
| Observation Angle | White | Yellow | Observation Angle | White | Yellow |
| 0.2° | 2700 | 2400 | 0.2° | 1300 | 1200 |
| 0.5° | 2250 | 2000 | 0.5° | 1100 | 1000 |

Wet retroreflectance shall be measured for Type IV under wet conditions according to ASTM E 2177 and meet the following.

| Wet Retroreflectance, Initial R _L | |
|--|---------------------------|
| Color | R _L 1.05/88.76 |
| White | 300 |
| Yellow | 200 |

- (c) Skid Resistance. The surface of Type IV and blackout markings shall provide a minimum skid resistance of 45 BPN when tested according to ASTM E 303.
- (d) Application. The pavement marking tape shall have a precoated pressure sensitive adhesive and shall require no activation procedures. Test pieces of the tape shall be applied according to the manufacturer's instructions and tested according to ASTM D 1000, Method A, except that a stiff, short bristle roller brush and heavy hand pressure will be substituted for the weighted rubber roller in applying the test pieces to the metal test panel. Material tested as directed above shall show a minimum adhesion value of 750 g/in. (30 g/mm) width at the temperatures specified in ASTM D 1000. The adhesive shall be resistant to oils, acids, solvents, and water, and shall not leave objectionable stains or residue after removal. The material shall be flexible and conformable to the texture of the pavement.
- (e) Durability. Type IV and blackout tape shall be capable of performing for the duration of a normal construction season and shall then be capable of being removed intact or in large sections at pavement temperatures above 40 °F (4 °C) either manually or with a roll-up device without the use of sandblasting, solvents, or grinding. The Contractor shall provide a manufacturer's certification that the material meets the requirements for being removed after the following minimum traffic exposure based on transverse test decks with rolling traffic.
- (1) Time in place - 400 days
 - (2) ADT per lane - 9,000 (28 percent trucks)
 - (3) Axle hits - 10,000,000 minimum

Samples of the material applied to standard specimen plates will be measured for thickness and tested for durability in accordance with ASTM D 4060, using a CS-17 wheel and 1000-gram load, and shall meet the following criteria showing no significant change in color after being tested for the number of cycles indicated.

| Test | Type I | Type IV | Blackout |
|--------------------------------------|-----------|--|--|
| Minimum Initial Thickness, mils (mm) | 20 (0.51) | 65 (1.65) ^{1/} 20 (0.51) ^{2/} | 65 (1.65) ^{1/} 20 (0.51) ^{2/} |
| Durability (cycles) | 5,000 | 1,500 | 1,500 |

1/ Measured at the thickest point of the patterned surface.

2/ Measured at the thinnest point of the patterned surface.

The pavement marking tape, when applied according to the manufacturer's recommended procedures, shall be weather resistant and shall show no appreciable fading, lifting, or shrinkage during the useful life of the marking. The tape, as applied, shall be of good appearance, free of cracks, and edges shall be true, straight, and unbroken.

(f) Sampling and Inspection.

- (1) Sample. Prior to approval and use of Type IV pavement marking tape, the manufacturer shall submit a notarized certification from an independent laboratory, together with the results of all tests, stating that the material meets the requirements as set forth herein. The independent laboratory test report shall state the lot tested, the manufacturer's name, and the date of manufacture.

After initial approval by the Department, samples and certification by the manufacturer shall be submitted for each subsequent batch of Type IV tape used. The manufacturer shall submit a certification stating that the material meets the requirements as set forth herein and is essentially identical to the material sent for qualification. The certification shall state the lot tested, the manufacturer's name, and the date of manufacture.

- (2) Inspection. The Contractor shall provide a manufacturer's certification to the Engineer stating the material meets all requirements of this specification. All material samples for acceptance tests shall be taken or witnessed by a representative of the Bureau of Materials and shall be submitted to the Engineer of Materials, 126 East Ash Street, Springfield, Illinois 62704-4766 at least 30 days in advance of the pavement marking operations."

SEEDING (BDE)

Effective: November 1, 2022

Revise Article 250.07 of the Standard Specifications to read:

"250.07 Seeding Mixtures. The classes of seeding mixtures and combinations of mixtures will be designated in the plans.

When an area is to be seeded with two or more seeding classes, those mixtures shall be applied separately on the designated area within a seven day period. Seeding shall occur prior to placement of mulch cover. A Class 7 mixture can be applied at any time prior to applying any seeding class or added to them and applied at the same time.

| TABLE 1 - SEEDING MIXTURES | | | |
|--|---|----------------------|-------|
| Class - Type | Seeds | lb/acre (kg/hectare) | |
| 1 Lawn Mixture 1/ | Kentucky Bluegrass | 100 | (110) |
| | Perennial Ryegrass | 60 | (70) |
| | <i>Festuca rubra</i> ssp. <i>rubra</i> (Creeping Red Fescue) | 40 | (50) |
| 1A Salt Tolerant Lawn Mixture 1/ | Kentucky Bluegrass | 60 | (70) |
| | Perennial Ryegrass | 20 | (20) |
| | <i>Festuca rubra</i> ssp. <i>rubra</i> (Creeping Red Fescue) | 20 | (20) |
| | <i>Festuca brevipilla</i> (Hard Fescue) | 20 | (20) |
| | <i>Puccinellia distans</i> (Fults Saltgrass or Salty Alkaligrass) | 60 | (70) |
| 1B Low Maintenance Lawn Mixture 1/ | Turf-Type Fine Fescue 3/ | 150 | (170) |
| | Perennial Ryegrass | 20 | (20) |
| | Red Top | 10 | (10) |
| | <i>Festuca rubra</i> ssp. <i>rubra</i> (Creeping Red Fescue) | 20 | (20) |
| 2 Roadside Mixture 1/ | <i>Lolium arundinaceum</i> (Tall Fescue) | 100 | (110) |
| | Perennial Ryegrass | 50 | (55) |
| | <i>Festuca rubra</i> ssp. <i>rubra</i> (Creeping Red Fescue) | 40 | (50) |
| | Red Top | 10 | (10) |
| 2A Salt Tolerant Roadside Mixture 1/ | <i>Lolium arundinaceum</i> (Tall Fescue) | 60 | (70) |
| | Perennial Ryegrass | 20 | (20) |
| | <i>Festuca rubra</i> ssp. <i>rubra</i> (Creeping Red Fescue) | 30 | (20) |
| | <i>Festuca brevipilla</i> (Hard Fescue) | 30 | (20) |
| | <i>Puccinellia distans</i> (Fults Saltgrass or Salty Alkaligrass) | 60 | (70) |
| 3 Northern Illinois Slope Mixture 1/ | <i>Elymus canadensis</i> (Canada Wild Rye) 5/ | 5 | (5) |
| | Perennial Ryegrass | 20 | (20) |
| | Alsike Clover 4/ | 5 | (5) |
| | <i>Desmanthus illinoensis</i> (Illinois Bundleflower) 4/ 5/ | 2 | (2) |
| | <i>Schizachyrium scoparium</i> (Little Bluestem) 5/ | 12 | (12) |
| | <i>Bouteloua curtipendula</i> (Side-Oats Grama) 5/ | 10 | (10) |
| | <i>Puccinellia distans</i> (Fults Saltgrass or Salty Alkaligrass) | 30 | (35) |
| | Oats, Spring | 50 | (55) |
| | Slender Wheat Grass 5/ | 15 | (15) |
| | Buffalo Grass 5/ 7/ | 5 | (5) |
| 3A Southern Illinois Slope Mixture 1/ | Perennial Ryegrass | 20 | (20) |
| | <i>Elymus canadensis</i> (Canada Wild Rye) 5/ | 20 | (20) |
| | <i>Panicum virgatum</i> (Switchgrass) 5/ | 10 | (10) |
| | <i>Schizachyrium scoparium</i> (Little Blue Stem) 5/ | 12 | (12) |
| | <i>Bouteloua curtipendula</i> (Side-Oats Grama) 5/ | 10 | (10) |
| | <i>Dalea candida</i> (White Prairie Clover) 4/ 5/ | 5 | (5) |
| | <i>Rudbeckia hirta</i> (Black-Eyed Susan) 5/ | 5 | (5) |
| | Oats, Spring | 50 | (55) |

| Class – Type | Seeds | lb/acre (kg/hectare) |
|---|--|----------------------|
| 4 Native Grass 2/ 6/ | <i>Andropogon gerardi</i> | 4 (4) |
| | (Big Blue Stem) 5/ | |
| | <i>Schizachyrium scoparium</i> | 5 (5) |
| | (Little Blue Stem) 5/ | |
| | <i>Bouteloua curtipendula</i> | 5 (5) |
| | (Side-Oats Grama) 5/ | |
| | <i>Elymus canadensis</i> | 1 (1) |
| | (Canada Wild Rye) 5/ | |
| | <i>Panicum virgatum</i> (Switch Grass) 5/ | 1 (1) |
| | <i>Sorghastrum nutans</i> (Indian Grass) 5/ | 2 (2) |
| 4A Low Profile Native Grass 2/ 6/ | Annual Ryegrass | 25 (25) |
| | Oats, Spring | 25 (25) |
| | Perennial Ryegrass | 15 (15) |
| | <i>Schizachyrium scoparium</i> | 5 (5) |
| | (Little Blue Stem) 5/ | |
| | <i>Bouteloua curtipendula</i> | 5 (5) |
| | (Side-Oats Grama) 5/ | |
| | <i>Elymus canadensis</i> | 1 (1) |
| | (Canada Wild Rye) 5/ | |
| | <i>Sporobolus heterolepis</i> | 0.5 (0.5) |
| 4B Wetland Grass and Sedge Mixture 2/ 6/ | (Prairie Dropseed) 5/ | |
| | Annual Ryegrass | 25 (25) |
| | Oats, Spring | 25 (25) |
| | Perennial Ryegrass | 15 (15) |
| | Annual Ryegrass | 25 (25) |
| | Oats, Spring | 25 (25) |
| | Wetland Grasses (species below) 5/ | 6 (6) |
| | <u>Species:</u> | <u>% By Weight</u> |
| | <i>Calamagrostis canadensis</i> (Blue Joint Grass) | 12 |
| | <i>Carex lacustris</i> (Lake-Bank Sedge) | 6 |
| | <i>Carex slipata</i> (Awl-Fruited Sedge) | 6 |
| | <i>Carex stricta</i> (Tussock Sedge) | 6 |
| | <i>Carex vulpinoidea</i> (Fox Sedge) | 6 |
| | <i>Eleocharis acicularis</i> (Needle Spike Rush) | 3 |
| | <i>Eleocharis obtusa</i> (Blunt Spike Rush) | 3 |
| | <i>Glyceria striata</i> (Fowl Manna Grass) | 14 |
| | <i>Juncus effusus</i> (Common Rush) | 6 |
| | <i>Juncus tenuis</i> (Slender Rush) | 6 |
| | <i>Juncus torreyi</i> (Torrey's Rush) | 6 |
| | <i>Leersia oryzoides</i> (Rice Cut Grass) | 10 |
| | <i>Scirpus acutus</i> (Hard-Stemmed Bulrush) | 3 |
| | <i>Scirpus atrovirens</i> (Dark Green Rush) | 3 |
| | <i>Bolboschoenus fluviatilis</i> (River Bulrush) | 3 |
| | <i>Schoenoplectus tabernaemontani</i> (Softstem Bulrush) | 3 |
| | <i>Spartina pectinata</i> (Cord Grass) | 4 |

| Class – Type | Seeds | lb/acre (kg/hectare) |
|--|---------------------------------------|----------------------|
| 5 | Forb with Annuals Mixture 2/ 5/ 6/ | 1 (1) 10 (10) |
| Annuals Mixture - Mixture not exceeding 25 % by weight of any one species, of the following: | | |
| <i>Coreopsis lanceolata</i> (Sand Coreopsis) <i>Leucanthemum maximum</i> (Shasta Daisy) <i>Gaillardia pulchella</i> (Blanket Flower) <i>Ratibida columnifera</i> (Prairie Coneflower) <i>Rudbeckia hirta</i> (Black-Eyed Susan) | | |
| Forb Mixture - Mixture not exceeding 5 % by weight PLS of any one species, of the following: | | |
| <i>Amorpha canescens</i> (Lead Plant) 4/ <i>Anemone cylindrica</i> (Thimble Weed) <i>Asclepias tuberosa</i> (Butterfly Weed) <i>Aster azureus</i> (Sky Blue Aster) <i>Symphyotrichum leave</i> (Smooth Aster) <i>Aster novae-angliae</i> (New England Aster) <i>Baptisia leucantha</i> (White Wild Indigo) 4/ <i>Coreopsis palmata</i> (Prairie Coreopsis) <i>Echinacea pallida</i> (Pale Purple Coneflower) <i>Eryngium yuccifolium</i> (Rattlesnake Master) <i>Helianthus mollis</i> (Downy Sunflower) <i>Heliopsis helianthoides</i> (Ox-Eye) <i>Liatris aspera</i> (Rough Blazing Star) <i>Liatris pycnostachya</i> (Prairie Blazing Star) <i>Monarda fistulosa</i> (Prairie Bergamot) <i>Parthenium integrifolium</i> (Wild Quinine) <i>Dalea candida</i> (White Prairie Clover) 4/ <i>Dalea purpurea</i> (Purple Prairie Clover) 4/ <i>Physostegia virginiana</i> (False Dragonhead) <i>Potentilla arguta</i> (Prairie Cinquefoil) <i>Ratibida pinnata</i> (Yellow Coneflower) <i>Rudbeckia subtomentosa</i> (Fragrant Coneflower) <i>Silphium laciniatum</i> (Compass Plant) <i>Silphium terebinthinaceum</i> (Prairie Dock) <i>Oligoneuron rigidum</i> (Rigid Goldenrod) <i>Tradescantia ohiensis</i> (Spiderwort) <i>Veronicastrum virginicum</i> (Culver's Root) | | |

| Class – Type | Seeds | lb/acre (kg/hectare) |
|---|--|--|
| 5A Large Flower Native Forb Mixture 2/ 5/ 6/ | Forb Mixture (see below) | 5 (5) |
| <u>Species:</u> <i>Aster novae-angliae</i> (New England Aster) <i>Echinacea pallida</i> (Pale Purple Coneflower) <i>Helianthus mollis</i> (Downy Sunflower) <i>Heliopsis helianthoides</i> (Ox-Eye) <i>Liatris pycnostachya</i> (Prairie Blazing Star) <i>Ratibida pinnata</i> (Yellow Coneflower) <i>Rudbeckia hirta</i> (Black-Eyed Susan) <i>Silphium laciniatum</i> (Compass Plant) <i>Silphium terebinthinaceum</i> (Prairie Dock) <i>Oligoneuron rigidum</i> (Rigid Goldenrod) | | <u>% By Weight</u> 5 10 10 10 10 5 10 10 20 10 |
| 5B Wetland Forb 2/ 5/ 6/ | Forb Mixture (see below) | 2 (2) |
| <u>Species:</u> <i>Acorus calamus</i> (Sweet Flag) <i>Angelica atropurpurea</i> (Angelica) <i>Asclepias incarnata</i> (Swamp Milkweed) <i>Aster puniceus</i> (Purple Stemmed Aster) <i>Bidens cernua</i> (Beggarticks) <i>Eutrochium maculatum</i> (Spotted Joe Pye Weed) <i>Eupatorium perfoliatum</i> (Boneset) <i>Helenium autumnale</i> (Autumn Sneezeweed) <i>Iris virginica shrevei</i> (Blue Flag Iris) <i>Lobelia cardinalis</i> (Cardinal Flower) <i>Lobelia siphilitica</i> (Great Blue Lobelia) <i>Lythrum alatum</i> (Winged Loosestrife) <i>Physostegia virginiana</i> (False Dragonhead) <i>Persicaria pensylvanica</i> (Pennsylvania Smartweed) <i>Persicaria lapathifolia</i> (Curlytop Knotweed) <i>Pychanthemum virginianum</i> (Mountain Mint) <i>Rudbeckia laciniata</i> (Cut-leaf Coneflower) <i>Oligoneuron riddellii</i> (Riddell Goldenrod) <i>Sparganium eurycarpum</i> (Giant Burreed) | | <u>% By Weight</u> 3 6 2 10 7 7 7 2 2 5 5 2 5 10 10 5 5 2 5 |
| 6 Conservation Mixture 2/ 6/ | <i>Schizachyrium scoparium</i> (Little Blue Stem) 5/ <i>Elymus canadensis</i> (Canada Wild Rye) 5/ Buffalo Grass 5/ 7/ Vernal Alfalfa 4/ Oats, Spring | 5 (5) 2 (2) 5 (5) 15 (15) 48 (55) |
| 6A Salt Tolerant Conservation Mixture 2/ 6/ | <i>Schizachyrium scoparium</i> (Little Blue Stem) 5/ <i>Elymus canadensis</i> (Canada Wild Rye) 5/ Buffalo Grass 5/ 7/ Vernal Alfalfa 4/ Oats, Spring <i>Puccinellia distans</i> (Fults Saltgrass or Salty Alkaligrass) | 5 (5) 2 (2) 5 (5) 15 (15) 48 (55) 20 (20) |
| 7 Temporary Turf Cover Mixture | Perennial Ryegrass Oats, Spring | 50 (55) 64 (70) |

Notes:

- 1/ Seeding shall be performed when the ambient temperature has been between 45 °F (7 °C) and 80 °F (27 °C) for a minimum of seven (7) consecutive days and is forecasted to be the same for the next five (5) days according to the National Weather Service.
- 2/ Seeding shall be performed in late fall through spring beginning when the ambient temperature has been below 45 °F (7 °C) for a minimum of seven (7) consecutive days and ending when the ambient temperature exceeds 80 °F (27 °C) according to the National Weather Service.
- 3/ Specific variety as shown in the plans or approved by the Engineer.
- 4/ Inoculation required.
- 5/ Pure Live Seed (PLS) shall be used.
- 6/ Fertilizer shall not be used.
- 7/ Seed shall be primed with KNO₃ to break dormancy and dyed to indicate such.

Seeding will be inspected after a period of establishment. The period of establishment shall be six (6) months minimum, but not to exceed nine (9) months. After the period of establishment, areas not exhibiting 75 percent uniform growth shall be interseeded or reseeded, as determined by the Engineer, at no additional cost to the Department."

STEEL COST ADJUSTMENT (BDE)

Effective: April 2, 2004

Revised: November 1, 2025

Description. Steel cost adjustments will be made to provide additional compensation to the Contractor, or a credit to the Department, for fluctuations in steel prices when optioned by the Contractor. The bidder shall indicate with their bid whether or not this special provision will be part of the contract. Failure to indicate "Yes" for any item of work will make that item of steel exempt from steel cost adjustment.

Types of Steel Products. An adjustment will be made for fluctuations in the cost of steel used in the manufacture of the following items:

Metal Piling (excluding temporary sheet piling)
Structural Steel
Reinforcing Steel

Other steel materials such as dowel bars, tie bars, welded reinforcement, guardrail, steel traffic signal and light poles, towers and mast arms, metal railings (excluding wire fence), and frames and grates will be subject to a steel cost adjustment when the pay items they are used in have a contract value of \$10,000 or greater.

The adjustments shall apply to the above items when they are part of the original proposed construction, or added as extra work and paid for by agreed unit prices. The adjustments shall not apply when the item is added as extra work and paid for at a lump sum price or by force account.

Documentation. The following documentation shall be furnished to the Engineer.

- (a) The dates and quantity of steel, in lb (kg), shipped from the mill to the fabricator.
- (b) The quantity of steel, in lb (kg), incorporated into the various items of work covered by this special provision. The Department reserves the right to verify submitted quantities.

Method of Adjustment. Steel cost adjustments will be computed as follows:

$$SCA = Q \times D$$

Where: SCA = steel cost adjustment, in dollars
Q = quantity of steel incorporated into the work, in lb (kg)
D = price factor, in dollars per lb (kg)

$$D = MPI_M - MPI_L$$

Where: MPI_M = The Materials Cost Index for steel as published by the Engineering News-Record for the month the steel is shipped from the mill. The indices will be converted from dollars per 100 lb to dollars per lb (kg).

MPI_L = The Materials Cost Index for steel as published by the Engineering News-Record for the month prior to the letting for work paid for at the contract price; or for the month the agreed unit price letter is submitted by the Contractor for extra work paid for by agreed unit price. The indices will be converted from dollars per 100 lb to dollars per lb (kg).

The unit weights (masses) of steel that will be used to calculate the steel cost adjustment for the various items will be derived from submitted documentation.

No steel cost adjustment will be made for any products manufactured from steel having a mill shipping date prior to the letting date.

If the Contractor fails to provide the required documentation, the method of adjustment will be calculated as described above; however, the MPI_M will be based on the date the steel arrives at the job site. In this case, an adjustment will only be made when there is a decrease in steel costs.

Basis of Payment. Steel cost adjustments may be positive or negative but will only be made when there is a difference between the MPI_L and MPI_M in excess of five percent, as calculated by:

$$\text{Percent Difference} = \{(MPI_L - MPI_M) \div MPI_L\} \times 100$$

Steel cost adjustments will be calculated by the Engineer and will be paid or deducted when all other contract requirements for the items of work are satisfied. Adjustments will only be made for fluctuations in the cost of the steel as described herein. No adjustment will be made for changes in the cost of manufacturing, fabrication, shipping, storage, etc.

The adjustments shall not apply during contract time subject to liquidated damages for completion of the entire contract.

SUBCONTRACTOR AND DBE PAYMENT REPORTING (BDE)

Effective: April 2, 2018

Add the following to Section 109 of the Standard Specifications.

“109.14 Subcontractor and Disadvantaged Business Enterprise Payment Reporting.

The Contractor shall report all payments made to the following parties:

- (a) first tier subcontractors;
- (b) lower tier subcontractors affecting disadvantaged business enterprise (DBE) goal credit;
- (c) material suppliers or trucking firms that are part of the Contractor's submitted DBE utilization plan.

The report shall be made through the Department's on-line subcontractor payment reporting system within 21 days of making the payment.”

SUBCONTRACTOR MOBILIZATION PAYMENTS (BDE)

Effective: November 2, 2017

Revised: April 1, 2019

Replace the second paragraph of Article 109.12 of the Standard Specifications with the following:

“This mobilization payment shall be made at least seven days prior to the subcontractor starting work. The amount paid shall be at the following percentage of the amount of the subcontract reported on form BC 260A submitted for the approval of the subcontractor's work.

| Value of Subcontract Reported on Form BC 260A | Mobilization Percentage |
|---|-------------------------|
| Less than \$10,000 | 25% |
| \$10,000 to less than \$20,000 | 20% |
| \$20,000 to less than \$40,000 | 18% |
| \$40,000 to less than \$60,000 | 16% |
| \$60,000 to less than \$80,000 | 14% |
| \$80,000 to less than \$100,000 | 12% |
| \$100,000 to less than \$250,000 | 10% |
| \$250,000 to less than \$500,000 | 9% |
| \$500,000 to \$750,000 | 8% |
| Over \$750,000 | 7%” |

SUBMISSION OF BIDDERS LIST INFORMATION (BDE)

Effective: January 2, 2025

Revised: March 2, 2025

In accordance with 49 CFR 26.11(c) all DBE and non-DBEs who bid as prime contractors and subcontractors shall provide bidders list information, including all DBE and non-DBE firms from whom the bidder has received a quote or bid to work as a subcontractor, whether or not the bidder has relied upon that bid in placing its bid as the prime contractor.

The bidders list information shall be submitted with the bid using the link provided within the "Integrated Contractor Exchange (iCX)" application of the Department's "EBids System".

SUBMISSION OF PAYROLL RECORDS (BDE)

Effective: April 1, 2021

Revised: November 2, 2023

FEDERAL AID CONTRACTS. Revise the following section of Check Sheet #1 of the Recurring Special Provisions to read:

"STATEMENTS AND PAYROLLS

The payroll records shall include the worker's name, social security number, last known address, telephone number, email address, classification(s) of work actually performed, hourly rates of wages paid (including rates of contributions or costs anticipated for bona fide fringe benefits or cash equivalents thereof), daily and weekly number of hours actually worked in total, deductions made, and actual wages paid.

The Contractor and each subcontractor shall submit certified payroll records to the Department each week from the start to the completion of their respective work, except that full social security numbers, last known addresses, telephone numbers, and email addresses shall not be included on weekly submittals. Instead, the payrolls need only include an identification number for each employee (e.g., the last four digits of the employee's social security number). The submittals shall be made using LCPTracker Pro software. The software is web-based and can be accessed at <https://lcptracker.com/>. When there has been no activity during a work week, a payroll record shall still be submitted with the appropriate option ("No Work", "Suspended", or "Complete") selected."

STATE CONTRACTS. Revise Item 3 of Section IV of Check Sheet #5 of the Recurring Special Provisions to read:

- “3. Submission of Payroll Records. The Contractor and each subcontractor shall, no later than the 15th day of each calendar month, file a certified payroll for the immediately preceding month to the Illinois Department of Labor (IDOL) through the Illinois Prevailing Wage Portal in compliance with the State Prevailing Wage Act (820 ILCS 130). The portal can be found on the IDOL website at <https://www2.illinois.gov/idol/Laws-Rules/CONMED/Pages/Prevailing-Wage-Portal.aspx>. Payrolls shall be submitted in the format prescribed by the IDOL.

In addition to filing certified payroll(s) with the IDOL, the Contractor and each subcontractor shall certify and submit payroll records to the Department each week from the start to the completion of their respective work, except that full social security numbers shall not be included on weekly submittals. Instead, the payrolls shall include an identification number for each employee (e.g., the last four digits of the employee's social security number). In addition, starting and ending times of work each day may be omitted from the payroll records submitted. The submittals shall be made using LCPTracker Pro software. The software is web-based and can be accessed at <https://lcptracker.com/>. When there has been no activity during a work week, a payroll record shall still be submitted with the appropriate option (“No Work”, “Suspended”, or “Complete”) selected.”

SURVEYING SERVICES (BDE)

Effective: April 1, 2025

Delete the fourth paragraph of Article 667.04 of the Standard Specifications.

Delete Section 668 of the Standard Specifications.

VEHICLE AND EQUIPMENT WARNING LIGHTS (BDE)

Effective: November 1, 2021

Revised: November 1, 2022

Add the following paragraph after the first paragraph of Article 701.08 of the Standard Specifications:

“The Contractor shall equip all vehicles and equipment with high-intensity oscillating, rotating, or flashing, amber or amber-and-white, warning lights which are visible from all directions. In accordance with 625 ILCS 5/12-215, the lights may only be in operation while the vehicle or equipment is engaged in construction operations.”

WORK ZONE TRAFFIC CONTROL DEVICES (BDE)

Effective: March 2, 2020

Revised: January 1, 2026

Add the following to Article 701.03 of the Standard Specifications:

“(q) Temporary Sign Supports 1106.02”

Revise Article 701.03(p) of the Standard Specifications to read:

“(p) Detectable Pedestrian Channelizing Barricades 1106.02(m)”

Revise the third paragraph of Article 701.14 of the Standard Specifications to read:

“For temporary sign supports, the Contractor shall provide a FHWA eligibility letter for each device used on the contract. The letter shall provide information for the set-up and use of the device as well as a detailed drawing of the device. The signs shall be supported within 20 degrees of vertical. Weights used to stabilize signs shall be attached to the sign support per the manufacturer’s specifications.”

Revise the first paragraph of Article 701.15 of the Standard Specifications to read:

“ **701.15 Traffic Control Devices.** For devices that must meet crashworthiness standards, the Contractor shall provide a manufacturer’s self-certification or a FHWA eligibility letter for each Category 1 device and a FHWA eligibility letter for each Category 2 and Category 3 device used on the contract. The self-certification or letter shall provide information for the set-up and use of the device as well as a detailed drawing of the device.”

Revise the first six paragraphs of Article 1106.02 of the Standard Specifications to read:

“ **1106.02 Devices.** Work zone traffic control devices and combinations of devices shall meet crashworthiness standards for their respective categories. The categories are as follows.

Category 1 includes small, lightweight, channelizing and delineating devices that have been in common use for many years and are known to be crashworthy by crash testing of similar devices or years of demonstrable safe performance. These include cones, tubular markers, plastic drums, and delineators, with no attachments (e.g. lights). Category 1 devices shall be MASH compliant.

Category 2 includes devices that are not expected to produce significant vehicular velocity change but may otherwise be hazardous. These include vertical panels with lights, barricades, temporary sign supports, and Category 1 devices with attachments (e.g. drums with lights). Category 2 devices shall be MASH compliant.

Category 3 includes devices that are expected to cause significant velocity changes or other potentially harmful reactions to impacting vehicles. These include crash cushions (impact attenuators), truck mounted attenuators, and other devices not meeting the definitions of Category 1 or 2. Category 3 devices manufactured after December 31, 2019 shall be MASH compliant. Category 3 devices manufactured on or before December 31, 2019, and compliant with NCHRP 350, may be used on contracts let before December 31, 2029. Category 3 devices shall be crash tested for Test Level 3 or the test level specified.

Category 4 includes portable or trailer-mounted devices such as sign supports, speed feedback displays, arrow boards, changeable message signs, temporary traffic signals, and area lighting supports. It is preferable for Category 4 devices manufactured after December 31, 2019 to be MASH-16 compliant; however, there are currently no crash tested devices in this category, so it remains exempt from the NCHRP 350 or MASH compliance requirement.

For each type of device, when no more than one MASH compliant is available, an NCHRP 350 compliant device may be used, even if manufactured after December 31, 2019.”

Revise the first paragraph of Section 1106.02(a) of the Standard Specifications to read:

“(a) Lights. Lights shall meet the requirements of Chapter 13 of the “Equipment and Materials Standards of the Institute of Transportation Engineers,” 1998, Institute of Transportation Engineers, and shall be visible on a clear night from a distance of 3000 ft (900 m). Lights are classified as follows.”

Revise Articles 1106.02(g), 1106.02(k), 1106.02(l), and 1106.02(m) of the Standard Specifications to read:

“(g) Truck Mounted/Trailer Mounted Attenuators. The attenuator shall be approved for use at Test Level 3. Test Level 2 may be used for normal posted speeds less than or equal to 45 mph.

(k) Temporary Water Filled Barrier. The water filled barrier shall be a lightweight plastic shell designed to accept water ballast and be on the Department’s qualified product list.

Shop drawings shall be furnished by the manufacturer and shall indicate the deflection of the barrier as determined by acceptance testing; the configuration of the barrier in that test; and the vehicle weight, velocity, and angle of impact of the deflection test. The Engineer shall be provided one copy of the shop drawings.

(l) Movable Traffic Barrier. The movable traffic barrier shall be on the Department’s qualified product list.

Shop drawings shall be furnished by the manufacturer and shall indicate the deflection of the barrier as determined by acceptance testing; the configuration of the barrier in that test; and the vehicle weight, velocity, and angle of impact of the deflection test. The Engineer shall be provided one copy of the shop drawings. The barrier shall be capable of being moved on and off the roadway on a daily basis.

- (m) Detectable Pedestrian Channelizing Barricades. The top panel or handrail shall be continuous and there should be at least a 2 in. (50 mm) gap between the hand trailing edge and its support. When visible to vehicular traffic, the top rail shall have alternating white and orange retroreflective stripes sloping at 45 degrees. The bottom panel shall be continuous and have alternating white and orange retroreflective stripes sloping at 45 degrees. Barricade stripes shall be 6 in. (150 mm) in width. The predominant color for other barricade components shall be white, orange, or silver.”

REVISIONS TO THE ILLINOIS PREVAILING WAGE RATES

The Prevailing rates of wages are included in the Contract proposals which are subject to Check Sheet #5 of the Supplemental Specifications and Recurring Special Provisions. The rates have been ascertained and certified by the Illinois Department of Labor for the locality in which the work is to be performed and for each craft or type of work or mechanic needed to execute the work of the Contract. As required by Prevailing Wage Act (820 ILCS 130/0.01, et seq.) and Check Sheet #5 of the Contract, not less than the rates of wages ascertained by the Illinois Department of Labor and as revised during the performance of a Contract shall be paid to all laborers, workers and mechanics performing work under the Contract. Post the scale of wages in a prominent and easily accessible place at the site of work.

If the Illinois Department of Labor revises the prevailing rates of wages to be paid as listed in the specification of rates, the contractor shall post the revised rates of wages and shall pay not less than the revised rates of wages. Current wage rate information shall be obtained by visiting the Illinois Department of Labor web site at <http://www.state.il.us/agency/idol/> or by calling 312-793-2814. It is the responsibility of the contractor to review the rates applicable to the work of the contract at regular intervals in order to insure the timely payment of current rates. Provision of this information to the contractor by means of the Illinois Department of Labor web site satisfies the notification of revisions by the Department to the contractor pursuant to the Act, and the contractor agrees that no additional notice is required. The contractor shall notify each of its subcontractors of the revised rates of wages.