



| | | |
|------------------------|-------|----------|
| PROPOSAL SUBMITTED BY | | |
| J.A. Johnson Paving Co | | |
| Contractor's Name | | |
| 1025 E. Addison Court | | |
| Street | | P.O. Box |
| Arlington Heights | IL | 60005 |
| City | State | Zip Code |

STATE OF ILLINOIS

COUNTY Cook/Lake
Village of Buffalo Grove
 (Name of City, Village, Town or Road District)

FOR THE IMPROVEMENT OF
 STREET NAME OR ROUTE Various
 SECTION NO. 19-00000-01-GM
 TYPES OF FUNDS MFT

- SPECIFICATIONS (required) PLANS (required) CONTRACT BOND (when required)

For Municipal Projects
 Submitted/Approved/Passed

 Mayor President of Board of Trustees Municipal Official
 Date 3/18/19

Department of Transportation
 Concurrence in approval of award

 Regional Engineer
 Date

For County and Road District Projects
 Submitted/Approved

 Highway Commissioner

 Date
 Submitted/Approved

 County Engineer/Superintendent of Highways

 Date

County Cook/Lake
Local Public Agency V. of Buffalo Grove
Section Number 19-00000-01-GM
Route Various

1. THIS AGREEMENT, made and concluded the 18th day of March, 2019,
Month and Year

between the Village of Buffalo Grove
acting by and through its President and Board of Trustees known as the party of the first part, and
J.A. Johnson Paving Co his/their executors, administrators, successors or assigns,
known as the party of the second part.

2. Witnesseth: That for and in consideration of the payments and agreements mentioned in the Proposal hereto attached, to be made and performed by the party of the first part, and according to the terms expressed in the Bond referring to these presents, the party of the second part agrees with said party of the first part at his/their own proper cost and expense to do all the work, furnish all materials and all labor necessary to complete the work in accordance with the plans and specifications hereinafter described, and in full compliance with all of the terms of this agreement and the requirements of the Engineer under it.

3. And it is also understood and agreed that the LPA Formal Contract Proposal, Special Provisions, Affidavit of Illinois Business Office, Apprenticeship or Training Program Certification, and Contract Bond hereto attached, and the Plans for Section 19-00000-01-GM, in the Village of Buffalo Grove, approved by the Illinois Department of Transportation on _____ Date, are essential documents of this contract and are a part hereof.

4. IN WITNESS WHEREOF, The said parties have executed these presents on the date above mentioned.

Attest:
Gant M. Sussman Clerk
(Seal)

The Village of Buffalo Grove
By Bundy Sussman Party of the First Part
(If a Corporation)

Corporate Name J.A. JOHNSON PAVING CO
By Dale Coffey President Party of the Second Part
(If a Co-Partnership)

Attest:
Mrs. J. Sussman
Secretary

Partners doing Business under the firm name of

Party of the Second Part
(If an individual)

Party of the Second Part

IN TESTIMONY WHEREOF, the said PRINCIPAL and the said SURETY have caused this instrument to be signed by their respective officers this 13th day of March A.D. 2019

PRINCIPAL

J.A. Johnson Paving Company
(Company Name)

By: Dale A. Johnson
Dale A. Johnson (Signature & Title) President

Attest: Michael R. Tarpey
Michael R. Tarpey (Signature & Title) Secretary

(If PRINCIPAL is a joint venture of two or more contractors, the company names and authorized signature of each contractor must be affixed.)

STATE OF ILLINOIS
COUNTY OF COOK

I, PATRICIA A. VICERE

Notary Public in and for said county, do hereby certify that

Dale A. Johnson
Michael R. Tarpey

(Insert names of individuals signing on behalf or PRINCIPAL)

who are each personally known to me to be the same persons whose names are subscribed to the foregoing instrument on behalf of PRINCIPAL, appeared before me this day in person and acknowledged respectively, that they signed and delivered said instrument as their free and voluntary act for the uses and purposes therein set forth.

Given under my hand and notarial seal this 13th day of March A.D. 2019

My commission expires 4/20/21

[Signature]
Notary Public

(SEAL)



SURETY

Fidelity and Deposit Company of Maryland
(Name of Surety)

By: William Reidinger
William Reidinger (Signature of Attorney-in-Charge)



STATE OF Illinois
COUNTY OF Cook

I, Thomas Green

Notary Public in and for said county, do hereby certify that

William Reidinger

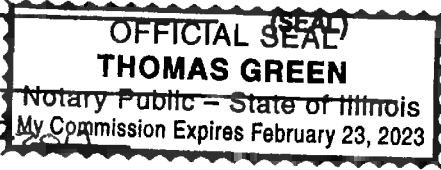
(Insert names of individuals signing on behalf or SURETY)

who are each personally known to me to be the same persons whose names are subscribed to the foregoing instrument on behalf of SURETY, appeared before me this day in person and acknowledged respectively, that they signed and delivered said instrument as their free and voluntary act for the uses and purposes therein set forth.

Given under my hand and notarial seal this 13th day of March A.D. 2019

My commission expires February 23, 2023

Thomas Green
Thomas Green Notary Public



Approved this 18th day of March A.D. 2019

Attest: Joan M. Scarbun

Village Clerk

Beverly Susman
(Awarding Authority)
Chairman/Mayor/President

Bond Number 9308164

Obligee VILLAGE OF BUFFALO GROVE

**ZURICH AMERICAN INSURANCE COMPANY
COLONIAL AMERICAN CASUALTY AND SURETY COMPANY
FIDELITY AND DEPOSIT COMPANY OF MARYLAND
POWER OF ATTORNEY**

KNOW ALL MEN BY THESE PRESENTS: That the ZURICH AMERICAN INSURANCE COMPANY, a corporation of the State of New York, the COLONIAL AMERICAN CASUALTY AND SURETY COMPANY, a corporation of the State of Illinois, and the FIDELITY AND DEPOSIT COMPANY OF MARYLAND a corporation of the State of Illinois (herein collectively called the "Companies"), by Robert D. Murray, Vice President, in pursuance of authority granted by Article V, Section 8, of the By-Laws of said Companies, which are set forth on the reverse side hereof and are hereby certified to be in full force and effect on the date hereof, do hereby nominate, constitute, and appoint William Reidinger, its true and lawful agent and Attorney-in-Fact, to make, execute, seal and deliver, for, and on its behalf as surety, and as its act and deed: any and all bonds and undertakings, and the execution of such bonds or undertakings in pursuance of these presents, shall be as binding upon said Companies, as fully and amply, to all intents and purposes, as if they had been duly executed and acknowledged by the regularly elected officers of the ZURICH AMERICAN INSURANCE COMPANY at its office in New York, New York., the regularly elected officers of the COLONIAL AMERICAN CASUALTY AND SURETY COMPANY at its office in Owings Mills, Maryland., and the regularly elected officers of the FIDELITY AND DEPOSIT COMPANY OF MARYLAND at its office in Owings Mills, Maryland., in their own proper persons.

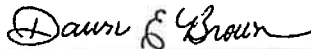
The said Vice President does hereby certify that the extract set forth on the reverse side hereof is a true copy of Article V, Section 8, of the By-Laws of said Companies, and is now in force.

IN WITNESS WHEREOF, the said Vice-President has hereunto subscribed his/her names and affixed the Corporate Seals of the said ZURICH AMERICAN INSURANCE COMPANY, COLONIAL AMERICAN CASUALTY AND SURETY COMPANY, and FIDELITY AND DEPOSIT COMPANY OF MARYLAND, this 24th day of January, A.D. 2019.

ATTEST:
ZURICH AMERICAN INSURANCE COMPANY
COLONIAL AMERICAN CASUALTY AND SURETY COMPANY
FIDELITY AND DEPOSIT COMPANY OF MARYLAND



By: Robert D. Murray
Vice President



By: Dawn E. Brown
Secretary

State of Maryland
County of Baltimore

On this 24th day of January, A.D. 2019, before the subscriber, a Notary Public of the State of Maryland, duly commissioned and qualified, Robert D. Murray, Vice President and Dawn E. Brown, Secretary of the Companies, to me personally known to be the individuals and officers described in and who executed the preceding instrument, and acknowledged the execution of same, and being by me duly sworn, depose and saith, that he/she is the said officer of the Company aforesaid, and that the seals affixed to the preceding instrument are the Corporate Seals of said Companies, and that the said Corporate Seals and the signature as such officer were duly affixed and subscribed to the said instrument by the authority and direction of the said Corporations.

IN TESTIMONY WHEREOF, I have hereunto set my hand and affixed my Official Seal the day and year first above written.



Constance A. Dunn
Constance A. Dunn, Notary Public
My Commission Expires: July 9, 2019

EXTRACT FROM BY-LAWS OF THE COMPANIES

"Article V, Section 8, Attorneys-in-Fact. The Chief Executive Officer, the President, or any Executive Vice President or Vice President may, by written instrument under the attested corporate seal, appoint attorneys-in-fact with authority to execute bonds, policies, recognizances, stipulations, undertakings, or other like instruments on behalf of the Company, and may authorize any officer or any such attorney-in-fact to affix the corporate seal thereto; and may with or without cause modify or revoke any such appointment or authority at any time."

CERTIFICATE

I, the undersigned, Vice President of the ZURICH AMERICAN INSURANCE COMPANY, the COLONIAL AMERICAN CASUALTY AND SURETY COMPANY, and the FIDELITY AND DEPOSIT COMPANY OF MARYLAND, do hereby certify that the foregoing Power of Attorney is still in full force and effect on the date of this certificate; and I do further certify that Article V, Section 8, of the By-Laws of the Companies is still in force.

This Power of Attorney and Certificate may be signed by facsimile under and by authority of the following resolution of the Board of Directors of the ZURICH AMERICAN INSURANCE COMPANY at a meeting duly called and held on the 15th day of December 1998.

RESOLVED: "That the signature of the President or a Vice President and the attesting signature of a Secretary or an Assistant Secretary and the Seal of the Company may be affixed by facsimile on any Power of Attorney...Any such Power or any certificate thereof bearing such facsimile signature and seal shall be valid and binding on the Company."

This Power of Attorney and Certificate may be signed by facsimile under and by authority of the following resolution of the Board of Directors of the COLONIAL AMERICAN CASUALTY AND SURETY COMPANY at a meeting duly called and held on the 5th day of May, 1994, and the following resolution of the Board of Directors of the FIDELITY AND DEPOSIT COMPANY OF MARYLAND at a meeting duly called and held on the 10th day of May, 1990.

RESOLVED: "That the facsimile or mechanically reproduced seal of the company and facsimile or mechanically reproduced signature of any Vice-President, Secretary, or Assistant Secretary of the Company, whether made heretofore or hereafter, wherever appearing upon a certified copy of any power of attorney issued by the Company, shall be valid and binding upon the Company with the same force and effect as though manually affixed.

IN TESTIMONY WHEREOF, I have hereunto subscribed my name and affixed the corporate seals of the said Companies, this 13th day of March, 2019 .



Michael C. Fay, Vice President

TO REPORT A CLAIM WITH REGARD TO A SURETY BOND, PLEASE SUBMIT A COMPLETE DESCRIPTION OF THE CLAIM INCLUDING THE PRINCIPAL ON THE BOND, THE BOND NUMBER, AND YOUR CONTACT INFORMATION TO:

Zurich Surety Claims
1299 Zurich Way
Schaumburg, IL 60196-1056
www.reportsfclaims@zurichna.com
800-626-4577



Local Public Agency
Formal Contract Proposal

| | | |
|-----------------------------|----------|----------|
| PROPOSAL SUBMITTED BY | | |
| J.A. Johnson Paving Co | | |
| Contractor's Name | | |
| 1025 E. Addison Court | | |
| Street | P.O. Box | |
| Arlington Heights, IL 60005 | | |
| City | State | Zip Code |

STATE OF ILLINOIS

COUNTY OF Cook/Lake
Village of Buffalo Grove
 (Name of City, Village, Town or Road District)

FOR THE IMPROVEMENT OF

STREET NAME OR ROUTE NO. Various
 SECTION NO. 19-00000-01-GM
 TYPES OF FUNDS MFT

SPECIFICATIONS (required)

PLANS (required)

For Municipal Projects
 Submitted/Approved/Passed

Mayor President of Board of Trustees Municipal Official

Date

Department of Transportation

Released for bid based on limited review

Regional Engineer

Date

For County and Road District Projects
 Submitted/Approved

Highway Commissioner

Date

Submitted/Approved

County Engineer/Superintendent of Highways

Date

Note: All proposal documents, including Proposal Guaranty Checks or Proposal Bid Bonds, should be stapled together to prevent loss when bids are processed.

RETURN WITH BID

VoBG-2019-08

NOTICE TO BIDDERS

County Cook/Lake
Local Public Agency V. of Buffalo Grove
Section Number 19-00000-01-GM
Route Various

Sealed proposals for the improvement described below will be received at the office of Village of Buffalo Grove,
Attn: Village Clerk, 50 Raupp Boulevard, Buffalo Grove, Illinois 60089 until 9:30 AM on February 28, 2019

Sealed proposals will be opened and read publicly at the office of Village of Buffalo Grove
Council Chambers, 50 Raupp Boulevard, Buffalo Grove, Illinois 60089 at 9:30 AM on February 28, 2019

DESCRIPTION OF WORK

Name 2019 Pavement Patching Project Length: 0.00 feet (0.00 miles)
Location Various Locations Within the Village Limits
Proposed Improvement Hot-Mix Asphalt Surface Pavement Patching; and other associated improvements.

1. Plans and proposal forms will be available in the office of Gewalt Hamilton Associates, Inc.
http://www.gha-engineers.com/bidding-info (Download Fee: \$20)

2. [X] Prequalification
If checked, the 2 low bidders must file within 24 hours after the letting an "Affidavit of Availability" (Form BC 57), in duplicate, showing all uncompleted contracts awarded to them and all low bids pending award for Federal, State, County, Municipal and private work. One original shall be filed with the Awarding Authority and one original with the IDOT District Office.

3. The Awarding Authority reserves the right to waive technicalities and to reject any or all proposals as provided in BLRS Special Provision for Bidding Requirements and Conditions for Contract Proposals.

- 4. The following BLR Forms shall be returned by the bidder to the Awarding Authority:
a. BLR 12200: Local Public Agency Formal Contract Proposal
b. BLR 12200a Schedule of Prices
c. BLR 12230: Proposal Bid Bond (if applicable)
d. BLR 12325: Apprenticeship or Training Program Certification (do not use for federally funded projects)
e. BLR 12326: Affidavit of Illinois Business Office

5. The quantities appearing in the bid schedule are approximate and are prepared for the comparison of bids. Payment to the Contractor will be made only for the actual quantities of work performed and accepted or materials furnished according to the contract. The scheduled quantities of work to be done and materials to be furnished may be increased, decreased or omitted as hereinafter provided.

6. Submission of a bid shall be conclusive assurance and warranty the bidder has examined the plans and understands all requirements for the performance of work. The bidder will be responsible for all errors in the proposal resulting from failure or neglect to conduct an in depth examination. The Awarding Authority will, in no case be responsible for any costs, expenses, losses or changes in anticipated profits resulting from such failure or neglect of the bidder.

7. The bidder shall take no advantage of any error or omission in the proposal and advertised contract.

8. If a special envelope is supplied by the Awarding Authority, each proposal should be submitted in that envelope furnished by the Awarding Agency and the blank spaces on the envelope shall be filled in correctly to clearly indicate its contents. When an envelope other than the special one furnished by the Awarding Authority is used, it shall be marked to clearly indicate its contents. When sent by mail, the sealed proposal shall be addressed to the Awarding Authority at the address and in care of the official in whose office the bids are to be received. All proposals shall be filed prior to the time and at the place specified in the Notice to Bidders. Proposals received after the time specified will be returned to the bidder unopened.

9. Permission will be given to a bidder to withdraw a proposal if the bidder makes the request in writing or in person before the time for opening proposals.

RETURN WITH BID

VoBG-2019-08

10. All bidders are prohibited from making any contact with the Village President, Trustees, or any other official or employee of the Village (collectively, 'Municipal Personnel') with regard to the Project, other than in the manner and to the person(s) designated herein. The Buffalo Grove Village Manager reserves the right to disqualify any bidder that is found to have contacted Municipal Personnel in any manner with regard to the Project. Additionally, if the Buffalo Grove Village Manager determines that the contact with Municipal Personnel was in violation of any provision of 720 ILCS 5/33E, the matter will be turned over to the State's Attorney for review and prosecution.
11. All prime contractors shall be IDOT prequalified contractors with a value equal to or greater for the type of work they are to perform as part of the Contract. Furthermore, all bidders are required to register with the Village of Buffalo Grove at:
<https://vrapp.vendorregistry.com/Vendor/Register/Index/buffalo-grove-village-of-il-vendor-registration>

OR

www.vbg.org/bids

All communication during the bid process shall be directed to:

Gewalt Hamilton Associates, Inc.
Attn: Brian Wesolowski, PE
625 Forest Edge Drive
Vernon Hills, Illinois 60061
(847) 821-6235
12. bwesolowski@gha-engineers.com

PROPOSAL

County Cook/Lake
 Local Public Agency V. of Buffalo Grove
 Section Number 19-00000-01-GM
 Route Various

1. Proposal of J.A. Johnson Paving Co
1025 E. Addison Court, Arlington Heights, IL 60005
 for the improvement of the above section by the construction of Hot-Mix Asphalt Surface Pavement Patching;
and other associated improvements for

a total distance of 0.00 feet, of which a distance of 0.00 feet, (0.000 miles) are to be improved.

- 2. The plans for the proposed work are those prepared by Gewalt Hamilton Associates, Inc.
 and approved by the Department of Transportation on _____
- 3. The specifications referred to herein are those prepared by the Department of Transportation and designated as "Standard Specifications for Road and Bridge Construction" and the "Supplemental Specifications and Recurring Special Provisions" thereto, adopted and in effect on the date of invitation for bids.
- 4. The undersigned agrees to accept, as part of the contract, the applicable Special Provisions indicated on the "Check Sheet for Recurring Special Provisions" contained in this proposal.
- 5. The undersigned agrees to complete the work within _____ working days or by 05/24/2019 unless additional time is granted in accordance with the specifications.
- 6. A proposal guaranty in the proper amount, as specified in BLRS Special Provision for Bidding Requirements and Conditions for Contract Proposals, will be required. Bid Bonds will be allowed as a proposal guaranty. Accompanying this proposal is either a bid bond if allowed, on Department form BLR 12230 or a proposal guaranty check, complying with the specifications, made payable to:

Village _____ Treasurer of Buffalo Grove
 The amount of the check is Bid Bond (5% of Total Bid) (_____).

- 7. In the event that one proposal guaranty check is intended to cover two or more proposals, the amount must be equal to the sum of the proposal guaranties, which would be required for each individual proposal. If the proposal guaranty check is placed in another proposal, it will be found in the proposal for: Section Number _____.
- 8. The successful bidder at the time of execution of the contract will be required to deposit a contract bond for the full amount of the award. When a contract bond is not required, the proposal guaranty check will be held in lieu thereof. If this proposal is accepted and the undersigned fails to execute a contract and contract bond as required, it is hereby agreed that the Bid Bond or check shall be forfeited to the Awarding Authority.
- 9. Each pay item should have a unit price and a total price. If no total price is shown or if there is a discrepancy between the product of the unit price multiplied by the quantity, the unit price shall govern. If a unit price is omitted, the total price will be divided by the quantity in order to establish a unit price.
- 10. A bid will be declared unacceptable if neither a unit price nor a total price is shown.
- 11. The undersigned submits herewith the schedule of prices on BLR 12200a covering the work to be performed under this contract.
- 12. The undersigned further agrees that if awarded the contract for the sections contained in the combinations on BLR 12200a, the work shall be in accordance with the requirements of each individual proposal for the multiple bid specified in the Schedule for Multiple Bids below.

CONTRACTOR CERTIFICATIONS

| | |
|---------------------|----------------------------|
| County | <u>Cook/Lake</u> |
| Local Public Agency | <u>V. of Buffalo Grove</u> |
| Section Number | <u>19-00000-01-GM</u> |
| Route | <u>Various</u> |

The certifications hereinafter made by the bidder are each a material representation of fact upon which reliance is placed should the Department enter into the contract with the bidder.

1. **Debt Delinquency.** The bidder or contractor or subcontractor, respectively, certifies that it is not delinquent in the payment of any tax administered by the Department of Revenue unless the individual or other entity is contesting, in accordance with the procedures established by the appropriate revenue Act, its liability for the tax or the amount of tax. Making a false statement voids the contract and allows the Department to recover all amounts paid to the individual or entity under the contract in a civil action.

2. **Bid-Rigging or Bid Rotating.** The bidder or contractor or subcontractor, respectively, certifies that it is not barred from contracting with the Department by reason of a violation of either 720 ILCS 5/33E-3 or 720 ILCS 5/33E-4.

A violation of Section 33E-3 would be represented by a conviction of the crime of bid-rigging which, in addition to Class 3 felony sentencing, provides that any person convicted of this offense or any similar offense of any state or the United States which contains the same elements as this offense shall be barred for 5 years from the date of conviction from contracting with any unit of State or local government. No corporation shall be barred from contracting with any unit of State or local government as a result of a conviction under this Section of any employee or agent of such corporation if the employee so convicted is no longer employed by the corporation and: (1) it has been finally adjudicated not guilty or (2) if it demonstrates to the governmental entity with which it seeks to contract and that entity finds that the commission of the offense was neither authorized, requested, commanded, nor performed by a director, officer or a high managerial agent in behalf of the corporation.

A violation of Section 33E-4 would be represented by a conviction of the crime of bid-rotating which, in addition to Class 2 felony sentencing, provides that any person convicted of this offense or any similar offense of any state or the United States which contains the same elements as this offense shall be permanently barred from contracting with any unit of State or local government. No corporation shall be barred from contracting with any unit of State or local government as a result of a conviction under this Section of any employee or agent of such corporation if the employee so convicted is no longer employed by the corporation and: (1) it has been finally adjudicated not guilty or (2) if it demonstrates to the governmental entity with which it seeks to contract and that entity finds that the commission of the offense was neither authorized, requested, commanded, nor performed by a director, officer or a high managerial agent in behalf of the corporation.

3. **Bribery.** The bidder or contractor or subcontractor, respectively, certifies that it has not been convicted of bribery or attempting to bribe an officer or employee of the State of Illinois or any unit of local government, nor has the firm made an admission of guilt of such conduct which is a matter of record, nor has an official, agent, or employee of the firm committed bribery or attempted bribery on behalf of the firm and pursuant to the direction or authorization of a responsible official of the firm.
4. **Interim Suspension or Suspension.** The bidder or contractor or subcontractor, respectively, certifies that it is not currently under a suspension as defined in Subpart I of Title 44 Subtitle A Chapter III Part 6 of the Illinois Administrative Code. Furthermore, if suspended prior to completion of this work, the contract or contracts executed for the completion of this work may be cancelled.

RETURN WITH BID

VoBG-2019-08

SIGNATURES

County Cook/Lake
 Local Public Agency V. of Buffalo Grove
 Section Number 19-00000-01-GM
 Route Various

(If an individual)

Signature of Bidder _____

Business Address _____

(If a partnership)

Firm Name _____

Signed By _____

Business Address _____

Inset Names and Addressed of All Partners

} _____

(If a corporation)

Corporate Name J.A. Johnson Paving Co

Signed By *Dale A. Johnson*
President

Business Address 1025 E. Addison Court
Arlington Heights, IL 60005

Inset Names of Officers

} President Dale A. Johnson
 Secretary Michael R. Tarpey
 Treasurer Michael R. Tarpey

Attest:

Michael R. Tarpey
Secretary



Local Agency Proposal Bid Bond

Route VARIOUS
County COOK/LAKE
Local Agency VILLAGE OF BUFFALO GROVE
Section 19-00000-01-GM

RETURN WITH BID

PAPER BID BOND

WE J.A. Johnson Paving Company 1025 E. Addison Court, Arlington Heights, IL 60005 as PRINCIPAL, and Fidelity and Deposit Company of Maryland 1299 Zurich Way, 5th Floor, Schaumburg, IL 60196-1058 as SURETY,

are held jointly, severally and firmly bound unto the above Local Agency (hereafter referred to as "LA") in the penal sum of 5% of the total bid price, or for the amount specified in the proposal documents in effect on the date of invitation for bids whichever is the lesser sum. We bind ourselves, our heirs, executors, administrators, successors, and assigns, jointly pay to the LA this sum under the conditions of this instrument.

WHEREAS THE CONDITION OF THE FOREGOING OBLIGATION IS SUCH that, the said PRINCIPAL is submitting a written proposal to the LA acting through its awarding authority for the construction of the work designated as the above section.

THEREFORE if the proposal is accepted and a contract awarded to the PRINCIPAL by the LA for the above designated section and the PRINCIPAL shall within fifteen (15) days after award enter into a formal contract, furnish surety guaranteeing the faithful performance of the work, and furnish evidence of the required insurance coverage, all as provided in the "Standard Specifications for Road and Bridge Construction" and applicable Supplemental Specifications, then this obligation shall become void; otherwise it shall remain in full force and effect.

IN THE EVENT the LA determines the PRINCIPAL has failed to enter into a formal contract in compliance with any requirements set forth in the preceding paragraph, then the LA acting through its awarding authority shall immediately be entitled to recover the full penal sum set out above, together with all court costs, all attorney fees, and any other expense of recovery.

IN TESTIMONY WHEREOF, the said PRINCIPAL and the said SURETY have caused this instrument to be signed by their respective officers this 28th day of February, 2019

Principal

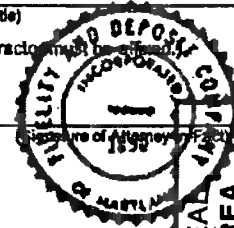
J.A. Johnson Paving Company (Company Name)
By: Dale A. Johnson President (Signature and Title)

(Company Name)
By: (Signature and Title)

(If PRINCIPLE is a joint venture of two or more contractors, the company names, and authorized signatures of each contractor must be provided.)

Fidelity and Deposit Company of Maryland (Name of Surety)

Surety
By: William Reidinger (Signature and Title)



STATE OF Illinois
COUNTY OF Cook

I, Daryl Correa, a Notary Public in and for said county, do hereby certify that Dale A. Johnson and William Reidinger (Insert names of individuals signing on behalf of PRINCIPAL & SURETY)

who are each personally known to me to be the same persons whose names are subscribed to the foregoing instrument on behalf of PRINCIPAL and SURETY, appeared before me this day in person and acknowledged respectively, that they signed and delivered said instruments as their free and voluntary act for the uses and purposes therein set forth.

Given under my hand and notarial seal this 28th day of February, 2019

My commission expires July 21, 2020

Daryl Correa (Notary Public)

OFFICIAL SEAL
DARYL CORREA
Notary Public - State of Illinois
My Commission Expires July 21, 2020

ELECTRONIC BID

Electronic bid bond is allowed (box must be checked by LA if electronic bid bond is allowed)

The Principal may submit an electronic bid bond, in lieu of completing the above section of the Proposal Bid Bond Form. By providing an electronic bid bond ID code and signing below, the Principal is ensuring the identified electronic bid bond has been executed and the Principal and Surety are firmly bound unto the LA under the conditions of the bid bond as shown above. (If PRINCIPAL is a joint venture of two or more contractors, an electronic bid bond ID code, company/Bidder name title and date must be affixed for each contractor in the venture.)

Electronic Bid Bond ID Code

(Company/Bidder Name)
(Signature and Title)
Date

Bans

Bond Number Bld Bond

Obligee VILLAGE OF BUFFALO GROVE

**ZURICH AMERICAN INSURANCE COMPANY
COLONIAL AMERICAN CASUALTY AND SURETY COMPANY
FIDELITY AND DEPOSIT COMPANY OF MARYLAND
POWER OF ATTORNEY**

KNOW ALL MEN BY THESE PRESENTS: That the ZURICH AMERICAN INSURANCE COMPANY, a corporation of the State of New York, the COLONIAL AMERICAN CASUALTY AND SURETY COMPANY, a corporation of the State of Illinois, and the FIDELITY AND DEPOSIT COMPANY OF MARYLAND a corporation of the State of Illinois (herein collectively called the "Companies"), by Robert D. Murray, Vice President, in pursuance of authority granted by Article V, Section 8, of the By-Laws of said Companies, which are set forth on the reverse side hereof and are hereby certified to be in full force and effect on the date hereof, do hereby nominate, constitute, and appoint William Reidinger, its true and lawful agent and Attorney-in-Fact, to make, execute, seal and deliver, for, and on its behalf as surety, and as its act and deed: **any and all bonds and undertakings**, and the execution of such bonds or undertakings in pursuance of these presents, shall be as binding upon said Companies, as fully and amply, to all intents and purposes, as if they had been duly executed and acknowledged by the regularly elected officers of the ZURICH AMERICAN INSURANCE COMPANY at its office in New York, New York., the regularly elected officers of the COLONIAL AMERICAN CASUALTY AND SURETY COMPANY at its office in Owings Mills, Maryland., and the regularly elected officers of the FIDELITY AND DEPOSIT COMPANY OF MARYLAND at its office in Owings Mills, Maryland., in their own proper persons.

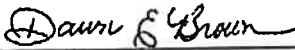
The said Vice President does hereby certify that the extract set forth on the reverse side hereof is a true copy of Article V, Section 8, of the By-Laws of said Companies, and is now in force.

IN WITNESS WHEREOF, the said Vice-President has hereunto subscribed his/her names and affixed the Corporate Seals of the said ZURICH AMERICAN INSURANCE COMPANY, COLONIAL AMERICAN CASUALTY AND SURETY COMPANY, and FIDELITY AND DEPOSIT COMPANY OF MARYLAND, this 24th day of January, A.D. 2019.

ATTEST:
ZURICH AMERICAN INSURANCE COMPANY
COLONIAL AMERICAN CASUALTY AND SURETY COMPANY
FIDELITY AND DEPOSIT COMPANY OF MARYLAND


By: Robert D. Murray
Vice President




By: Dawn E. Brown
Secretary

State of Maryland
County of Baltimore

On this 24th day of January, A.D. 2019, before the subscriber, a Notary Public of the State of Maryland, duly commissioned and qualified, Robert D. Murray, Vice President and Dawn E. Brown, Secretary of the Companies, to me personally known to be the individuals and officers described in and who executed the preceding instrument, and acknowledged the execution of same, and being by me duly sworn, depose and saith, that he/she is the said officer of the Company aforesaid, and that the seals affixed to the preceding instrument are the Corporate Seals of said Companies, and that the said Corporate Seals and the signature as such officer were duly affixed and subscribed to the said instrument by the authority and direction of the said Corporations.

IN TESTIMONY WHEREOF, I have hereunto set my hand and affixed my Official Seal the day and year first above written.



Constance A. Dunn
Constance A. Dunn, Notary Public
My Commission Expires: July 9, 2019

EXTRACT FROM BY-LAWS OF THE COMPANIES

"Article V, Section 8, Attorneys-in-Fact. The Chief Executive Officer, the President, or any Executive Vice President or Vice President may, by written instrument under the attested corporate seal, appoint attorneys-in-fact with authority to execute bonds, policies, recognizances, stipulations, undertakings, or other like instruments on behalf of the Company, and may authorize any officer or any such attorney-in-fact to affix the corporate seal thereto; and may with or without cause modify or revoke any such appointment or authority at any time."

CERTIFICATE

I, the undersigned, Vice President of the ZURICH AMERICAN INSURANCE COMPANY, the COLONIAL AMERICAN CASUALTY AND SURETY COMPANY, and the FIDELITY AND DEPOSIT COMPANY OF MARYLAND, do hereby certify that the foregoing Power of Attorney is still in full force and effect on the date of this certificate; and I do further certify that Article V, Section 8, of the By-Laws of the Companies is still in force.

This Power of Attorney and Certificate may be signed by facsimile under and by authority of the following resolution of the Board of Directors of the ZURICH AMERICAN INSURANCE COMPANY at a meeting duly called and held on the 15th day of December 1998.

RESOLVED: "That the signature of the President or a Vice President and the attesting signature of a Secretary or an Assistant Secretary and the Seal of the Company may be affixed by facsimile on any Power of Attorney...Any such Power or any certificate thereof bearing such facsimile signature and seal shall be valid and binding on the Company."

This Power of Attorney and Certificate may be signed by facsimile under and by authority of the following resolution of the Board of Directors of the COLONIAL AMERICAN CASUALTY AND SURETY COMPANY at a meeting duly called and held on the 5th day of May, 1994, and the following resolution of the Board of Directors of the FIDELITY AND DEPOSIT COMPANY OF MARYLAND at a meeting duly called and held on the 10th day of May, 1990.

RESOLVED: "That the facsimile or mechanically reproduced seal of the company and facsimile or mechanically reproduced signature of any Vice-President, Secretary, or Assistant Secretary of the Company, whether made heretofore or hereafter, wherever appearing upon a certified copy of any power of attorney issued by the Company, shall be valid and binding upon the Company with the same force and effect as though manually affixed.

IN TESTIMONY WHEREOF, I have hereunto subscribed my name and affixed the corporate seals of the said Companies, this 28th day of February, 2019 .



A handwritten signature in cursive script that reads "Michael C. Fay".

Michael C. Fay, Vice President

TO REPORT A CLAIM WITH REGARD TO A SURETY BOND, PLEASE SUBMIT A COMPLETE DESCRIPTION OF THE CLAIM INCLUDING THE PRINCIPAL ON THE BOND, THE BOND NUMBER, AND YOUR CONTACT INFORMATION TO:

Zurich Surety Claims
1299 Zurich Way
Schaumburg, IL 60196-1056
www.reportsfclaims@zurichna.com
800-626-4577



Return with Bid

Route Various
County Cook/Lake
Local Agency V. of Buffalo Grove
Section 19-00000-01-GM

All contractors are required to complete the following certification:

- For this contract proposal or for all groups in this deliver and install proposal.
- For the following deliver and install groups in this material proposal:

Illinois Department of Transportation policy, adopted in accordance with the provisions of the Illinois Highway Code, requires this contract to be awarded to the lowest responsive and responsible bidder. The award decision is subject to approval by the Department. In addition to all other responsibility factors, this contract or deliver and install proposal requires all bidders and all bidders' subcontractors to disclose participation in apprenticeship or training programs that are (1) approved by and registered with the United States Department of Labor's Bureau of Apprenticeship and Training, and (2) applicable to the work of the above indicated proposals or groups. Therefore, all bidders are required to complete the following certification:

- I. Except as provided in paragraph IV below, the undersigned bidder certifies that it is a participant, either as an individual or as part of a group program, in an approved apprenticeship or training program applicable to each type of work or craft that the bidder will perform with its own employees.
- II. The undersigned bidder further certifies for work to be performed by subcontract that each of its subcontractors submitted for approval either (A) is, at the time of such bid, participating in an approved, applicable apprenticeship or training program; or (B) will, prior to commencement of performance of work pursuant to this contract, establish participation in an approved apprenticeship or training program applicable to the work of the subcontract.
- III. The undersigned bidder, by inclusion in the list in the space below, certifies the official name of each program sponsor holding the Certificate of Registration for all of the types of work or crafts in which the bidder is a participant and that will be performed with the bidder's employees. Types of work or craft that will be subcontracted shall be included and listed as subcontract work. The list shall also indicate any type of work or craft job category for which there is no applicable apprenticeship or training program available.


J.A. Johnson Paving Co...A/Equipment Operators, Local 150, B/Teamsters, Local 731, C/Laborers, Chicagoland
and Vicinity District Council
Subcontractors...A/Equipment Operators, B/Teamsters, C/Laborers, D/Cement Masons, E/Electricians,
F/Iron Workers & G/Carpenters

- IV. Except for any work identified above, any bidder or subcontractor that shall perform all or part of the work of the contract or deliver and install proposal solely by individual owners, partners or members and not by employees to whom the payment of prevailing rates of wages would be required, check the following box, and identify the owner/operator workforce and positions of ownership.

The requirements of this certification and disclosure are a material part of the contract, and the contractor shall require this certification provision to be included in all approved subcontracts. The bidder is responsible for making a complete report and shall make certain that each type of work or craft job category that will be utilized on the project is accounted for and listed. The Department at any time before or after award may require the production of a copy of each applicable Certificate of Registration issued by the United States Department of Labor evidencing such participation by the contractor and any or all of its subcontractors. In order to fulfill the participation requirement, it shall not be necessary that any applicable program sponsor be currently taking or that it will take applications for apprenticeship, training or employment during the performance of the work of this contract or deliver and install proposal.

Bidder: J.A. Johnson Paving Co

By:


(Signature)

Address: 1025 E. Addison Court, Arlington Heights, IL

Title:

Dale A. Johnson, President



Affidavit of Illinois Business Office

County Cook/Lake
Local Public Agency V. of Buffalo Grove
Section Number 19-00000-01-GM
Route Various

State of Illinois)
) ss.
County of Cook)

I, Dale A. Johnson of Arlington Heights, Illinois,
(Name of Affiant) (City of Affiant) (State of Affiant)

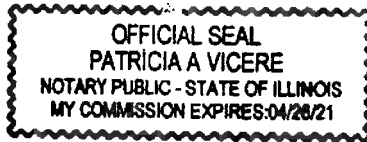
being first duly sworn upon oath, states as follows:

- 1. That I am the President of J.A. Johnson Paving Co.
2. That I have personal knowledge of the facts herein stated.
3. That, if selected under this proposal, J.A. Johnson Paving Co. will maintain a business office in the State of Illinois which will be located in Cook County, Illinois.
4. That this business office will serve as the primary place of employment for any persons employed in the construction contemplated by this proposal.
5. That this Affidavit is given as a requirement of state law as provided in Section 30-22(8) of the Illinois Procurement Code.

Dale A. Johnson (Signature)
Dale A. Johnson, President (Print Name of Affiant)

This instrument was acknowledged before me on 28th day of February, 2019.

(SEAL)



(Signature of Notary Public)



Illinois Department of Transportation

Bureau of Construction
2300 South Dirksen Parkway/Room 322
Springfield, Illinois 62764

PAGE 1A
Affidavit of Availability
For the Letting of *2019*
(Letting date)

Instructions: Complete this form by either typing or using black ink. "Authorization to Bid" will not be issued unless both sides of this form are completed in detail. Use additional forms as needed to list all work.

Part I. Work Under Contract

List below all work you have under contract as either a prime contractor or a subcontractor. It is required to include all pending low bids not yet awarded or rejected. In a joint venture, list only that portion of the work which is the responsibility of your company. The uncompleted dollar value is to be based upon the most recent engineer's or owners estimate, and must include work subcontracted to others. If no work is contracted, show NONE.

| | 1 | 2 | 3 | 4 | 5 | |
|--|--------------|------------|--------------|------|------|---------------------|
| Contract Number | 61E54 | 61E98 | 62D65 | | | |
| Contract With | IDOT | IDOT | IDOT | | | |
| Estimated Completion Date | 6/19 | 8/19 | 8/19 | | | |
| Total Contract Price | 1,642,600.00 | 886,000.00 | 3,488,000.00 | | | Accumulated Totals |
| Uncompleted Dollar Value if Firm is the Prime Contractor | 323,600.00 | 886,000.00 | 2,093,950.00 | 0.00 | 0.00 | 3,303,450.00 |
| Uncompleted Dollar Value if Firm is the Subcontractor | | | | | | 0.00 |
| Total Value of All Work | | | | | | 3,303,450.00 |

Part II. Awards Pending and Uncompleted Work to be done with your own forces.

List below the uncompleted dollar value of work for each contract and awards pending to be completed with your own forces. All work subcontracted to others will be listed on the reverse of this form. In a joint venture, list only that portion of the work to be done by your company. If no work is contracted, show NONE.

| | | | | | Accumulated Totals | |
|---------------------------------------|-------------|-------------------|---------------------|-------------|--------------------|---------------------|
| Earthwork | | 10,500.00 | | | 10,500.00 | |
| Portland Cement Concrete Paving | | | | | 0.00 | |
| HMA Plant Mix | | 489,000.00 | 1,007,500.00 | | 1,496,500.00 | |
| HMA Paving | | | | | 0.00 | |
| Clean & Seal Cracks/Joints | | | | | 0.00 | |
| Aggregate Bases & Surfaces | | 3,000.00 | | | 3,000.00 | |
| Highway, R.R. and Waterway Structures | | | | | 0.00 | |
| Drainage | | | | | 0.00 | |
| Electrical | | | | | 0.00 | |
| Cover and Seal Coats | | | | | 0.00 | |
| Concrete Construction | | | | | 0.00 | |
| Landscaping | | | | | 0.00 | |
| Fencing | | | | | 0.00 | |
| Guardrail | | | | | 0.00 | |
| Painting | | | | | 0.00 | |
| Signing | | | | | 0.00 | |
| Cold Milling, Planning & Rotomilling | | 93,000.00 | 172,500.00 | | 265,500.00 | |
| Demolition | | | | | 0.00 | |
| Pavement Markings (Paint) | | | | | 0.00 | |
| Other Construction (List) - PATCHING | | 17,000.00 | 31,000.00 | | 48,000.00 | |
| Other Construction (List) - BRICK | | | | | 0.00 | |
| RAILROAD INSURANCE | | | | | 0.00 | |
| Totals | 0.00 | 612,500.00 | 1,211,000.00 | 0.00 | 0.00 | 1,823,500.00 |

Disclosure of this information is REQUIRED to accomplish the statutory purpose as outlined in the "Illinois Procurement Code" Failure to comply will result in non-issuance of an "Authorization To Bid." This form has been approved by the State Forms Management Center.

Part III. Work Subcontracted to Others

For each contract described in Part I, list all the work you have subcontracted to others.

| | 1 | 2 | 3 | 4 | 5 |
|--------------------|-------------------|-------------------|----------------|------|------|
| Subcontractor | Kreative Scape | RAI CONCRETE | RULA'S ENT. | | |
| Type of Work | Concrete | CONCRETE | CONCRETE | | |
| Subcontract Price | 241,500.00 | 139,500.00 | 418,500.00 | | |
| Amount Uncompleted | 0.00 | 139,500.00 | 209,250.00 | | |
| Subcontractor | H&H ELECTRIC | HOME TOWNE | HOME TOWNE | | |
| Type of Work | ELECTRIC | ELECTRIC | ELECTRIC | | |
| Subcontract Price | 5,500.00 | 16,500.00 | 64,500.00 | | |
| Amount Uncompleted | 0.00 | 16,500.00 | 43,200.00 | | |
| Subcontractor | GALAXY UND. | JR PREMIER | PVT. GROOVING | | |
| Type of Work | SEWER | LANDSCAPING | PENHALL CO. | | |
| Subcontract Price | 157,500.00 | 7,000.00 | 321,500.00 | | |
| Amount Uncompleted | 0.00 | 7,000.00 | 321,500.00 | | |
| Subcontractor | JR PREMIER | GALAXY UND. | SUPERIOR | | |
| Type of Work | LANDSCAPING | SEWER | PVT MKGS | | |
| Subcontract Price | 127,000.00 | 40,500.00 | 62,000.00 | | |
| Amount Uncompleted | 62,500.00 | 40,500.00 | 46,000.00 | | |
| Subcontractor | PRECISION PVT MKG | ROAD FABRICS | TCP, INC. | | |
| Type of Work | PVT MKGS | LJS | TRAFF CONTROL | | |
| Subcontract Price | 12,500.00 | 32,000.00 | 70,500.00 | | |
| Amount Uncompleted | 0.00 | 32,000.00 | 53,000.00 | | |
| Subcontractor | HIGHWAY SFTY | PRECISION PVT MKG | GALAXY UND. | | |
| Type of Work | TRAFF CONTROL | PVT MKGS | SEWER | | |
| Subcontract Price | 18,000.00 | 28,000.00 | 202,000.00 | | |
| Amount Uncompleted | 0.00 | 28,000.00 | 110,000.00 | | |
| Subcontractor | DECORATIVE RAIL | TCP, INC. | VISU-SEWER | | |
| Type of Work | PEERLESS FENCE | TRAFF CONTROL | SEWER CLEANING | | |
| Subcontract Price | 261,000.00 | 10,000.00 | 100,000.00 | | |
| Amount Uncompleted | 261,000.00 | 10,000.00 | 100,000.00 | | |
| Total Uncompleted | 323,500.00 | 273,500.00 | 882,950.00 | 0.00 | 0.00 |

I, being duly sworn, do hereby declare this affidavit is a true and correct statement relating to ALL uncompleted contracts of the undersigned for Federal, State, County, City and private work, including ALL subcontract work, ALL pending low bids not yet awarded or rejected and ALL estimated completion dates

Subscribed and sworn to before me

this 28th day of FEBRUARY, 2019


 Notary Public

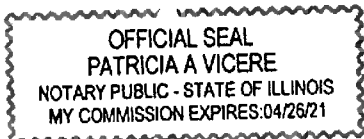
Type or Print Name DALE A. JOHNSON, PRESIDENT
 Officer or Director Title

Signed 

My commission expires: 4/26/21

Company J.A. JOHNSON PAVING CO

(Notary Seal)



Address 1025 E. ADDISON COURT
ARLINGTON HEIGHTS, IL 60005



**Illinois Department
of Transportation**

Certificate of Eligibility

J. A. Johnson Paving Company
1025 East Addison Court Arlington Heights, IL 60005

Contractor No 3020

WHO HAS FILED WITH THE DEPARTMENT AN APPLICATION FOR PREQUALIFICATION STATEMENT OF EXPERIENCE, EQUIPMENT AND FINANCIAL CONDITION IS HEREBY QUALIFIED TO BID AT ANY OF DEPARTMENT OF TRANSPORTATION LETTINGS IN THE CLASSES OF WORK AND WITHIN THE AMOUNT AND OTHER LIMITATIONS OF EACH CLASSIFICATION, AS LISTED BELOW, FOR SUCH PERIOD AS THE UNCOMPLETED WORK FROM ALL SOURCES DOES NOT EXCEED

\$34,842,000.00

| | | |
|-----|-----------------------------|--------------|
| 001 | EARTHWORK | \$1,500,000 |
| 003 | HMA PLANT MIX | \$33,950,000 |
| 012 | DRAINAGE | \$50,000 |
| 017 | CONCRETE CONSTRUCTION | \$50,000 |
| 032 | COLD MILL PLAN. & ROTOMILL | \$7,425,000 |
| 08A | AGGREGATE BASES & SURF. (A) | \$1,525,000 |

THIS CERTIFICATE OF ELIGIBILITY IS VALID FROM 4/17/2018 TO 4/30/2019 INCLUSIVE, AND SUPERSEDES ANY CERTIFICATE PREVIOUSLY ISSUED, BUT IS SUBJECT TO REVISION OR REVOCATION, IF AND WHEN CHANGES IN THE FINANCIAL CONDITION OF THE CONTRACTING FIRM OR OTHER FACTS JUSTIFY SUCH REVISIONS OR REVOCATION. ISSUED AT SPRINGFIELD, ILLINOIS ON 4/24/2018.

Tim Bell

Engineer of Construction

VILLAGE OF BUFFALO GROVE PUBLIC CONTRACT STATEMENTS

The Village of Buffalo Grove is required to obtain certain information in the administration and awarding of public contracts. The following Public Contract Statements shall be executed and notarized.

PUBLIC CONTRACT STATEMENTS

CERTIFICATION OF CONTRACTOR/CONSULTANT

In order to comply with 720 Illinois Compiled Statutes 5/33 E-1 et seq., the Village of Buffalo Grove requires the following certification be acknowledged:

The below signed Contractor/Consultant hereby certifies that it is not barred from Bidding or supplying any goods, services or construction let by the Village of Buffalo Grove with or without Bid, due to any violation of either Section 5/33 E-3 or 5/33 E-4 of Article 33E, Public Contracts, of the Chapter 720 of the Illinois Compiled Statutes, as amended. This act relates to interference with public contracting, Bid rigging and rotating, kickbacks, and Bidding.

CERTIFICATION RELATIVE TO 65 ILCS 5/11-42.1.1

In order to comply with 65 Illinois Compiled Statutes 5/11-42.1.1, the Village of Buffalo Grove requires the following certification:

The undersigned Contractor/Consultant does hereby swear and affirm that it is not delinquent in the payment of any tax administered by the Illinois Department of Revenue unless it is contesting, in accordance with the procedures established by the appropriate revenue Act, its liability for the tax or the amount of the tax. The undersigned further understands that making a false statement herein: (1) is a Class A Misdemeanor, and (2) voids the contract and allows the Village to recover all amounts paid to it under the contract.

CONFLICT OF INTEREST

The Village of Buffalo Grove Municipal Code requires the following verification relative to conflict of interest and compliance with general ethics requirements of the Village:

The undersigned Contractor/Consultant hereby represents and warrants to the Village of Buffalo Grove as a term and condition of acceptance of this (Proposal or purchase order) that none of the following Village Officials is either an officer or Manager of Firm or owns five percent (5%) or more of the Supplier: the Village President, the members of the Village Board of Trustees, the Village Clerk, the Village Treasurer, the members of the Zoning Board of Appeals and the Plan Commission, the Village Manager and his Assistant or Assistants, or the heads of the various departments within the Village.

If the foregoing representation and warranty is inaccurate, state the name of the Village official who either is an officer or Manager of your business entity or owns five percent (5%) or more thereof:

(Official) none

Print Name of Contractor/Consultant

J.A. Johnson Paving

Dale A. Johnson Signature

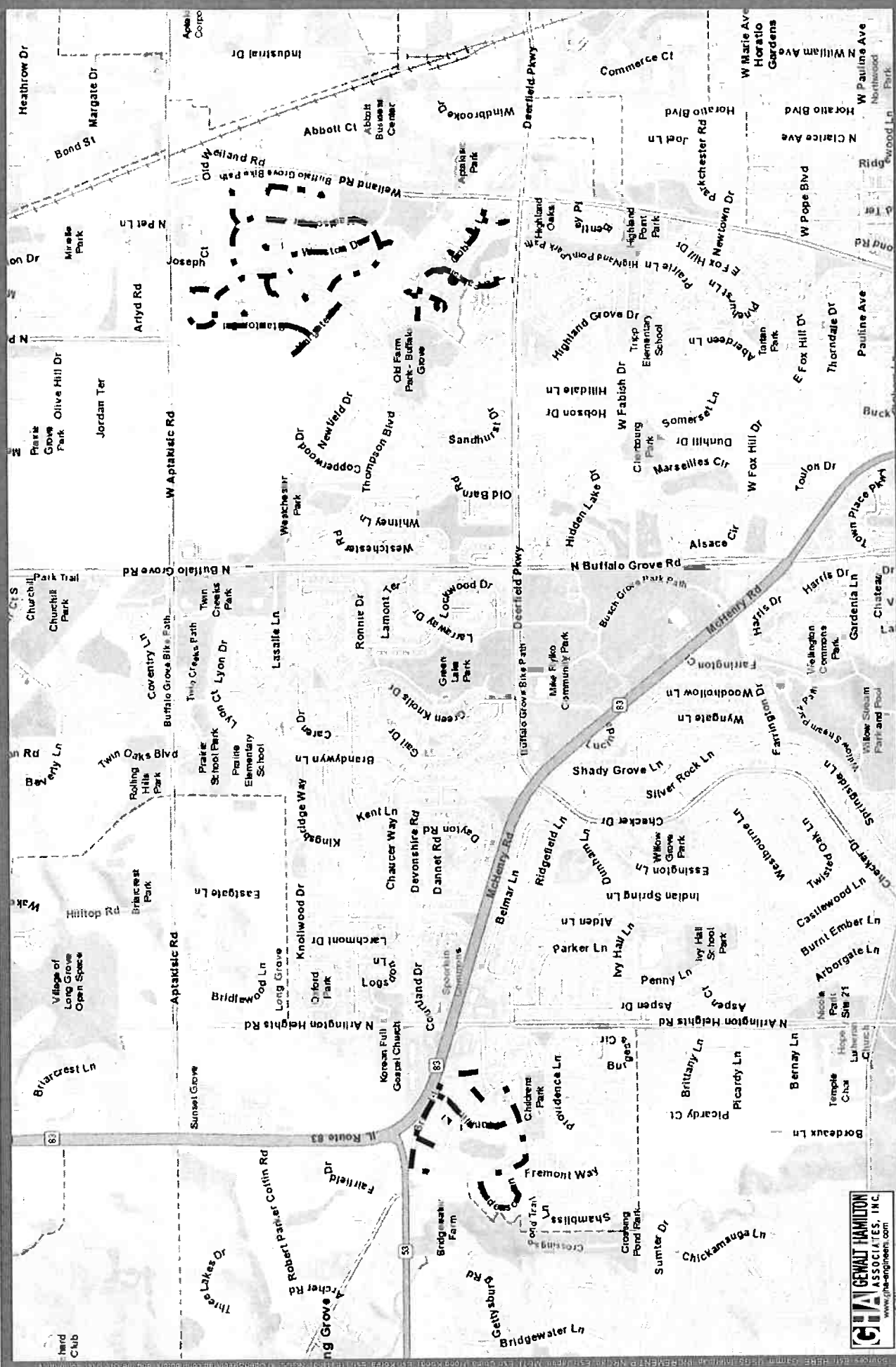
Dale A. Johnson, President Title

Subscribed and Sworn to before me this 28th day of February, 2019.

[Signature]
Notary Public

Notary Expiration Date 2/28/20





2019 Pavement Patching Program

VoBG-2019-01



1 in = 1,500 ft

This map is for informational purposes only. It is not intended to be used as a legal document. The information on this map is subject to change without notice.

**Description of Work
 2019 Pavement Patching Project
 Village of Buffalo Grove**

The following is a list of streets including limits, lengths, area, and a brief description of work:

| Street | From/To |
|---------------------------|-------------------------------------|
| Anderson Lane | Fremont Way to Fremont Way |
| Bristol Lane | Fremont Way to Fremont Way |
| Farnsworth Lane | Fremont Way to Bristol Ln |
| Fremont Court East | Fremont Way to East End |
| Fremont Court West | Fremont Way to East End |
| Franklin Lane | Bristol Ln to Fairfax Ln |
| Fairfax Lane | Fremont Way to Fremont Way |
| Banyan Tree Lane | Buffalo Grove Rd to East End |
| Live Oak Lane | North End to Banyan Tree Ln |
| Satinwood Terrace | Buffalo Grove Rd to Brandywyn Ln |
| Satinwood Court West | North End to Satinwood Terr |
| Satinwood Court North | North End to Satinwood Terr |
| Satinwood Court South | West End to Satinwood Terr |
| Magnolia Court East | West End to Satinwood Terr |
| Margate Drive | West End to Thompson Blvd |
| Stanton Drive | Margate Dr to Thompson Blvd |
| Village Court | West End to Thompson Blvd |
| Thistle Court | West End to Stanton Dr |
| Stanton Court West | North End to Stanton Dr |
| Stanton Court East | North End to Stanton Dr |
| Madison Drive | Stanton Dr to Thompson Blvd |
| Madison Court North | Madison Dr to East End |
| Quaker Hollow Court North | North End to Thompson Blvd |
| Quaker Hollow Court South | Thompson Blvd to South End |
| Winston Drive | Thompson Blvd to Madison Dr |
| Madison Court South | Madison Dr to South End |
| River Oaks Circle East | Buffalo Grove Rd to East End |
| River Oaks Circle West | West End to Buffalo Grove Rd |
| East Fabish Drive | Highland Grove Dr to Deerfield Pkwy |
| Cobbler Lane | E Fabish Dr to Weiland Rd |
| Wellington Court North | North End to E Fabish Dr |
| Wellington Court South | E Fabish Dr to South End |
| Russellwood Court | Cobbler Ln to South End |
| Clearview Court | Cobbler Ln to Cobbler Ln |
| Churchill Court | Cobbler Ln to Cobbler Ln |
| Various Locations | |

The above street segments will include hot-mix asphalt surface pavement at various locations selected by the Engineer, and other associated improvements.

SUMMARY OF QUANTITIES

| SP | ITEM NO | DESCRIPTION | UNIT | QUANTITY | Anderson Lane | Bristol Lane | Farnsworth Lane | Fremont Court East | Fremont Court West |
|----|----------|---|------|----------|---------------|--------------|-----------------|--------------------|--------------------|
| * | X7010216 | Traffic Control and Protection, (Special) | LS | 1 | 0.028 | 0.030 | 0.028 | 0.028 | 0.028 |
| * | - | Class D Patches, Type II, 2 Inch (Special) | SY | 1,700 | 20.0 | | | | |
| * | - | Class D Patches, Type III, 2 Inch (Special) | SY | 2,780 | 45.0 | 165.0 | 45.0 | 25.0 | 50.0 |
| * | - | Class D Patches, Type IV, 2 Inch (Special) | SY | 5,280 | 130.0 | 275.0 | 40.0 | 65.0 | 35.0 |

* Special Provision Required

SUMMARY OF QUANTITIES

| SP | ITEM NO | DESCRIPTION | UNIT | QUANTITY | Franklin Lane | Fairfax Lane | Banyan Tree Lane | Live Oak Lane | Satinwood Terrace |
|----|----------|---|------|----------|---------------|--------------|------------------|---------------|-------------------|
| * | X7010216 | Traffic Control and Protection, (Special) | LS | 1 | 0.028 | 0.030 | 0.028 | 0.028 | 0.030 |
| * | - | Class D Patches, Type II, 2 Inch (Special) | SY | 1,700 | 60.0 | 45.0 | 70.0 | 80.0 | 70.0 |
| * | - | Class D Patches, Type III, 2 Inch (Special) | SY | 2,780 | 25.0 | 135.0 | 115.0 | 105.0 | 120.0 |
| * | - | Class D Patches, Type IV, 2 Inch (Special) | SY | 5,260 | 255.0 | 475.0 | 150.0 | 135.0 | 180.0 |

* Special Provision Required

SUMMARY OF QUANTITIES

| SP | ITEM NO | DESCRIPTION | UNIT | QUANTITY | Satinwood Court W | Satinwood Court N | Satinwood Court S | Magnolia Court East | Margate Drive |
|----|----------|---|------|----------|-------------------|-------------------|-------------------|---------------------|---------------|
| * | X7010216 | Traffic Control and Protection, (Special) | LS | 1 | 0.028 | 0.028 | 0.028 | 0.030 | 0.028 |
| * | - | Class D Patches, Type II, 2 Inch (Special) | SY | 1,700 | 15.0 | 70.0 | 30.0 | 50.0 | 75.0 |
| * | - | Class D Patches, Type III, 2 Inch (Special) | SY | 2,780 | 25.0 | 100.0 | 35.0 | 80.0 | 115.0 |
| * | - | Class D Patches, Type IV, 2 Inch (Special) | SY | 5,260 | 40.0 | 150.0 | 70.0 | 300.0 | 130.0 |

* Special Provision Required

SUMMARY OF QUANTITIES

| SP | ITEM NO | DESCRIPTION | UNIT | QUANTITY | Stanton Drive | Village Court | Thistle Court | Stanton Court West | Stanton Court East |
|----|----------|---|------|----------|---------------|---------------|---------------|--------------------|--------------------|
| * | X7010216 | Traffic Control and Protection, (Special) | LS | 1 | 0.030 | 0.028 | 0.028 | 0.028 | 0.028 |
| * | - | Class D Patches, Type II, 2 Inch (Special) | SY | 1,700 | 120.0 | 20.0 | 30.0 | 30.0 | 35.0 |
| * | - | Class D Patches, Type III, 2 Inch (Special) | SY | 2,780 | 190.0 | 30.0 | 40.0 | 40.0 | 45.0 |
| * | - | Class D Patches, Type IV, 2 Inch (Special) | SY | 5,260 | 380.0 | 45.0 | 45.0 | 60.0 | 60.0 |

* Special Provision Required

SUMMARY OF QUANTITIES

| SP | ITEM NO | DESCRIPTION | UNIT | QUANTITY | Madison Drive | Madison Court North | Quaker Hollow Court N | Quaker Hollow Court S |
|----|----------|---|------|----------|---------------|---------------------|-----------------------|-----------------------|
| * | X7010216 | Traffic Control and Protection, (Special) | LS | 1 | 0.030 | 0.028 | 0.028 | 0.028 |
| * | - | Class D Patches, Type II, 2 Inch (Special) | SY | 1,700 | 150.0 | 35.0 | | 40.0 |
| * | - | Class D Patches, Type III, 2 Inch (Special) | SY | 2,780 | 300.0 | 45.0 | 35.0 | 45.0 |
| * | - | Class D Patches, Type IV, 2 Inch (Special) | SY | 5,260 | 530.0 | 70.0 | 65.0 | 55.0 |

* Special Provision Required

SUMMARY OF QUANTITIES

| SP | ITEM NO | DESCRIPTION | UNIT | QUANTITY | Winston Drive | Madison Court South | River Oaks Circle E | River Oaks Circle W | E Fabish Drive |
|----|----------|---|------|----------|---------------|---------------------|---------------------|---------------------|----------------|
| * | X7010216 | Traffic Control and Protection, (Special) | LS | 1 | 0.030 | 0.028 | 0.030 | 0.028 | 0.030 |
| * | - | Class D Patches, Type II, 2 Inch (Special) | SY | 1,700 | 85.0 | 20.0 | 90.0 | 20.0 | 150.0 |
| * | - | Class D Patches, Type III, 2 Inch (Special) | SY | 2,780 | 95.0 | 25.0 | 100.0 | 25.0 | 200.0 |
| * | - | Class D Patches, Type IV, 2 Inch (Special) | SY | 5,260 | 160.0 | 40.0 | 125.0 | 35.0 | 400.0 |

* Special Provision Required

SUMMARY OF QUANTITIES

| SP | ITEM NO | DESCRIPTION | UNIT | QUANTITY | Cobbler Lane | Wellington Court N | Wellington Court S | Russellwood Court | Clearview Court |
|----|----------|---|------|----------|--------------|--------------------|--------------------|-------------------|-----------------|
| * | X7010216 | Traffic Control and Protection, (Special) | LS | 1 | 0.030 | 0.028 | 0.028 | 0.028 | 0.028 |
| * | - | Class D Patches, Type II, 2 Inch (Special) | SY | 1,700 | 40.0 | 40.0 | 70.0 | 80.0 | 30.0 |
| * | - | Class D Patches, Type III, 2 Inch (Special) | SY | 2,780 | 100.0 | 50.0 | 75.0 | 85.0 | 35.0 |
| * | - | Class D Patches, Type IV, 2 Inch (Special) | SY | 5,280 | 410.0 | 55.0 | 115.0 | 90.0 | 45.0 |

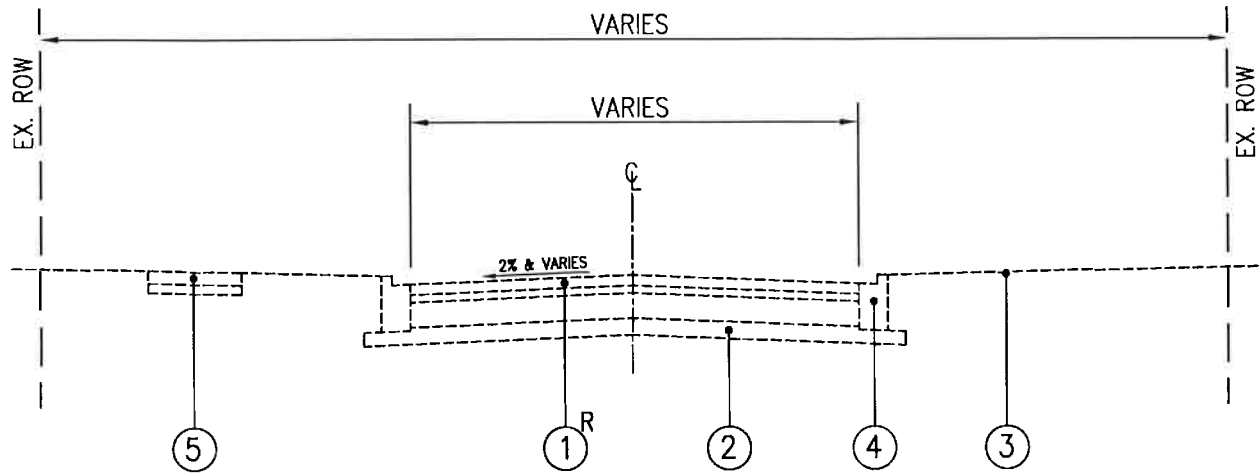
* Special Provision Required

SUMMARY OF QUANTITIES

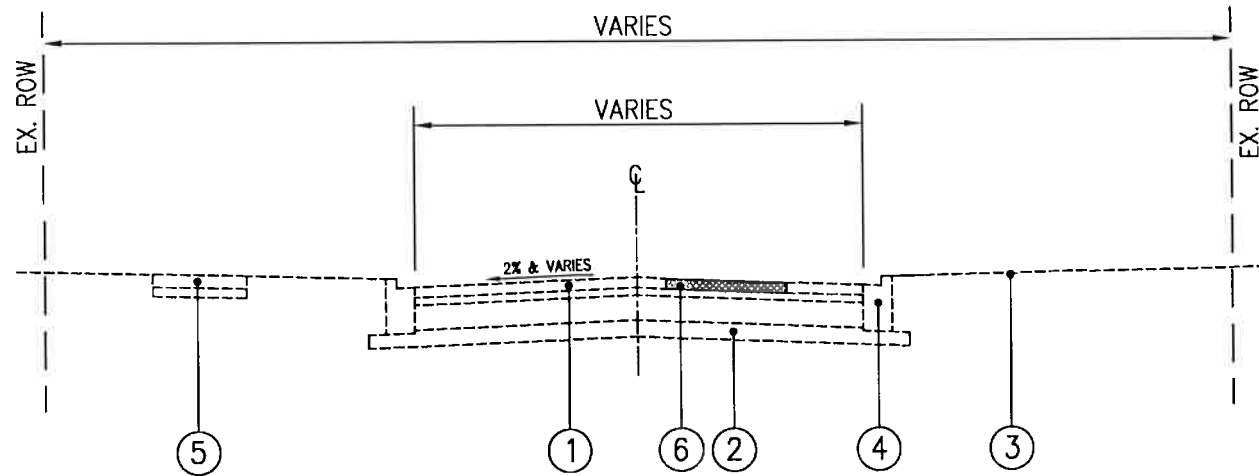
| SP | ITEM NO | DESCRIPTION | UNIT | QUANTITY | Churchill Court |
|----|----------|---|------|----------|-----------------|
| * | X7010216 | Traffic Control and Protection, (Special) | LS | 1 | 0.028 |
| * | - | Class D Patches, Type II, 2 Inch (Special) | SY | 1,700 | 30.0 |
| * | - | Class D Patches, Type III, 2 Inch (Special) | SY | 2,780 | 35.0 |
| * | - | Class D Patches, Type IV, 2 Inch (Special) | SY | 5,260 | 45.0 |

* Special Provision Required

HMA PAVEMENT PATCHING



EXISTING PAVEMENT SECTION



PROPOSED PAVEMENT SECTION

TYPICAL SECTION LEGEND

- | NO | DESCRIPTION |
|----------------|--|
| ① | EXISTING BITUMINOUS PAVEMENT, VARIES |
| ② | EXISTING AGGREGATE BASE COURSE, VARIES |
| ③ | EXISTING GROUND |
| ④ | EXISTING COMBINATION CONCRETE CURB AND GUTTER, TYPE VARIES |
| ⑤ | EXISTING CONCRETE SIDEWALK |
| ⑥ | PROPOSED CLASS D PATCHES, 2 INCH (as required) |
| ⓧ ^R | ITEM TO BE REMOVED |

TYPICAL SECTION 1 OF 1

GHA GEWALT HAMILTON ASSOCIATES, INC.
 625 Forest Edge Drive ▪ Vernon Hills, IL. 60061
 TEL 847.478.9700 ▪ FAX 847.478.9701

TYPICAL SECTION
HMA PAVEMENT PATCHING
2019 PAVEMENT PATCHING PROGRAM
VILLAGE OF BUFFALO GROVE, ILLINOIS

| | |
|------------------------|---------------|
| FILE: 4798.037_PR1.dwg | |
| DRAWN BY: LJD | GHA PROJECT # |
| DATE: 12/28/2018 | 4798.037 |
| CHECKED BY: BJW | SCALE: NTS |



The Following Recurring Special Provisions Indicated By An "X" Are Applicable To This Contract And Are Included By Reference:

Recurring Special Provisions

| <u>Check Sheet #</u> | | <u>Page No.</u> |
|----------------------|---|-----------------|
| 1 | <input type="checkbox"/> Additional State Requirements for Federal-Aid Construction Contracts | 75 |
| 2 | <input type="checkbox"/> Subletting of Contracts (Federal-Aid Contracts) | 78 |
| 3 | <input type="checkbox"/> EEO | 79 |
| 4 | <input type="checkbox"/> Specific EEO Responsibilities Non Federal-Aid Contracts | 89 |
| 5 | <input type="checkbox"/> Required Provisions - State Contracts | 94 |
| 6 | <input type="checkbox"/> Asbestos Bearing Pad Removal | 100 |
| 7 | <input type="checkbox"/> Asbestos Waterproofing Membrane and Asbestos HMA Surface Removal | 101 |
| 8 | <input type="checkbox"/> Temporary Stream Crossings and In-Stream Work Pads | 102 |
| 9 | <input type="checkbox"/> Construction Layout Stakes Except for Bridges | 103 |
| 10 | <input type="checkbox"/> Construction Layout Stakes | 106 |
| 11 | <input type="checkbox"/> Use of Geotextile Fabric for Railroad Crossing | 109 |
| 12 | <input type="checkbox"/> Subsealing of Concrete Pavements | 111 |
| 13 | <input type="checkbox"/> Hot-Mix Asphalt Surface Correction | 115 |
| 14 | <input type="checkbox"/> Pavement and Shoulder Resurfacing | 117 |
| 15 | <input type="checkbox"/> Patching with Hot-Mix Asphalt Overlay Removal | 118 |
| 16 | <input type="checkbox"/> Polymer Concrete | 120 |
| 17 | <input type="checkbox"/> PVC Pipeliner | 122 |
| 18 | <input type="checkbox"/> Bicycle Racks | 123 |
| 19 | <input type="checkbox"/> Temporary Portable Bridge Traffic Signals | 125 |
| 20 | <input type="checkbox"/> Work Zone Public Information Signs | 127 |
| 21 | <input type="checkbox"/> Nighttime Inspection of Roadway Lighting | 128 |
| 22 | <input type="checkbox"/> English Substitution of Metric Bolts | 129 |
| 23 | <input type="checkbox"/> Calcium Chloride Accelerator for Portland Cement Concrete | 130 |
| 24 | <input type="checkbox"/> Quality Control of Concrete Mixtures at the Plant | 131 |
| 25 | <input type="checkbox"/> Quality Control/Quality Assurance of Concrete Mixtures | 139 |
| 26 | <input type="checkbox"/> Digital Terrain Modeling for Earthwork Calculations | 155 |
| 27 | <input type="checkbox"/> Reserved | 157 |
| 28 | <input type="checkbox"/> Preventive Maintenance - Bituminous Surface Treatment | 158 |
| 29 | <input type="checkbox"/> Reserved | 164 |
| 30 | <input type="checkbox"/> Reserved | 165 |
| 31 | <input type="checkbox"/> Reserved | 166 |
| 32 | <input type="checkbox"/> Temporary Raised Pavement Markers | 167 |
| 33 | <input type="checkbox"/> Restoring Bridge Approach Pavements Using High-Density Foam | 168 |
| 34 | <input type="checkbox"/> Portland Cement Concrete Inlay or Overlay | 171 |
| 35 | <input type="checkbox"/> Portland Cement Concrete Partial Depth Hot-Mix Asphalt Patching | 175 |

The Following Local Roads And Streets Recurring Special Provisions Indicated By An "X" Are Applicable To This Contract And Are Included By Reference:

Local Roads And Streets Recurring Special Provisions

| <u>Check Sheet #</u> | | <u>Page No.</u> |
|----------------------|--|-----------------|
| LRS 1 | Reserved | 179 |
| LRS 2 | <input type="checkbox"/> Furnished Excavation | 180 |
| LRS 3 | <input checked="" type="checkbox"/> Work Zone Traffic Control Surveillance | 181 |
| LRS 4 | <input checked="" type="checkbox"/> Flaggers in Work Zones | 182 |
| LRS 5 | <input checked="" type="checkbox"/> Contract Claims | 183 |
| LRS 6 | <input checked="" type="checkbox"/> Bidding Requirements and Conditions for Contract Proposals | 184 |
| LRS 7 | <input type="checkbox"/> Bidding Requirements and Conditions for Material Proposals | 190 |
| LRS 8 | Reserved | 196 |
| LRS 9 | <input type="checkbox"/> Bituminous Surface Treatments | 197 |
| LRS 10 | Reserved | 198 |
| LRS 11 | <input checked="" type="checkbox"/> Employment Practices | 199 |
| LRS 12 | <input checked="" type="checkbox"/> Wages of Employees on Public Works | 201 |
| LRS 13 | <input checked="" type="checkbox"/> Selection of Labor | 203 |
| LRS 14 | <input type="checkbox"/> Paving Brick and Concrete Paver Pavements and Sidewalks | 204 |
| LRS 15 | <input checked="" type="checkbox"/> Partial Payments | 207 |
| LRS 16 | <input type="checkbox"/> Protests on Local Lettings | 208 |
| LRS 17 | <input type="checkbox"/> Substance Abuse Prevention Program | 209 |
| LRS 18 | <input type="checkbox"/> Multigrade Cold Mix Asphalt | 210 |



| Local Public Agency | County | Section Number |
|--------------------------|-------------|----------------|
| Village of Buffalo Grove | Cook / Lake | 19-00000-01-GM |

The following Special Provision supplement the "Standard Specifications for Road and Bridge Construction", adopted April 1, 2016, the latest edition of the "Manual on Uniform Traffic Control Devices for Streets and Highways", and the "Manual of Test Procedures of Materials" in effect on the date of invitation of bids, and the Supplemental Specification and Recurring Special Provisions indicated on the Check Sheet included here in which apply to and govern the construction of the above named section, and in case of conflict with any parts, or parts of said Specifications, the said Special Provisions shall take precedence and shall govern.

2019 Pavement Patching Project

**TABLE OF CONTENTS
FOR CONTRACT SPECIAL PROVISIONS**

General Conditions

1. General Conditions
2. Definition of Village of Buffalo Grove
3. Reservation of Rights
4. Clean Construction and Demolition Debris (CCDD) Material Disposal
5. JULIE Notification
6. Prequalification of Bidders
7. Completion Date
8. Contract Sequencing
9. Construction Work Periods
10. Pre-Construction Meeting
11. Authority of the Engineer
12. Use of Fire Hydrants
13. Protection of Mailboxes
14. Dust Control
15. Public Notification
16. Traffic Control and Protection
17. Maintenance of Roadways
18. Maintenance Bond
19. Refuse Pick Up Schedule
20. Insurance Requirements
21. Certified Payroll Reports
22. Monetary Penalties

Special Provisions

1. Traffic Control and Protection
2. Class D Patches

IDOT District One - Special Provisions

1. Friction Aggregate (D-1)
2. HMA Mixture Design Requirements (D-1)
3. Reclaimed Asphalt Pavement and Reclaimed Asphalt Shingles (D-1)

General Conditions

1. General Conditions

It is the policy of the Municipality and other governing agencies to set standards for the performance of road and bridge construction. This contract shall expressly adhere to the 'Standard Specifications for Road and Bridge Construction', latest edition, and the 'Standard Specifications for Water and Sewer Main Construction in Illinois', latest edition, unless otherwise specified herein.

2. Definition of Village of Buffalo Grove

All references in the contract relating to the Department, Awarding Authority, Village of Buffalo Grove, Village etc. shall mean the Village of Buffalo Grove.

3. Reservation of Rights

The Village reserves the following rights regarding the bidding process:

- A. The right to accept the Bid Proposal that is, in the Village's sole judgment, the best and most favorable to the interests of the Village and the public.
- B. To reject the lowest bidder.
- C. To accept any item or any portion in any Bid Proposal from any bidder.
- D. To accept and incorporate corrections, clarifications or modifications following the Bid Due Date when doing so would not, in the Village's opinion, prejudice the procurement process or create any improper advantage to any bidder.
- E. To waive irregularities and informalities in the procurement process or in any Bid Proposal; provided, however, that the waiver of any prior defect or informality shall not be considered a waiver of any future or similar defects or informalities, and bidders shall not rely upon, or anticipate, such waivers in submitting their Bid Proposal.
- F. To disqualify any bidder that is found to have contacted the Village's personnel in any manner with regard to the Work.
- G. The right to approve or disapprove of any or all subcontractors, or insist on no subcontractors, in connection with any Bid Proposal.
- H. Reject any subcontractor from working on the Work if they are not listed in the Bid Proposal.
- I. The Village shall hold the Bid Security from the two (2) lowest bidders until the Contract is signed for the Work.
- J. Disqualify any bidder who requests changes to the Contract when such changes were not submitted with their Bid Proposal.
- K. To remove from or add to the project any portions thereof included in the 2019 Pavement Patching Program. Such reductions, if any, shall be made in writing by the Village prior to execution of the Contract Documents. Any reduction in the scope of work required by the Village prior to the execution of the Contract Documents shall result in an adjustment to the contract or to the price originally bid.

4. Clean Construction and Demolition Debris (CCDD) Material Disposal

Work under this item shall be performed in compliance with the Illinois Environmental Protection Agency (IEPA) guidelines in effect at the time of construction.

The Contractor will be required to make all arrangements for coordination and submission of the necessary documents with their chosen CCDD or other suitable disposal facility. Written confirmation of preliminary approval must be provided from the disposal facility and confirmed by the Owner as acceptable.

All surplus, clean material generated from the Contractor's activities must be disposed of at an IEPA permitted CCDD or otherwise acceptable facility. The Contractor is responsible for providing documentation to the Owner for each load hauled off-site showing the quantity of material and the location the material was disposed of.

Disposal of clean material not in compliance with these requirements will constitute breach of contract. If the Contractor fails to provide adequate documentation supporting the legal disposal of clean material according to this special provision, the Contractor shall be fined \$1,000 per load of material and will assume all liability associated with material disposed of not in compliance with this special provision.

No extra compensation will be allowed to the Contractor for any expenses incurred complying with these requirements including but not limited to: delays, inconvenience, or interruptions in the work resulting from compliance with these requirements. All costs associated with material disposal shall be included into the appropriate unit bid prices for the work.

5. JULIE Notification

The Contractor shall call the Joint Utility Locating Information for Excavators (JULIE) (1-800-892-0123 or 811), a minimum of forty-eight (48) hours in advance of work being done in the area in accordance with Article 107.39 of the Standard Specifications.

For utilities which are not members, excluding homeowners, the Contractor shall contact the owners directly. The Contractor will be required to cooperate with all utility companies and municipal agencies involved in connection with the removal, temporary relocation, reconstruction or abandonment by these agencies of any and all services.

No additional compensation will be allowed the Contractor for any expense incurred by complying with these requirements, or because of delays, inconvenience or interruptions in his work resulting from the failure of the municipal agencies or utility company to remove, relocate, reconstruct or abandon their services.

6. Prequalification of Bidders

Bidders shall be prequalified with the Illinois Department of Transportation in accordance with Article 102.01 of the Standard Specifications and is required by all bidders.

All bidders are required to fully register with the Village of Buffalo Grove, including IRS Form W-9, at:

<https://vrapp.vendorregistry.com/Vendor/Register/Index/buffalo-grove-village-of-il-vendor-registration>

OR

www.vbg.org/bids

Select the link 'Register My Business'

Please contact Vendor Registry at (844) 802-9202 for assistance in the registration process.

The Village of Buffalo Grove reserves the right to reject any or all proposals if the bidder does not comply with the requirements as stated herein.

7. Completion Date

The Contractor shall commence the work to be performed under this contract, on or near Monday, May 6, 2019. The work shall be prosecuted in such a manner and with such a supply of materials, equipment and labor as considered necessary to ensure its completion according to the time specified in the contract. The Contractor shall complete all work in the contract by **Friday, May 24, 2019**, including punch list items, as defined in Article 108.04 of the Standard Specifications.

In case of failure to complete the work on time, the provisions of Article 108.09 of the Standard Specifications shall apply.

The estimated Village Board award date for this project is Monday, March 18, 2019.

8. Contract Sequencing

The Contractor shall notify the Engineer at least 72 hours in advance of beginning work in each respective municipality and 48 hours prior to construction commencement on each subsequent street. Construction operations shall be conducted in a manner such that streets will remain open to all traffic. At no time shall residents or business owners be kept out of their driveway over a weekend or holiday as defined in article 107.09 of the Standard Specifications.

Work shall be scheduled so that it is continuous on the various roadways. The Contractor and approved Subcontractor(s) shall, at all times, employ and provide sufficient labor, tools, equipment, and other incidental items for prosecuting the work to full completion in the manner and time required by the contract.

9. Construction Work Periods

Construction operations shall be completed in accordance with Article 107.09 of the Standard Specifications. All work shall be confined to the period beginning at 7:00 AM and ending at 6:00 PM on weekdays. No work shall be done on weekends or legal holiday periods as defined in Article 107.09 of the Standard Specifications.

Any work outside the allowed time periods specified including but not limited to, material deliveries, mobilization of equipment, warming up machinery, and mobilization of equipment, a penalty of \$1,000 per occurrence may be imposed.

10. Pre-Construction Meeting

Prior to commencing any construction operations, there shall be a pre-construction meeting. The Owner or Engineer will set the time and date of the meeting following Contract award.

The following shall be submitted by the Contractor for review at the pre-construction meeting:

A Progress Schedule in accordance with Article 108.02.

The 24-hour emergency phone number and contact information of the assigned Contractor's superintendent, or otherwise.

The name and 24-hour emergency phone number of the person in the direct employ of the Contractor who is responsible for administrating the Traffic Control and Protection on the Contract

A list of subcontractors with contact information, including but not limited to name, phone number, and email address, and include quantity and type of work to be sublet for each respective subcontractor in accordance with Article 108.01 of the Standard Specifications.

A list of proposed sources of material.

Hot-mix asphalt and concrete mix designs, and respective quality control plans.

Any applicable shop drawing submittals.

11. Authority of the Engineer

Revise Article 105.01 Authority of Engineer to read:

"All work shall be done in accordance with the requirements of the Contract, the Engineer shall have the right, but not the obligation, to observe all work. The Engineer shall decide all questions that arise as to the interpretation of the Plans and Specifications and as to disputes and mutual rights between Contractors under the Specifications. The Engineer shall advise the Village of Buffalo Grove as to the quality and acceptability of materials furnished and work performed, rate of progress of the work, and acceptable fulfillment of the Contract. The Engineer will determine the amount of materials furnished and work performed. The Engineer's advice and determinations shall be conditions precedent to the right of the Contractor to receive money due the Contractor under the Contract."

"The Engineer will notify the Contractor in writing if the work is to be suspended by the Village of Buffalo Grove wholly or in part due to the failure of the Contractor to carry out provisions of the contract; for failure to carry out orders; for such periods due to unsuitable weather; for conditions considered unsuitable for the prosecution of the work or for any other condition or reason deemed to be in the public interest."

"In case of failure on the part of the Contractor to execute work as directed by the Engineer, the Village of Buffalo Grove may, at the expiration of a period of 48 hours after giving notice in writing to the Contractor, proceed to execute such work as may be deemed necessary, and the cost thereof shall be deducted from compensation due or which may become due to the Contractor under the contract."

The Engineer shall not assume any of the responsibilities of the Contractor's superintendent or of subcontractors; shall not expedite the work for the Contractor; and shall not advise on, or issue directions concerning aspects of construction means, methods, techniques, sequences or procedures, or safety precautions in connection with the work.

12. Use of Fire Hydrants

The indiscriminate use of fire hydrants is strictly prohibited. The Contractor can obtain non-potable water in bulk at no charge at the Buffalo Grove Public Works Department, 51 Raupp Blvd. The Contractor shall provide a water truck or containment and driver to obtain and transport the water. All water obtained from the Village shall be used for this project only. If deemed necessary, the Village reserves the right to restrict or refuse the use of Village water. The Contractor will be responsible for executing the required paperwork and follow all requirements of the Village. If it is determined that the Contractor or its subcontractors operate or use a Village fire hydrant, a monetary penalty of \$1,000 per occurrence that will be imposed.

13. Protection of Mailboxes

The Contractor shall take all necessary precautions when working near mailboxes within or adjacent to the project limits. If at the Contractor's discretion, a mailbox will interfere with construction operations, a temporary mailbox shall be located per the United States Postal Service requirements and the permanent mailbox reinstalled following said operation. At no time shall a resident be without a mailbox or not receive mail due to a mailbox being removed, replaced or damaged. The Contractor shall replace, at no additional cost to the Owner, any mailbox or post which has been damaged by the Contractor's operations due to neglect, misconduct or poor workmanship. The cost of all materials required and all labor necessary to comply with this specification herein will not be paid for separately, but shall be considered as included in the unit prices bid and no additional compensation shall be allowed.

The Contractor must maintain access for both residents and mail carriers to all mailboxes throughout the duration of the project.

14. Dust Control

The Contractor shall be required to control dust or air-borne dirt resulting from construction operations by utilizing a mechanical street sweeper on all pavement within or adjacent to the project work zone throughout the duration of the project. The resulting debris shall be disposed of off-site in accordance with Article 202.03 of the Standard Specifications. Individual fire hydrant use shall not be permitted to control dust at specific locations. The Contractor shall provide dust control operations daily or as directed by the Engineer.

The cost of this work shall be included in the unit prices bid and no additional compensation shall be allowed to control dust as specified herein.

15. Public Notification

The Contractor shall be required to provide and distribute letters to residents or business owners anytime access will be affected to a home or utility service is interrupted. This general condition shall only apply when access will be directly affected for greater than four (4) hours, or as directed by the Engineer. Public notification shall not be required for every residence within the project limits.

Letters shall be typed on standard 8.5" x 11" paper and an envelope may or may not be used. All letters, including those written and distributed by a subcontractor, shall be printed on the General Contractor's letterhead and shall include the name, address, and telephone number of the General Contractor's person in charge.

Letters shall be taped to a non-painted surface using painters tape or approved equal, and will be placed in as many locations as needed to ensure they will be visible to residents. Distributing letters via mailbox is discouraged, however, must be compliant with all United States Postal Service federal regulations. Notification letters shall include but is not limited to the following:

- Exact day and time work is to begin that will affect access (weather permitting).
- How the resident will know they may resume normal access to their property.
- The anticipated length of the closure (no more than one week will be permitted).
- Specific location where parking is permitted, both overnight and during the working day (as signed and normally permitted during daytime).
- The Village of Buffalo Grove Police Department has been notified that overnight parking will be permitted. (It shall be the responsibility of the Contractor to confirm this with the Village.)
- The Contractor will go door-to-door the moment prior to work is to begin to ensure all accommodations are made.
- General Contractor's person in charge name and contact information for additional information or specific requests.
- If applicable, provide Resident flushing procedures (following reconnection of the water service, resident to flush inside of the house via the bath or utility sink for ten minutes prior to consumption).

Notification letters shall be distributed a minimum of 24 hours prior to access being affected or otherwise. If this requirements is not met, work shall not commence. **All letters must be approved by the Village or Engineer prior to and for each individual distribution.** Additional letters may be required when weather or other unforeseen circumstances change the schedule. When requested, the Contractor is required to return or provide correspondence from a resident within 24 hours.

Under special circumstances, the Village, may choose to write a notification letter and the Contractor shall still be responsible for delivering the letter as specified herein. An example of a resident notification letter can be found in Appendix A.

The Contractor must comply with all of the above-mentioned statements otherwise a monetary penalty of \$100 per household, per calendar day shall be imposed.

16. Traffic Control and Protection

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.

Delays to the Contractor caused by complying with these requirements will be considered included in the cost of the contract, and no additional compensation will be allowed.

Standards

701301, 701311, 701501, and 701901

Details

TC-10 Traffic Control and Protection for Side Roads, Intersections and Driveways

Special Provisions

Maintenance of Roadways

LRS 3 – Work Zone Traffic Control Surveillance

LRS 4 – Flaggers in Work Zones

17. Maintenance of Roadways

Effective: September 30, 1985
Revised: November 1, 1996

Beginning on the date that the Contractor begins work on this project, he shall assume responsibility for normal maintenance of all existing roadways within the limits of the improvement. This normal maintenance shall include all repair work deemed necessary by the Engineer,

but shall not include snow removal operations. Traffic control and protection for maintenance of roadways will be provided by the Contractor as required by the Engineer.

If items of work have not been provided for in the contract, or otherwise specified for payment, such items, including the accompanying traffic control and protection required by the Engineer, will be paid for in accordance with Article 109.04 of the Standard Specifications.

18. Maintenance Bond

The Contractor will be required to post a Maintenance Bond for a period of One Year (1-yr) from date of final acceptance by the Village. Final acceptance will be the date the Final Payment is made to the Contractor. The bond shall be in a form acceptable to the Village in the amount of 10% (ten percent) of the awarded contract value. Unless under emergency situations, the Village will offer the Contractor the ability to fix or repair any item prior to the bond being called. If the Contractor elects to perform the repairs themselves, all work must be complete within 14 calendar days of notice from the Village or the Village reserves the right to perform the repairs themselves.

The Maintenance Bond shall cover all necessary repairs or replacements as deemed necessary by the Village due to poor workmanship, failed materials, settlement of trenches, excessively spalled, chert popped or cracked concrete, storm and water main failures, restoration establishment, and other items as completed by the Contractor.

All required pavement repairs shall be from curb line to the nearest cold joint. Pavement repairs shall have all joints routed and filled with crack seal material including along the edge of pavement 1 month after installation.

If the Contractor elects to not perform the repairs or does not perform them in the time allotted the Village will perform the work and collect from the bond any damages incurred by the Village to perform the repairs.

19. Refuse Pick Up Schedule

There will be no placement of hot-mix asphalt allowed on scheduled days of refuse pick up. The Contractor shall be responsible for determining the current refuse pickup schedule and incorporating it into their proposed project schedule.

20. Insurance Requirements

12.04.080 - Insurance.

A. Required Coverages and Limits. Unless otherwise provided by franchise, license, or similar agreement, each Contractor occupying right-of-way or constructing any facility in the right-of-way shall secure and maintain the following liability insurance policies insuring the Contractor as named insured and naming the Village, and its elected and appointed officers, officials, agents, and employees as additional insureds on the policies listed in subsection (A)(1) and (A)(2) of this section:

1. Commercial general liability insurance, including premises-operations, explosion, collapse, and underground hazard (commonly referred to as "X," "C," and "U" coverages) and products-completed operations coverage with limits not less than:
 - a. Five million dollars for bodily injury or death to each person,
 - b. Five million dollars for property damage resulting from any one accident, and
 - c. Five million dollars for all other types of liability;
2. Automobile liability for owned, non-owned and hired vehicles with a combined single limit of one million dollars for personal injury and property damage for each accident;
3. Worker's compensation with statutory limits; and
4. Employer's liability insurance with limits of not less than one million dollars per employee and per accident.

If the Contractor is not providing such insurance to protect the contractors and subcontractors performing the work, then such contractors and subcontractors shall comply with this section.

B. Excess or Umbrella Policies. The coverages required by this section may be in any combination of primary, excess, and umbrella policies. Any excess or umbrella policy must provide excess coverage over underlying insurance on a following-form basis such that when any loss covered by the primary policy exceeds the limits under the primary policy, the excess or umbrella policy becomes effective to cover such loss.

C. **Copies Required.** The Contractor shall provide copies of any of the policies including all endorsements or certificates required by this section to the Village within ten calendar days following receipt of a written request therefor from the Village.

D. **Maintenance and Renewal of Required Coverages.** The insurance policies required by this section shall contain the following endorsement:

"It is hereby understood and agreed that this policy may not be canceled nor the intention not to renew be stated until thirty (30) calendar days after receipt by the Village, by registered mail or certified mail, return receipt requested, of a written notice addressed to the Village Manager of such intent to cancel or not to renew."

Within ten (10) calendar days after receipt by the Village of said notice, and in no event later than ten (10) calendar days prior to said cancellation, the Contractor shall obtain and furnish to the Village evidence of replacement insurance policies meeting the requirements of this section.

E. **Self-Insurance.** A Contractor may self-insure all or a portion of the insurance coverage and limit requirements required by subsection A of this section. A Contractor that self-insures is not required, to the extent of such self-insurance, to comply with the requirement for the naming of additional insureds under subsection A of this section, or the requirements of subsections B through D of this section. A Contractor that elects to self-insure shall provide to the Village evidence sufficient to demonstrate its financial ability to self-insure the insurance coverage and limit requirements required under subsection A of this section, such as evidence that the Contractor is a "private self insurer" under the Workers Compensation Act.

F. **Effect of Insurance and Self-Insurance on Contractor's Liability.** The legal liability of the Contractor to the Village and any person for any of the matters that are the subject of the insurance policies or self-insurance required by this section shall not be limited by such insurance policies or self-insurance or by the recovery of any amounts thereunder.

G. **Insurance Companies.** All insurance provided pursuant to this section shall be effected under valid and enforceable policies, issued by insurers legally able to conduct business with the licensee in the State of Illinois. All insurance carriers and surplus line carriers shall be rated "A-" or better and of a class size "X" or higher by A.M. Best Company.

Nothing contained herein is intended to constitute, nor shall it constitute a waiver of the rights, defenses and/or other immunities provided or available to the Village under law including, but not limited to, the Local Governmental and Governmental Employees Tort Immunity Act.

21. Certified Payroll Reports

The Village of Buffalo Grove requests that the Contractor submit all certified payroll reports, including subcontractors, and EEO reporting be sent electronically in separate files for each respective Contractor/subcontractor with the weeks ending date in the file name to kjohnson@vbg.org (i.e. Contractor Name_Week Ending.pdf) as shown in the sample letter in Appendix A.

The Contractor is responsible for providing all records in accordance with the Illinois Department of Labor's (IDOL) requirements pertaining to the Prevailing Wage Act on the standard IDOL form. Only the last four (4) digits of the employee's social security number will be required; the remaining digits shall be "X" or redacted. To complete the certified payroll request for release of payment, the Contractor must supply a signed and notarized written statement that all necessary documentation has been turned over for the pay period pertaining to that payment requested.

Under P.A. 98-0328, the public body must retain copies of the certified payroll for 5 years rather than 3 years as was the case previously. The Illinois Department of Labor (IDOL) has created model certified payroll forms which can be found at the IDOL website www.illinois.gov/idol. The new form consists of three pages identified as the "certified transcript of payroll affidavit" and "certified transcript of payroll instructions". The new forms on the IDOL website can be filled in online and then printed out. Under P.A. 98-0482, contractors and subcontractors will have to provide additional information with respect to working hours, wage rates, overtime rates and fringe benefits. The IDOL's model certified payroll forms are the most current forms for compliance with P.A. 98-0482 and should be used in public works contracts.

22. Monetary Penalties

All work shall be completed in accordance with the Contract Documents in a reasonable and timely manner. For each occurrence that work is not completed in a reasonable and timely manner, a monetary penalty will be deducted from the final pay application. The Contractor shall make themselves and all subcontractors aware of the following deficiency and deductions:

| Description | Penalty | Per Occurrence |
|--|----------------|---------------------------|
| Failure to Sweep Roadway | \$2,000 | Calendar Day |
| Failure to Maintain Trench | \$250 | Calendar Day |
| Failure to Adhere to Period of Establishment Requirements | \$250 | Calendar Day |
| Distributing Unapproved Resident Notices | \$100 | Household |
| Failure to Distribute Notices in a Timely Manner | \$100 | Household |
| Failure to Distribute Notice to Resident | \$100 | Household |
| Failure to Provide Access in a Timely Manner | \$250 | Household Per Day |
| Failure to Provide Weekly Update to Engineer | \$1,000 | Per Occurrence |
| Failure to Attend a Scheduled Weekly Meeting | \$1,000 | Per Occurrence |
| Failure to Respond in a Timely Manner to a Resident | \$250 | Calendar Day |
| Failure to Ramp Roadway or Driveway | \$250 | Household/Roadway Per Day |
| Use of Fire Hydrant or Valve | \$1,000 | Each |
| Failure to Provide Maintenance of Roadway in a Timely Manner as Determined by the Engineer | \$1,000 | Calendar Day |
| Entering Private Property | \$500 | Per Occurrence |
| Failure to Provide Portable Facilities | \$100 | Calendar Day |
| Illicit Discharge of Silt or Construction Debris | \$1,000 | Per Occurrence |
| Failure to Submit Shop Drawings on Time | \$500 | Per Occurrence |
| Failure to Maintain Erosion and/or Sediment Control Devices | \$1,000 | Per Occurrence |
| Working Outside Allowable Work Hours | \$1,000 | Per Occurrence |

At the discretion of the Engineer and without notice, the Contractor shall have deducted the monetary penalty amount as listed above for each occurrence on the final pay application.

Special Provisions

1. Traffic Control and Protection

This work shall include all labor, material, and equipment necessary to furnish, install, maintain, and remove traffic control and protection measures in accordance with Section 701 of the Standard Specifications and as specified herein.

All applicable details and general conditions shall be included in the cost of this item.

Delays to the Contractor caused by complying with these requirements will be considered included in the cost of the contract, and no additional compensation will be allowed.

The Contractor shall be properly advised of the regulated weight limits within the surrounding areas of the project. No additional compensation in time nor monetary value will be allowed. The Village of Buffalo Grove Police Department requires permits for Overweight/Over Sized Trucks or Vehicles. The Contractor can find additional information at www.vbg.org/645/Truck-Enforcement or by calling (847) 459-2560.

This work will be measured in place and paid for at the contract unit price per lump sum (LS) for TRAFFIC CONTROL AND PROTECTION (SPECIAL), which shall include all labor, material, and equipment required to complete the work as specified herein.

2. Class D Patches

This work shall include all labor, material, and equipment necessary to complete the removal and replacement of hot-mix asphalt pavement and/or aggregate subbase material to a minimum depth where marked by the Engineer in accordance with Section 442 of the Standard Specifications and as specified herein.

The exact location and dimension of the patches will be determined by the Engineer in the field.

These pavement patches shall be considered 'finish' or 'surface' patches and the final replacement material shall be two (2) inches of hot-mix asphalt surface course in accordance with the Hot-Mix Asphalt Mixture Requirements table as described herein. This material shall be placed in one lift.

Hot Mix Asphalt Construction

1. Tack coat all longitudinal joints (hot and cold) and curb faces.
2. Pneumatic tired roller is required on all lifts, all mixes, except surface courses.
3. Auger extensions are required on all lifts, all mixes.
4. Reverse augers must be installed properly.
5. Roll (compact) the confined and curb line longitudinal joint by overlapping by 6" from the hot to cold side of mat and / or curbing.
6. Paving of the full roadway width shall be completed at the end of each day. Longitudinal joints shall be closed daily and within one truck load of HMA to prevent cold joints. Any violation shall require saw cutting edge back 3" to expose straight edge, shall be tack coated twice, and will be straight and uniform.
 - a) The Village may consider allowing a full road closure with detours at the Contractors request in order to allow for full width surface paving to facilitate this requirement on 24' wide roads. However, detour and/or additional traffic control devises will be at Contractors expense.
7. Asphalt along the curb line shall be compacted such that the asphalt is 1/4" above the flag of gutter.
8. Temporary ramps, regardless of material, shall be removed prior to placement of the next pavement course.

This work will be measured in place and paid for at the contract unit price per square yard (SY) for CLASS D PATCHES, of the type and depth specified, (SPECIAL), which shall include all labor, material, and equipment required to complete the work as specified herein.

IDOT District One - Special Provisions

1. Friction Aggregate (D-1)

Effective: January 1, 2011

Revised: April 29, 2016

Revise Article 1004.03(a) of the Standard Specifications to read:

"1004.03 Coarse Aggregate for Hot-Mix Asphalt (HMA). The aggregate shall be according to Article 1004.01 and the following.

(a) Description. The coarse aggregate for HMA shall be according to the following table.

| Use | Mixture | Aggregates Allowed |
|------------------------------|--|--|
| Class A | Seal or Cover | <u>Allowed Alone or in Combination</u> ^{5/} : Gravel Crushed Gravel Carbonate Crushed Stone Crystalline Crushed Stone Crushed Sandstone Crushed Slag (ACBF) Crushed Steel Slag Crushed Concrete |
| HMA Low ESAL | Stabilized Subbase or Shoulders | <u>Allowed Alone or in Combination</u> ^{5/} : Gravel Crushed Gravel Carbonate Crushed Stone Crystalline Crushed Stone Crushed Sandstone Crushed Slag (ACBF) Crushed Steel Slag ^{1/} Crushed Concrete |
| HMA High ESAL Low ESAL | Binder IL-19.0 or IL-19.0L SMA Binder | <u>Allowed Alone or in Combination</u> ^{5/ 6/} : Crushed Gravel Carbonate Crushed Stone ^{2/} Crystalline Crushed Stone Crushed Sandstone Crushed Slag (ACBF) Crushed Concrete ^{3/} |
| HMA High ESAL Low ESAL | C Surface and Leveling Binder IL-9.5 or IL-9.5L SMA Ndesign 50 Surface | <u>Allowed Alone or in Combination</u> ^{5/} : Crushed Gravel Carbonate Crushed Stone ^{2/} Crystalline Crushed Stone Crushed Sandstone Crushed Slag (ACBF) Crushed Steel Slag ^{4/} Crushed Concrete ^{3/} |

| Use | Mixture | Aggregates Allowed | |
|---|---|---|---|
| HMA High ESAL | D Surface and Leveling Binder IL-9.5 SMA Ndesign 50 Surface | <u>Allowed Alone or in Combination</u> ^{5/} : Crushed Gravel Carbonate Crushed Stone (other than Limestone) ^{2/} Crystalline Crushed Stone Crushed Sandstone Crushed Slag (ACBF) Crushed Steel Slag ^{4/} Crushed Concrete ^{3/} | |
| | | <u>Other Combinations Allowed:</u> | |
| | | <i>Up to...</i> | <i>With...</i> |
| | | 25% Limestone | Dolomite |
| | | 50% Limestone | Any Mixture D aggregate other than Dolomite |
| 75% Limestone | Crushed Slag (ACBF) or Crushed Sandstone | | |
| HMA High ESAL | E Surface IL-9.5 SMA Ndesign 80 Surface | <u>Allowed Alone or in Combination</u> ^{5/ 6/} : Crystalline Crushed Stone Crushed Sandstone Crushed Slag (ACBF) Crushed Steel Slag No Limestone. | |
| | | <u>Other Combinations Allowed:</u> | |
| | | <i>Up to...</i> | <i>With...</i> |
| | | 50% Dolomite ^{2/} | Any Mixture E aggregate |
| | | 75% Dolomite ^{2/} | Crushed Sandstone, Crushed Slag (ACBF), Crushed Steel Slag, or Crystalline Crushed Stone |
| 75% Crushed Gravel ^{2/} or Crushed Concrete ^{3/} | Crushed Sandstone, Crystalline Crushed Stone, Crushed Slag (ACBF), or Crushed Steel Slag | | |
| HMA High ESAL | F Surface IL-9.5 SMA Ndesign 80 Surface | <u>Allowed Alone or in Combination</u> ^{5/ 6/} : Crystalline Crushed Stone Crushed Sandstone Crushed Slag (ACBF) Crushed Steel Slag No Limestone. | |
| | | <u>Other Combinations Allowed:</u> <i>Up to...</i> <i>With...</i> | |

| Use | Mixture | Aggregates Allowed | |
|-----|---------|---|---|
| | | 50% Crushed Gravel ^{2/} , Crushed Concrete ^{3/} , or Dolomite ^{2/} | Crushed Sandstone, Crushed Slag (ACBF), Crushed Steel Slag, or Crystalline Crushed Stone |

- 1/ Crushed steel slag allowed in shoulder surface only.
- 2/ Carbonate crushed stone (limestone) and/or crushed gravel shall not be used in SMA Ndesign 80. In SMA Ndesign 50, carbonate crushed stone shall not be blended with any of the other aggregates allowed alone in Ndesign 50 SMA binder or Ndesign 50 SMA surface.
- 3/ Crushed concrete will not be permitted in SMA mixes.
- 4/ Crushed steel slag shall not be used as leveling binder.
- 5/ When combinations of aggregates are used, the blend percent measurements shall be by volume."
- 6/ Combining different types of aggregate will not be permitted in SMA Ndesign 80."

2. HMA Mixture Design Requirements (D-1)

Effective: January 1, 2013

Revised: January 1, 2018

1) Design Composition and Volumetric Requirements

Revise the table in Article 406.06(d) of the Standard Specifications to read:

| "MINIMUM COMPACTED LIFT THICKNESS | |
|-----------------------------------|---------------------|
| Mixture Composition | Thickness, in. (mm) |
| IL-4.75 | 3/4 (19) |
| SMA-9.5, IL-9.5, IL-9.5L | 1 1/2 (38) |
| SMA-12.5 | 2 (50) |
| IL-19.0, IL-19.0L | 2 1/4 (57)" |

Revise the table in Article 1004.03(c) of the Standard Specifications to read:

| "Use | Size/Application | Gradation No. |
|-------------------|--------------------------------------|-----------------------------------|
| Class A-1, 2, & 3 | 3/8 in. (10 mm) Seal | CA 16 |
| Class A-1 | 1/2 in. (13 mm) Seal | CA 15 |
| Class A-2 & 3 | Cover | CA 14 |
| HMA High ESAL | IL-19.0 | CA 11 ^{1/} |
| | IL-9.5 | CA 16, CA 13 ^{3/} |
| HMA Low ESAL | IL-19.0L | CA 11 ^{1/} |
| | IL-9.5L | CA 16 |
| | Stabilized Subbase or Shoulders | |
| SMA ^{2/} | 1/2 in. (12.5mm) Binder & Surface | CA13 ^{3/} , CA14 or CA16 |
| | IL 9.5 | CA16, CA 13 ^{3/} |
| | Surface | |

1/ CA 16 or CA 13 may be blended with the gradations listed.

2/ The coarse aggregates used shall be capable of being combined with stone sand, slag sand, or steel slag sand meeting the FA/FM 20 gradation and mineral filler to meet the approved mix design and the mix requirements noted herein.

3/ CA 13 shall be 100 percent passing the 1/2 in. (12.5mm) sieve.

Revise Article 1004.03(e) of the Supplemental Specifications to read:

“(e) Absorption. For SMA the coarse aggregate shall also have water absorption ≤ 2.0 percent.”

Revise the last paragraph of Article 1102.01 (a) (5) of the Standard Specifications to read:

“IL-4.75 and Stone Matrix Asphalt (SMA) mixtures which contain aggregate having absorptions greater than or equal to 2.0 percent, or which contain steel slag sand, shall have minimum surge bin storage plus haul time of 1.5 hours.”

Revise the nomenclature table in Article 1030.01 of the Standard Specifications to read:

| | |
|------------|--|
| “High ESAL | IL-19.0 binder; IL-9.5 surface; IL-4.75; SMA-12.5, SMA-9.5 |
| Low ESAL | IL-19.0L binder; IL-9.5L surface; Stabilized Subbase (HMA) ^{1/} ; HMA Shoulders ^{2/} |

1/ Uses 19.0L binder mix.

2/ Uses 19.0L for lower lifts and 9.5L for surface lift.”

Revise Article 1030.02 of the Standard Specifications and Supplemental Specifications to read:

“**1030.02 Materials.** Materials shall be according to the following.

| Item | Article/Section |
|--|-----------------|
| (a) Coarse Aggregate | 1004.03 |
| (b) Fine Aggregate | 1003.03 |
| (c) RAP Material | 1031 |
| (d) Mineral Filler | 1011 |
| (e) Hydrated Lime | 1012.01 |
| (f) Slaked Quicklime (Note 1) | |
| (g) Performance Graded Asphalt Binder (Note 2) | 1032 |
| (h) Fibers (Note 3) | |
| (i) Warm Mix Asphalt (WMA) Technologies (Note 4) | |

Note 1. Slaked quicklime shall be according to ASTM C 5.

Note 2. The asphalt binder shall be an SBS PG 76-28 when the SMA is used on a full-depth asphalt pavement and SBS PG 76-22 when used as an overlay, except where modified herein. The asphalt binder shall be an Elvaloy or SBS PG 76-22 for IL-4.75, except where modified herein. The elastic recovery shall be a minimum of 80.

Note 3. A stabilizing additive such as cellulose or mineral fiber shall be added to the SMA mixture according to Illinois Modified AASHTO M 325. The stabilizing additive shall meet the Fiber Quality Requirements listed in Illinois Modified AASHTO M 325. Prior to approval and use of fibers, the Contractor shall submit a notarized certification by the producer of these materials stating they meet these requirements. Reclaimed Asphalt Shingles (RAS) may be used in Stone Matrix Asphalt (SMA) mixtures designed with an SBA polymer modifier as a fiber additive if the mix design with RAS included meets AASHTO T305 requirements. The RAS shall be from a certified source that produces either Type 1 or Type 2. Material shall meet requirements noted herein and the actual dosage rate will be determined by the Engineer.

Note 4. Warm mix additives or foaming processes shall be selected from the current Bureau of Materials and Physical Research Approved List, “Warm Mix Asphalt Technologies”.

Revise Article 1030.04(a)(1) of the Standard Specifications and the Supplemental Specifications to read:

*(1) High ESAL Mixtures. The Job Mix Formula (JMF) shall fall within the following limits.

| High ESAL, MIXTURE COMPOSITION (% PASSING) ^{1/} | | | | | | | | | | |
|--|------------|-----|------------------------------|-------------------|-----------------------------|-------------------|------------------|------------------|------------|-----------------|
| Sieve Size | IL-19.0 mm | | SMA ^{4/} IL-12.5 mm | | SMA ^{4/} IL-9.5 mm | | IL-9.5 mm | | IL-4.75 mm | |
| | min | max | min | max | min | max | min | max | min | max |
| 1 1/2 in (37.5 mm) | | | | | | | | | | |
| 1 in. (25 mm) | | 100 | | | | | | | | |
| 3/4 in. (19 mm) | 90 | 100 | | 100 | | | | | | |
| 1/2 in. (12.5 mm) | 75 | 89 | 80 | 100 | | 100 | | 100 | | 100 |
| 3/8 in. (9.5 mm) | | | | 65 | 90 | 100 | 90 | 100 | | 100 |
| #4 (4.75 mm) | 40 | 60 | 20 | 30 | 36 | 50 | 34 | 69 | 90 | 100 |
| #8 (2.36 mm) | 20 | 42 | 16 | 24 ^{5/} | 16 | 32 ^{5/} | 34 ^{6/} | 52 ^{2/} | 70 | 90 |
| #16 (1.18 mm) | 15 | 30 | | | | | 10 | 32 | 50 | 65 |
| #30 (600 μm) | | | 12 | 16 | 12 | 18 | | | | |
| #50 (300 μm) | 6 | 15 | | | | | 4 | 15 | 15 | 30 |
| #100 (150 μm) | 4 | 9 | | | | | 3 | 10 | 10 | 18 |
| #200 (75 μm) | 3 | 6 | 7.0 | 9.0 ^{3/} | 7.5 | 9.5 ^{3/} | 4 | 6 | 7 | 9 ^{3/} |
| Ratio Dust/Asphalt Binder | | 1.0 | | 1.5 | | 1.5 | | 1.0 | | 1.0 |

- 1/ Based on percent of total aggregate weight.
- 2/ The mixture composition shall not exceed 44 percent passing the #8 (2.36 mm) sieve for surface courses with Ndesign = 90.
- 3/ Additional minus No. 200 (0.075 mm) material required by the mix design shall be mineral filler, unless otherwise approved by the Engineer.
- 4/ The maximum percent passing the #635 (20 μm) sieve shall be ≤ 3 percent.
- 5/ When establishing the Adjusted Job Mix Formula (AJMF) the percent passing the #8 (2.36 mm) sieve shall not be adjusted above the percentage stated on the table.
- 6/ When establishing the Adjusted Job Mix Formula (AJMF) the percent passing the #8 (2.36 mm) sieve shall not be adjusted below 34 percent.

Revise Article 1030.04(b)(1) of the Standard Specifications to read:

"(1) High ESAL Mixtures. The target value for the air voids of the HMA shall be 4.0 percent and for IL-4.75 it shall be 3.5 percent at the design number of gyrations. The VMA and VFA of the HMA design shall be based on the nominal maximum size of the aggregate in the mix, and shall conform to the following requirements.

| VOLUMETRIC REQUIREMENTS High ESAL | | | | |
|--------------------------------------|---|--------|-----------------------|---|
| Ndesign | Voids in the Mineral Aggregate (VMA), % minimum | | | Voids Filled with Asphalt Binder (VFA), % |
| | IL-19.0 | IL-9.5 | IL-4.75 ^{1/} | |
| 50 | 13.5 | 15.0 | 18.5 | 65 – 78 ^{2/} |
| 70 | | | | 65 - 75 |
| 90 | | | | |

1/ Maximum Draindown for IL-4.75 shall be 0.3 percent

2/ VFA for IL-4.75 shall be 72-85 percent"

Replace Article 1030.04(b)(3) of the Standard Specifications with the following:

"(3) SMA Mixtures.

| Volumetric Requirements SMA ^{1/} | | | |
|--|---------------------------|--|------------------------------------|
| Ndesign | Design Air Voids Target % | Voids in the Mineral Aggregate (VMA), % min. | Voids Filled with Asphalt (VFA), % |
| 80 ^{4/} | 3.5 | 17.0 ^{2/} | 75 - 83 |
| | | 16.0 ^{3/} | |

1/ Maximum draindown shall be 0.3 percent. The draindown shall be determined at the JMF asphalt binder content at the mixing temperature plus 30 °F.

2/ Applies when specific gravity of coarse aggregate is ≥ 2.760.

3/ Applies when specific gravity of coarse aggregate is < 2.760.

4/ Blending of different types of aggregate will not be permitted. For surface course, the coarse aggregate can be crushed steel slag, crystalline crushed stone or crushed sandstone. For binder course, coarse aggregate shall be crushed stone (dolomite), crushed gravel, crystalline crushed stone, or crushed sandstone.

Add to the end of Article 1030.05 (d) (2) a. of the Standard Specifications:

"During production, the Contractor shall test SMA mixtures for draindown according to AASHTO T305 at a frequency of 1 per day of production."

Delete last sentence of the second paragraph of Article 1102.01(a) (4) b. 2.

Add to the end of Article 1102.01 (a) (4) b. 2.:

"As an option, collected dust (baghouse) may be used in lieu of manufactured mineral filler according to the following:

- (a.) Sufficient collected dust (baghouse) is available for production of the SMA mix for the entire project.
- (b.) A mix design was prepared based on collected dust (baghouse).

2) Design Verification and Production

Revise Article 1030.04 (d) of the Standard Specifications to read:

"(d) Verification Testing. High ESAL, IL-4.75, and SMA mix designs submitted for verification will be tested to ensure that the resulting mix designs will pass the required criteria for the Hamburg Wheel Test (IL mod AASHTO T-324) and the Tensile Strength Test (IL mod AASHTO T-283). The Department will perform a verification test on gyratory specimens compacted by the Contractor. If the mix fails the Department's verification test, the Contractor shall make the necessary changes to the mix and resubmit compacted specimens to the Department for verification. If the mix fails again, the mix design will be rejected.

All new and renewal mix designs will be required to be tested, prior to submittal for Department verification and shall meet the following requirements:

- (1)Hamburg Wheel Test criteria. The maximum allowable rut depth shall be 0.5 in. (12.5 mm). The minimum number of wheel passes at the 0.5 in. (12.5 mm) rut depth criteria shall be based on the high temperature binder grade of the mix as specified in the mix requirements table of the plans.

Illinois Modified AASHTO T 324 Requirements ^{1/}

| Asphalt Binder Grade | # Repetitions | Max Rut Depth (mm) |
|-----------------------|---------------|--------------------|
| PG 70 -XX (or higher) | 20,000 | 12.5 |
| PG 64 -XX (or lower) | 10,000 | 12.5 |

^{1/} When produced at temperatures of 275 ± 5 °F (135 ± 3 °C) or less, loose Warm Mix Asphalt shall be oven aged at 270 ± 5 °F (132 ± 3 °C) for two hours prior to gyratory compaction of Hamburg Wheel specimens.

Note: For SMA Designs (N-80) the maximum rut depth is 6.0 mm at 20,000 repetitions.
 For IL 4.75mm Designs (N-50) the maximum rut depth is 9.0mm at 15,000 repetitions.

- (2) Tensile Strength Criteria. The minimum allowable conditioned tensile strength shall be 60 psi (415 kPa) for non-polymer modified performance graded (PG) asphalt binder and 80 psi (550 kPa) for polymer modified PG asphalt binder. The maximum allowable unconditioned tensile strength shall be 200 psi (1380 kPa)."

Production Testing. Revise first paragraph of Article 1030.06(a) of the Standard Specifications to read:

"(a) High ESAL, IL-4.75, WMA, and SMA Mixtures. For each contract, a 300 ton (275 metric tons) test strip, except for SMA mixtures it will be 400 ton (363 metric ton), will be required at the beginning of HMA production for each mixture at the beginning of each construction year according to the Manual of Test Procedures for Materials "Hot Mix Asphalt Test Strip Procedures". At the request of the Producer, the Engineer may waive the test strip if previous construction during the current construction year has demonstrated the constructability of the mix using Department test results."

Add the following after the sixth paragraph in Article 1030.06 (a) of the Standard Specifications:

"The Hamburg Wheel test shall also be conducted on all HMA mixtures from a sample taken within the first 500 tons (450 metric tons) on the first day of production or during start up with a split reserved for the Department. The mix sample shall be tested according to the Illinois Modified AASHTO T 324 and shall meet the requirements specified herein. Mix production shall not exceed 1500 tons (1350 metric tons) or one day's production, whichever comes first, until the testing is completed and the mixture is found to be in conformance. The requirement to cease mix production may be waived if the plant produced mixture demonstrates conformance prior to start of mix production for a contract.

If the mixture fails to meet the Hamburg Wheel criteria, no further mixture will be accepted until the Contractor takes such action as is necessary to furnish a mixture meeting the criteria”

Method of Measurement:

Add the following after the fourth paragraph of Article 406.13 (b):

“The plan quantities of SMA mixtures shall be adjusted using the actual approved binder and surface Mix Design’s G_{mb}.”

Basis of Payment.

Replace the fourth paragraph of Article 406.14 of the Standard Specifications with the following:

“Stone matrix asphalt will be paid for at the contract unit price per ton (metric ton) for POLYMERIZED HOT-MIX ASPHALT SURFACE COURSE, STONE MATRIX ASPHALT, of the mixture composition and Ndesign specified; and POLYMERIZED HOT-MIX ASPHALT BINDER COURSE, STONE MATRIX ASPHALT, of the mixture composition and Ndesign specified.”

3. Reclaimed Asphalt Pavement and Reclaimed Asphalt Shingles (D-1)

Effective: November 1, 2012

Revised: January 1, 2018

Revise Section 1031 of the Standard Specifications to read:

***SECTION 1031. RECLAIMED ASPHALT PAVEMENT AND RECLAIMED ASPHALT SHINGLES**

1031.01 Description. Reclaimed asphalt pavement and reclaimed asphalt shingles shall be according to the following.

- (a) Reclaimed Asphalt Pavement (RAP). RAP is the material resulting from cold milling or crushing an existing hot-mix asphalt (HMA) pavement. RAP will be considered processed FRAP after completion of both crushing and screening to size. The Contractor shall supply written documentation that the RAP originated from routes or airfields under federal, state, or local agency jurisdiction.
- (b) Reclaimed Asphalt Shingles (RAS). Reclaimed asphalt shingles (RAS). RAS is from the processing and grinding of preconsumer or post-consumer shingles. RAS shall be a clean and uniform material with a maximum of 0.5 percent unacceptable material, as defined in Central Bureau of Materials Policy Memorandum, "Reclaimed Asphalt Shingle (RAS) Sources", by weight of RAS. All RAS used shall come from a Central Bureau of Materials approved processing facility where it shall be ground and processed to 100 percent passing the 3/8 in. (9.5 mm) sieve and 90 percent passing the #4 (4.75 mm) sieve. RAS shall meet the testing requirements specified herein. In addition, RAS shall meet the following Type 1 or Type 2 requirements.
 - (1) Type 1. Type 1 RAS shall be processed, preconsumer asphalt shingles salvaged from the manufacture of residential asphalt roofing shingles.
 - (2) Type 2. Type 2 RAS shall be processed post-consumer shingles only, salvaged from residential, or four unit or less dwellings not subject to the National Emission Standards for Hazardous Air Pollutants (NESHAP).

1031.02 Stockpiles. RAP and RAS stockpiles shall be according to the following.

- (a) RAP Stockpiles. The Contractor shall construct individual, sealed RAP stockpiles meeting one of the following definitions. Additional processed RAP (FRAP) shall be stockpiled in a separate working pile, as designated in the QC Plan, and only added to the sealed stockpile when test results for the working pile are complete and are found to meet tolerances specified herein for the original sealed FRAP stockpile. Stockpiles shall be sufficiently separated to prevent intermingling at the base. All stockpiles (including unprocessed RAP and FRAP) shall be identified by signs indicating the type as listed below (i.e. "Non- Quality, FRAP - #4 or Type 2 RAS", etc...).

- (1) Fractionated RAP (FRAP). FRAP shall consist of RAP from Class I, HMA (High and Low ESAL) or equivalent mixtures. The coarse aggregate in FRAP shall be crushed aggregate and may represent more than one aggregate type and/or quality but shall be at least C quality. All FRAP shall be processed prior to testing and sized into fractions with the separation occurring on or between the #4 (4.75 mm) and 1/2 in. (12.5 mm) sieves. Agglomerations shall be minimized such that 100 percent of the RAP in the coarse fraction shall pass the maximum sieve size specified for the mix the FRAP will be used in.
- (2) Restricted FRAP (B quality) stockpiles shall consist of RAP from Class I, HMA (High ESAL), or HMA (High ESAL). If approved by the Engineer, the aggregate from a maximum 3.0 in. (75 mm) single combined pass of surface/binder milling will be classified as B quality. All millings from this application will be processed into FRAP as described previously.
- (3) Conglomerate. Conglomerate RAP stockpiles shall consist of RAP from Class I, HMA (High and Low ESAL) or equivalent mixtures. The coarse aggregate in this RAP shall be crushed aggregate and may represent more than one aggregate type and/or quality but shall be at least C quality. This RAP may have an inconsistent gradation and/or asphalt binder content prior to processing. All conglomerate RAP shall be processed (FRAP) prior to testing. Conglomerate RAP stockpiles shall not contain steel slag or other expansive material as determined by the Department.
- (4) Conglomerate "D" Quality (DQ). Conglomerate DQ RAP stockpiles shall consist of RAP from HMA shoulders, bituminous stabilized subbases or HMA (Low ESAL)/HMA (Low ESAL) IL-19.0L binder mixture. The coarse aggregate in this RAP may be crushed or round but shall be at least D quality. This RAP may have an inconsistent gradation and/or asphalt binder content. Conglomerate DQ RAP stockpiles shall not contain steel slag or other expansive material as determined by the Department.
- (5) Non-Quality. RAP stockpiles that do not meet the requirements of the stockpile categories listed above shall be classified as "Non-Quality".

RAP or FRAP containing contaminants, such as earth, brick, sand, concrete, sheet asphalt, bituminous surface treatment (i.e. chip seal), pavement fabric, joint sealants, plant cleanout etc., will be unacceptable unless the contaminants are removed to the satisfaction of the Engineer. Sheet asphalt shall be stockpiled separately.

- (b) RAS Stockpiles. Type 1 and Type 2 RAS shall be stockpiled separately and shall be sufficiently separated to prevent intermingling at the base. Each stockpile shall be signed indicating what type of RAS is present.

However, a RAS source may submit a written request to the Department for approval to blend mechanically a specified ratio of Type 1 RAS with Type 2 RAS. The source will not be permitted to change the ratio of the blend without the Department prior written approval. The Engineer's written approval will be required, to mechanically blend RAS with any fine aggregate produced under the AGCS, up to an equal weight of RAS, to improve workability. The fine aggregate shall be "B Quality" or better from an approved Aggregate Gradation Control System source. The fine aggregate shall be one that is approved for use in the HMA mixture and accounted for in the mix design and during HMA production.

Records identifying the shingle processing facility supplying the RAS, RAS type, and lot number shall be maintained by project contract number and kept for a minimum of three years.

1031.03 Testing. FRAP and RAS testing shall be according to the following.

- (a) FRAP Testing. When used in HMA, the FRAP shall be sampled and tested either during processing or after stockpiling. It shall also be sampled during HMA production.
 - (1) During Stockpiling. For testing during stockpiling, washed extraction samples shall be run at the minimum frequency of one sample per 500 tons (450 metric tons) for the first 2000 tons (1800 metric tons) and one sample per 2000 tons (1800 metric tons) thereafter. A minimum of five tests shall be required for stockpiles less than 4000 tons (3600 metric tons).
 - (2) Incoming Material. For testing as incoming material, washed extraction samples shall be run at a minimum frequency of one sample per 2000 tons (1800 metric tons) or once per week, whichever comes first.

- (3) After Stockpiling. For testing after stockpiling, the Contractor shall submit a plan for approval to the District proposing a satisfactory method of sampling and testing the RAP/FRAP pile either in-situ or by restockpiling. The sampling plan shall meet the minimum frequency required above and detail the procedure used to obtain representative samples throughout the pile for testing.

Before extraction, each field sample of FRAP, shall be split to obtain two samples of test sample size. One of the two test samples from the final split shall be labeled and stored for Department use. The Contractor shall extract the other test sample according to Department procedure. The Engineer reserves the right to test any sample (split or Department-taken) to verify Contractor test results.

- (b) RAS Testing. RAS shall be sampled and tested during stockpiling according to Central Bureau of Materials Policy Memorandum, "Reclaimed Asphalt Shingle (RAS) Sources". The Contractor shall also sample as incoming material at the HMA plant.

(1) During Stockpiling. Washed extraction and testing for unacceptable materials shall be run at the minimum frequency of one sample per 200 tons (180 metric tons) for the first 1000 tons (900 metric tons) and one sample per 1000 tons (900 metric tons) thereafter. A minimum of five samples are required for stockpiles less than 1000 tons (900 metric tons). Once a ≤ 1000 ton (900 metric ton), five-sample/test stockpile has been established it shall be sealed. Additional incoming RAS shall be in a separate working pile as designated in the Quality Control plan and only added to the sealed stockpile when the test results of the working pile are complete and are found to meet the tolerances specified herein for the original sealed RAS stockpile.

(2) Incoming Material. For testing as incoming material at the HMA plant, washed extraction shall be run at the minimum frequency of one sample per 250 tons (227 metric tons). A minimum of five samples are required for stockpiles less than 1000 tons (900 metric tons). The incoming material test results shall meet the tolerances specified herein.

The Contractor shall obtain and make available all test results from start of the initial stockpile sampled and tested at the shingle processing facility in accordance with the facility's QC Plan.

Before extraction, each field sample shall be split to obtain two samples of test sample size. One of the two test samples from the final split shall be labeled and stored for Department use. The Contractor shall extract the other test sample according to Department procedures. The Engineer reserves the right to test any sample (split or Department-taken) to verify Contractor test results.

1031.04 Evaluation of Tests. Evaluation of test results shall be according to the following.

- (a) Evaluation of FRAP Test Results. All test results shall be compiled to include asphalt binder content, gradation and, when applicable (for slag), G_{mm} . A five test average of results from the original pile will be used in the mix designs. Individual extraction test results run thereafter, shall be compared to the average used for the mix design, and will be accepted if within the tolerances listed below.

| Parameter | FRAP |
|-----------------------------|--------------------------|
| No. 4 (4.75 mm) | $\pm 6 \%$ |
| No. 8 (2.36 mm) | $\pm 5 \%$ |
| No. 30 (600 μm) | $\pm 5 \%$ |
| No. 200 (75 μm) | $\pm 2.0 \%$ |
| Asphalt Binder | $\pm 0.3 \%$ |
| G_{mm} | ± 0.03 ^{1/} |

1/ For stockpile with slag or steel slag present as determined in the current Manual of Test Procedures Appendix B 21, "Determination of Reclaimed Asphalt Pavement Aggregate Bulk Specific Gravity".

If any individual sieve and/or asphalt binder content tests are out of the above tolerances when compared to the average used for the mix design, the FRAP stockpile shall not be used in Hot-Mix Asphalt unless the FRAP representing those tests is removed from the stockpile. All test data and acceptance ranges shall be sent to the District for evaluation.

The Contractor shall maintain a representative moving average of five tests to be used for Hot-Mix Asphalt production.

With the approval of the Engineer, the ignition oven may be substituted for extractions according to the ITP, "Calibration of the Ignition Oven for the Purpose of Characterizing Reclaimed Asphalt Pavement (RAP)" or Illinois Modified AASHTO T-164-11, Test Method A.

- (b) Evaluation of RAS Test Results. All of the test results, with the exception of percent unacceptable materials, shall be compiled and averaged for asphalt binder content and gradation. A five test average of results from the original pile will be used in the mix designs. Individual test results run thereafter, when compared to the average used for the mix design, will be accepted if within the tolerances listed below.

| Parameter | RAS |
|------------------------|---------|
| No. 8 (2.36 mm) | ± 5 % |
| No. 16 (1.18 mm) | ± 5 % |
| No. 30 (600 µm) | ± 4 % |
| No. 200 (75 µm) | ± 2.5 % |
| Asphalt Binder Content | ± 2.0 % |

If any individual sieve and/or asphalt binder content tests are out of the above tolerances when compared to the average used for the mix design, the RAS shall not be used in Hot-Mix Asphalt unless the RAS representing those tests is removed from the stockpile. All test data and acceptance ranges shall be sent to the District for evaluation.

- (c) Quality Assurance by the Engineer. The Engineer may witness the sampling and splitting conduct assurance tests on split samples taken by the Contractor for quality control testing a minimum of once a month.

The overall testing frequency will be performed over the entire range of Contractor samples for asphalt binder content and gradation. The Engineer may select any or all split samples for assurance testing. The test results will be made available to the Contractor as soon as they become available.

The Engineer will notify the Contractor of observed deficiencies.

Differences between the Contractor's and the Engineer's split sample test results will be considered acceptable if within the following limits.

| Test Parameter | Acceptable Limits of Precision | |
|--------------------------|--------------------------------|------|
| | FRAP | RAS |
| % Passing: ^{1/} | | |
| 1/2 in. | 5.0% | |
| No. 4 | 5.0% | |
| No. 8 | 3.0% | 4.0% |
| No. 30 | 2.0% | 4.0% |
| No. 200 | 2.2% | 4.0% |
| Asphalt Binder Content | 0.3% | 3.0% |
| G _{mm} | 0.030 | |

1/ Based on washed extraction.

In the event comparisons are outside the above acceptable limits of precision, the Engineer will immediately investigate.

- (d) Acceptance by the Engineer. Acceptable of the material will be based on the validation of the Contractor's quality control by the assurance process.

1031.05 Quality Designation of Aggregate in RAP and FRAP.

- (a) RAP. The aggregate quality of the RAP for homogeneous, conglomerate, and conglomerate "D" quality stockpiles shall be set by the lowest quality of coarse aggregate in the RAP stockpile and are designated as follows.
- (1) RAP from Class I, HMA (High ESAL), or (Low ESAL) IL-9.5L surface mixtures are designated as containing Class B quality coarse aggregate.
 - (2) RAP from HMA (Low ESAL) IL-19.0L binder mixture is designated as Class D quality coarse aggregate.
 - (3) RAP from Class I, HMA (High ESAL) binder mixtures, bituminous base course mixtures, and bituminous base course widening mixtures are designated as containing Class C quality coarse aggregate.
 - (4) RAP from bituminous stabilized subbase and BAM shoulders are designated as containing Class D quality coarse aggregate.
- (b) FRAP. If the Engineer has documentation of the quality of the FRAP aggregate, the Contractor shall use the assigned quality provided by the Engineer.

If the quality is not known, the quality shall be determined as follows. Fractionated RAP stockpiles containing plus #4 (4.75 mm) sieve coarse aggregate shall have a maximum tonnage of 5,000 tons (4,500 metric tons). The Contractor shall obtain a representative sample witnessed by the Engineer. The sample shall be a minimum of 50 lb (25 kg). The sample shall be extracted according to Illinois Modified AASHTO T 164 by a consultant laboratory prequalified by the Department for the specified testing. The consultant laboratory shall submit the test results along with the recovered aggregate to the District Office. The cost for this testing shall be paid by the Contractor. The District will forward the sample to the Central Bureau of Materials Aggregate Lab for MicroDeval Testing, according to ITP 327. A maximum loss of 15.0 percent will be applied for all HMA applications. The fine aggregate portion of the fractionated RAP shall not be used in any HMA mixtures that require a minimum of "B" quality aggregate or better, until the coarse aggregate fraction has been determined to be acceptable thru a MicroDeval Testing.

1031.06 Use of FRAP and/or RAS in HMA. The use of FRAP and/or RAS shall be the Contractor's option when constructing HMA in all contracts.

- (a) FRAP. The use of FRAP in HMA shall be as follows.
- (1) Coarse Aggregate Size (after extraction). The coarse aggregate in all FRAP shall be equal to or less than the nominal maximum size requirement for the HMA mixture to be produced.
 - (2) Steel Slag Stockpiles. FRAP stockpiles containing steel slag or other expansive material, as determined by the Department, shall be homogeneous and will be approved for use in HMA (High ESAL and Low ESAL) mixtures regardless of lift or mix type.
 - (3) Use in HMA Surface Mixtures (High and Low ESAL). FRAP stockpiles for use in HMA surface mixtures (High and Low ESAL) shall have coarse aggregate that is Class B quality or better. FRAP shall be considered equivalent to limestone for frictional considerations unless produced/screened to minus 3/8 inch.
 - (4) Use in HMA Binder Mixtures (High and Low ESAL), HMA Base Course, and HMA Base Course Widening. FRAP stockpiles for use in HMA binder mixtures (High and Low ESAL), HMA base course, and HMA base course widening shall be FRAP in which the coarse aggregate is Class C quality or better.
 - (5) Use in Shoulders and Subbase. FRAP stockpiles for use in HMA shoulders and stabilized subbase (HMA) shall be FRAP, Restricted FRAP, conglomerate, or conglomerate DQ.
- (b) RAS. RAS meeting Type 1 or Type 2 requirements will be permitted in all HMA applications as specified herein.

- (c) FRAP and/or RAS Usage Limits. Type 1 or Type 2 RAS may be used alone or in conjunction with FRAP in HMA mixtures up to a maximum of 5.0 percent by weight of the total mix.

When FRAP is used alone or FRAP is used in conjunction with RAS, the percent of virgin asphalt binder replacement (ABR) shall not exceed the amounts indicated in the table below for a given N Design.

Max Asphalt Binder Replacement for FRAP with RAS Combination

| HMA Mixtures ^{1/2/4/} | Maximum % ABR | | |
|--------------------------------|------------------------|---------|--------------------------------|
| | Binder/Leveling Binder | Surface | Polymer Modified ^{3/} |
| 30L | 50 | 40 | 30 |
| 50 | 40 | 35 | 30 |
| 70 | 40 | 30 | 30 |
| 90 | 40 | 30 | 30 |
| 4.75 mm N-50 | | | 40 |
| SMA N-80 | | | 30 |

- 1/ For Low ESAL HMA shoulder and stabilized subbase, the percent asphalt binder replacement shall not exceed 50 % of the total asphalt binder in the mixture.
- 2/ When the binder replacement exceeds 15 % for all mixes, except for SMA and IL-4.75, the high and low virgin asphalt binder grades shall each be reduced by one grade (i.e. 25 % binder replacement using a virgin asphalt binder grade of PG64-22 will be reduced to a PG58-28). When constructing full depth HMA and the ABR is less than 15 %, the required virgin asphalt binder grade shall be PG64-28.
- 3/ When the ABR for SMA or IL-4.75 is 15 % or less, the required virgin asphalt binder shall be SBS PG76-22 and the elastic recovery shall be a minimum of 80. When the ABR for SMA or IL-4.75 exceeds 15%, the virgin asphalt binder grade shall be SBS PG70-28 and the elastic recovery shall be a minimum of 80.
- 4/ When FRAP or RAS is used alone, the maximum percent asphalt binder replacement designated on the table shall be reduced by 10 %.

1031.07 HMA Mix Designs. At the Contractor's option, HMA mixtures may be constructed utilizing RAP/FRAP and/or RAS material meeting the detailed requirements specified herein.

- (a) FRAP and/or RAS. FRAP and /or RAS mix designs shall be submitted for verification. If additional FRAP or RAS stockpiles are tested and found to be within tolerance, as defined under "Evaluation of Tests" herein, and meet all requirements herein, the additional FRAP or RAS stockpiles may be used in the original design at the percent previously verified.
- (b) RAS. Type 1 and Type 2 RAS are not interchangeable in a mix design.

The RAP, FRAP and RAS stone specific gravities (G_{sb}) shall be according to the "Determination of Aggregate Bulk (Dry) Specific Gravity (G_{sb}) or Reclaimed Asphalt Pavement (RAP) and Reclaimed Asphalt Shingles (RAS)" procedure in the Department's Manual of Test Procedures for Materials.

1031.08 HMA Production. HMA production utilizing FRAP and/or RAS shall be as follows.

To remove or reduce agglomerated material, a scalping screen, gator, crushing unit, or comparable sizing device approved by the Engineer shall be used in the RAS and FRAP feed system to remove or reduce oversized material. .

If during mix production, corrective actions fail to maintain FRAP, RAS or QC/QA test results within control tolerances or the requirements listed herein the Contractor shall cease production of the mixture containing FRAP or RAS and conduct an investigation that may require a new mix design.

- (a) RAS. RAS shall be incorporated into the HMA mixture either by a separate weight depletion system or by using the RAP weigh belt. Either feed system shall be interlocked with the aggregate feed or weigh system to maintain correct proportions for all rates of production and batch sizes. The portion of RAS shall be controlled accurately to within ± 0.5 percent of the amount of RAS utilized. When using the weight depletion system, flow indicators or sensing devices shall be provided and interlocked with the plant controls such that the mixture production is halted when RAS flow is interrupted.
- (b) HMA Plant Requirements. HMA plants utilizing FRAP and/or RAS shall be capable of automatically recording and printing the following information.
 - (1) Dryer Drum Plants.
 - a. Date, month, year, and time to the nearest minute for each print.
 - b. HMA mix number assigned by the Department.
 - c. Accumulated weight of dry aggregate (combined or individual) in tons (metric tons) to the nearest 0.1 ton (0.1 metric ton).
 - d. Accumulated dry weight of RAS and FRAP in tons (metric tons) to the nearest 0.1 ton (0.1 metric ton).
 - e. Accumulated mineral filler in revolutions, tons (metric tons), etc. to the nearest 0.1 unit.
 - f. Accumulated asphalt binder in gallons (liters), tons (metric tons), etc. to the nearest 0.1 unit.
 - g. Residual asphalt binder in the RAS and FRAP material as a percent of the total mix to the nearest 0.1 percent.
 - h. Aggregate RAS and FRAP moisture compensators in percent as set on the control panel. (Required when accumulated or individual aggregate and RAS and FRAP are printed in wet condition.)
 - i. When producing mixtures with FRAP and/or RAS, a positive dust control system shall be utilized.
 - j. Accumulated mixture tonnage.
 - k. Dust Removed (accumulated to the nearest 0.1 ton (0.1 metric ton))
 - (2) Batch Plants.
 - a. Date, month, year, and time to the nearest minute for each print.
 - b. HMA mix number assigned by the Department.
 - c. Individual virgin aggregate hot bin batch weights to the nearest pound (kilogram).
 - d. Mineral filler weight to the nearest pound (kilogram).
 - f. RAS and FRAP weight to the nearest pound (kilogram).
 - g. Virgin asphalt binder weight to the nearest pound (kilogram).
 - h. Residual asphalt binder in the RAS and FRAP material as a percent of the total mix to the nearest 0.1 percent.

The printouts shall be maintained in a file at the plant for a minimum of one year or as directed by the Engineer and shall be made available upon request. The printing system will be inspected by the Engineer prior to production and verified at the beginning of each construction season thereafter.

1031.09 RAP in Aggregate Surface Course and Aggregate Wedge Shoulders, Type B. The use of RAP or FRAP in aggregate surface course and aggregate shoulders shall be as follows.

- (a) Stockpiles and Testing. RAP stockpiles may be any of those listed in Article 1031.02, except "Non-Quality" and "FRAP". The testing requirements of Article 1031.03 shall not apply. RAP used shall be according to the current Central Bureau of Materials Policy Memorandum, "Reclaimed Asphalt Pavement (RAP) for Aggregate Applications".
- (c) Gradation. The RAP material shall meet the gradation requirements for CA 6 according to Article 1004.01(c), except the requirements for the minus No. 200 (75 μ m) sieve shall not apply. The sample for the RAP material shall be air dried to constant weight prior to being tested for gradation."

BDE SPECIAL PROVISIONS
For the January 18, 2019 and March 8, 2019 Lettings

The following special provisions indicated by a "check mark" are applicable to this contract and will be included by the Project Coordination and Implementation Section of the BD&E. An * indicates a new or revised special provision for the letting.

| File Name # | | Special Provision Title | Effective | Revised |
|-------------|----|---|---------------|---------------|
| 80099 | 1 | <input type="checkbox"/> Accessible Pedestrian Signals (APS) | April 1, 2003 | Jan. 1, 2014 |
| 80274 | 2 | <input type="checkbox"/> Aggregate Subgrade Improvement | April 1, 2012 | April 1, 2016 |
| 80192 | 3 | <input type="checkbox"/> Automated Flagger Assistance Device | Jan. 1, 2008 | |
| 80173 | 4 | <input type="checkbox"/> Bituminous Materials Cost Adjustments | Nov. 2, 2006 | Aug. 1, 2017 |
| 80241 | 5 | <input type="checkbox"/> Bridge Demolition Debris | July 1, 2009 | |
| 50261 | 6 | <input type="checkbox"/> Building Removal-Case I (Non-Friable and Friable Asbestos) | Sept. 1, 1990 | April 1, 2010 |
| 50481 | 7 | <input type="checkbox"/> Building Removal-Case II (Non-Friable Asbestos) | Sept. 1, 1990 | April 1, 2010 |
| 50491 | 8 | <input type="checkbox"/> Building Removal-Case III (Friable Asbestos) | Sept. 1, 1990 | April 1, 2010 |
| 50531 | 9 | <input type="checkbox"/> Building Removal-Case IV (No Asbestos) | Sept. 1, 1990 | April 1, 2010 |
| * 80404 | 10 | <input type="checkbox"/> Coarse Aggregate Quality for Micro-Surfacing and Cape Seals | Jan. 1, 2019 | |
| 80384 | 11 | <input checked="" type="checkbox"/> Compensable Delay Costs | June 2, 2017 | |
| 80198 | 12 | <input type="checkbox"/> Completion Date (via calendar days) | April 1, 2008 | |
| 80199 | 13 | <input type="checkbox"/> Completion Date (via calendar days) Plus Working Days | April 1, 2008 | |
| 80293 | 14 | <input type="checkbox"/> Concrete Box Culverts with Skews > 30 Degrees and Design Fills ≤ 5 Feet | April 1, 2012 | July 1, 2016 |
| 80311 | 15 | <input type="checkbox"/> Concrete End Sections for Pipe Culverts | Jan. 1, 2013 | April 1, 2016 |
| 80277 | 16 | <input type="checkbox"/> Concrete Mix Design – Department Provided | Jan. 1, 2012 | April 1, 2016 |
| 80261 | 17 | <input checked="" type="checkbox"/> Construction Air Quality – Diesel Retrofit | June 1, 2010 | Nov. 1, 2014 |
| 80387 | 18 | <input type="checkbox"/> Contrast Preformed Plastic Pavement Marking | Nov. 1, 2017 | |
| 80029 | 19 | <input type="checkbox"/> Disadvantaged Business Enterprise Participation | Sept. 1, 2000 | April 2, 2018 |
| 80402 | 20 | <input checked="" type="checkbox"/> Disposal Fees | Nov. 1, 2018 | |
| 80378 | 21 | <input type="checkbox"/> Dowel Bar Inserter | Jan. 1, 2017 | Jan. 1, 2018 |
| * 80405 | 22 | <input type="checkbox"/> Elastomeric Bearings | Jan. 1, 2019 | |
| 80388 | 23 | <input checked="" type="checkbox"/> Equipment Parking and Storage | Nov. 1, 2017 | |
| 80229 | 24 | <input type="checkbox"/> Fuel Cost Adjustment | April 1, 2009 | Aug. 1, 2017 |
| 80304 | 25 | <input type="checkbox"/> Grooving for Recessed Pavement Markings | Nov. 1, 2012 | Nov. 1, 2017 |
| 80246 | 26 | <input checked="" type="checkbox"/> Hot-Mix Asphalt – Density Testing of Longitudinal Joints | Jan. 1, 2010 | Aug. 1, 2018 |
| * 80406 | 27 | <input type="checkbox"/> Hot-Mix Asphalt – Mixture Design Verification and Production (Modified for I-FIT Projects) | Jan. 1, 2019 | |
| * 80398 | 28 | <input type="checkbox"/> Hot-Mix Asphalt – Longitudinal Joint Sealant | Aug. 1, 2018 | Jan. 1, 2019 |
| 80399 | 29 | <input checked="" type="checkbox"/> Hot-Mix Asphalt – Oscillatory Roller | Aug. 1, 2018 | Nov. 1, 2018 |
| 80347 | 30 | <input type="checkbox"/> Hot-Mix Asphalt – Pay for Performance Using Percent Within Limits – Jobsite Sampling | Nov. 1, 2014 | Aug. 1, 2018 |
| * 80383 | 31 | <input type="checkbox"/> Hot-Mix Asphalt – Quality Control for Performance | April 1, 2017 | Jan. 1, 2019 |
| 80376 | 32 | <input checked="" type="checkbox"/> Hot-Mix Asphalt – Tack Coat | Nov. 1, 2016 | |
| 80392 | 33 | <input checked="" type="checkbox"/> Lights on Barricades | Jan. 1, 2018 | |
| 80336 | 34 | <input type="checkbox"/> Longitudinal Joint and Crack Patching | April 1, 2014 | April 1, 2016 |
| * 80393 | 35 | <input type="checkbox"/> Manholes, Valve Vaults, and Flat Slab Tops | Jan. 1, 2018 | Jan. 1, 2019 |
| 80400 | 36 | <input type="checkbox"/> Mast Arm Assembly and Pole | Aug. 1, 2018 | |
| 80045 | 37 | <input type="checkbox"/> Material Transfer Device | June 15, 1999 | Aug. 1, 2014 |
| 80394 | 38 | <input type="checkbox"/> Metal Flared End Section for Pipe Culverts | Jan. 1, 2018 | April 1, 2018 |
| 80165 | 39 | <input type="checkbox"/> Moisture Cured Urethane Paint System | Nov. 1, 2006 | Jan. 1, 2010 |
| 80349 | 40 | <input type="checkbox"/> Pavement Marking Blackout Tape | Nov. 1, 2014 | April 1, 2016 |
| 80371 | 41 | <input type="checkbox"/> Pavement Marking Removal | July 1, 2016 | |
| 80390 | 42 | <input type="checkbox"/> Payments to Subcontractors | Nov. 2, 2017 | |
| 80389 | 43 | <input type="checkbox"/> Portland Cement Concrete | Nov. 1, 2017 | |
| 80359 | 44 | <input type="checkbox"/> Portland Cement Concrete Bridge Deck Curing | April 1, 2015 | Nov. 1, 2017 |
| 80401 | 45 | <input type="checkbox"/> Portland Cement Concrete Pavement Connector for Bridge Approach Slab | Aug. 1, 2018 | |

| | | | | | |
|---------|----|-------------------------------------|---|---------------|---------------|
| 80300 | 46 | <input type="checkbox"/> | Preformed Plastic Pavement Marking Type D - Inlaid | April 1, 2012 | April 1, 2016 |
| 80328 | 47 | <input checked="" type="checkbox"/> | Progress Payments | Nov. 2, 2013 | |
| 34261 | 48 | <input type="checkbox"/> | Railroad Protective Liability Insurance | Dec. 1, 1986 | Jan. 1, 2006 |
| 80157 | 49 | <input type="checkbox"/> | Railroad Protective Liability Insurance (5 and 10) | Jan. 1, 2006 | |
| * 80306 | 50 | <input type="checkbox"/> | Reclaimed Asphalt Pavement (RAP) and Reclaimed Asphalt Shingles (RAS) | Nov. 1, 2012 | Jan. 1, 2019 |
| * 80407 | 51 | <input checked="" type="checkbox"/> | Removal and Disposal of Regulated Substances | Jan. 1, 2019 | |
| 80395 | 52 | <input type="checkbox"/> | Sloped Metal End Section for Pipe Culverts | Jan. 1, 2018 | |
| 80340 | 53 | <input type="checkbox"/> | Speed Display Trailer | April 2, 2014 | Jan. 1, 2017 |
| 80127 | 54 | <input type="checkbox"/> | Steel Cost Adjustment | April 2, 2004 | Aug. 1, 2017 |
| * 80408 | 55 | <input type="checkbox"/> | Steel Plate Beam Guardrail Manufacturing | Jan. 1, 2019 | |
| 80397 | 56 | <input type="checkbox"/> | Subcontractor and DBE Payment Reporting | April 2, 2018 | |
| 80391 | 57 | <input type="checkbox"/> | Subcontractor Mobilization Payments | Nov. 2, 2017 | |
| 80317 | 58 | <input type="checkbox"/> | Surface Testing of Hot-Mix Asphalt Overlays | Jan. 1, 2013 | April 1, 2016 |
| 80298 | 59 | <input type="checkbox"/> | Temporary Pavement Marking | April 1, 2012 | April 1, 2017 |
| 20338 | 60 | <input type="checkbox"/> | Training Special Provisions | Oct. 15, 1975 | |
| 80403 | 61 | <input type="checkbox"/> | Traffic Barrier Terminal, Type 1 Special | Nov. 1, 2018 | |
| * 80409 | 62 | <input checked="" type="checkbox"/> | Traffic Control Devices - Cones | Jan. 1, 2019 | |
| * 80410 | 63 | <input type="checkbox"/> | Traffic Spotters | Jan. 1, 2019 | |
| 80318 | 64 | <input type="checkbox"/> | Traversable Pipe Grate for Concrete End Sections | Jan. 1, 2013 | Jan. 1, 2018 |
| 80288 | 65 | <input type="checkbox"/> | Warm Mix Asphalt | Jan. 1, 2012 | April 1, 2016 |
| 80302 | 66 | <input type="checkbox"/> | Weekly DBE Trucking Reports | June 2, 2012 | April 2, 2015 |
| 80071 | 67 | <input type="checkbox"/> | Working Days | Jan. 1, 2002 | |

The following special provisions are in the 2019 Supplemental Specifications and Recurring Special Provisions.

| <u>File Name</u> | <u>Special Provision Title</u> | <u>New Location(s)</u> | <u>Effective</u> | <u>Revised</u> |
|------------------|---|--|------------------|----------------|
| 80382 | Adjusting Frames and Grates | Articles 602.02(s) and (t), 1043.04, and 1043.05 | April 1, 2017 | |
| 80366 | Butt Joints | Article 406.08(c) | July 1, 2016 | |
| 80386 | Calcium Aluminate Cement for Class PP-5 Concrete Patching | Article 1001.01(e) | Nov. 1, 2017 | |
| 80396 | Class A and B Patching | Articles 442.06(a)(1) and (2) | Jan. 1, 2018 | Nov. 1, 2018 |
| 80377 | Portable Changeable Message Signs | Articles 701.20(h) and 1106.02(i) | Nov. 1, 2016 | April 1, 2017 |
| 80385 | Portland Cement Concrete Sidewalk | Article 424.12 | Aug. 1, 2017 | |

The following special provisions require additional information from the designer. The additional information needs to be submitted as a separate document. The Project Coordination and Implementation section will then include the information in the applicable special provision.

- Bridge Demolition Debris
- Building Removal - Case I
- Building Removal - Case II
- Building Removal - Case III
- Building Removal-Case IV
- Completion Date
- Completion Date Plus Working Days
- DBE Participation
- Material Transfer Device
- Railroad Protective Liability Insurance
- Training Special Provisions
- Working Days

COMPENSABLE DELAY COSTS (BDE)

Effective: June 2, 2017

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 working day contracts the payment will be made according to Article 109.04. For completion date contracts, an adjustment will be determined as follows.

Extended Traffic Control occurs between April 1 and November 30:

$$\text{ETCP Adjustment (\$)} = \text{TE} \times (\% / 100 \times \text{CUP} / \text{OCT})$$

Extended Traffic Control occurs between December 1 and March 31:

$$\text{ETCP Adjustment (\$)} = \text{TE} \times 1.5 (\% / 100 \times \text{CUP} / \text{OCT})$$

Where: TE = Duration of approved time extension in calendar days.
 % = Percent maintenance for the traffic control, % (see table below).
 CUP = Contract unit price for the traffic control pay item in place during the delay.
 OCT = Original contract time in calendar days.

| Original Contract Amount | Percent Maintenance |
|------------------------------|---------------------|
| Up to \$2,000,000 | 65% |
| \$2,000,000 to \$10,000,000 | 75% |
| \$10,000,000 to \$20,000,000 | 85% |
| Over \$20,000,000 | 90% |

When an ETCP 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: November 1, 2014

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 using the phased in approach shown below. Equipment that is of a model year older than the year given for that equipment’s respective horsepower range shall be retrofitted:

| Effective Dates | Horsepower Range | Model Year |
|----------------------------|------------------|------------|
| June 1, 2010 ^{1/} | 600-749 | 2002 |
| | 750 and up | 2006 |
| June 1, 2011 ^{2/} | 100-299 | 2003 |
| | 300-599 | 2001 |
| | 600-749 | 2002 |
| | 750 and up | 2006 |
| June 1, 2012 ^{2/} | 50-99 | 2004 |
| | 100-299 | 2003 |
| | 300-599 | 2001 |
| | 600-749 | 2002 |
| | 750 and up | 2006 |

1/ Effective dates apply to Contractor diesel powered off-road equipment assigned to the contract.

2/ Effective dates apply to Contractor and subcontractor diesel powered off-road equipment assigned to the contract.

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* (<http://www.epa.gov/cleandiesel/verification/verif-list.htm>), 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.

80261

DISPOSAL FEES (BDE)

Effective: November 1, 2018

Replace Articles 109.04(b)(5) – 109.04(b)(8) of the Standard Specifications with the following:

- "(5) Disposal Fees. When the extra work performed includes paying for disposal fees at a clean construction and demolition debris facility, an uncontaminated soil fill operation or a landfill, the Contractor shall receive, as administrative costs, an amount equal to five percent of the first \$10,000 and one percent of any amount over \$10,000 of the total approved costs of such fees.
- (6) Miscellaneous. No additional allowance will be made for general superintendence, the use of small tools, or other costs for which no specific allowance is herein provided.
- (7) Statements. No payment will be made for work performed on a force account basis until the Contractor has furnished the Engineer with itemized statements of the cost of such force account work. Statements shall be accompanied and supported by invoices for all materials used and transportation charges. However, if materials used on the force account work are not specifically purchased for such work but are taken from the Contractor's stock, then in lieu of the invoices, the Contractor shall furnish an affidavit certifying that such materials were taken from his/her stock, that the quantity claimed was actually used, and that the price and transportation claimed represent the actual cost to the Contractor.

Itemized statements at the cost of force account work shall be detailed as follows.

- a. Name, classification, date, daily hours, total hours, rate, and extension for each laborer and foreman. Payrolls shall be submitted to substantiate actual wages paid if so requested by the Engineer.
 - b. Designation, dates, daily hours, total hours, rental rate, and extension for each unit of machinery and equipment.
 - c. Quantities of materials, prices and extensions.
 - d. Transportation of materials.
 - e. Cost of property damage, liability and workmen's compensation insurance premiums, unemployment insurance contributions, and social security tax.
- (8) Work Performed by an Approved Subcontractor. When extra work is performed by an approved subcontractor, the Contractor shall receive, as administrative costs, an amount equal to five percent of the total approved costs of such work with the minimum payment being \$100.

- (9) All statements of the cost of force account work shall be furnished to the Engineer not later than 60 days after receipt of the Central Bureau of Construction form "Extra Work Daily Report". If the statement is not received within the specified time frame, all demands for payment for the extra work are waived and the Department is released from any and all such demands. It is the responsibility of the Contractor to ensure that all statements are received within the specified time regardless of the manner or method of delivery."

80402

EQUIPMENT PARKING AND STORAGE (BDE)

Effective: November 1, 2017

Replace the first paragraph of Article 701.11 of the Standard Specifications with the following.

“701.11 Equipment Parking and Storage. During working hours, all vehicles and/or nonoperating equipment which are parked, two hours or less, shall be parked at least 8 ft (2.5 m) from the open traffic lane. For other periods of time during working and for all nonworking hours, all vehicles, materials, and equipment shall be parked or stored as follows.

- (a) When the project has adequate right-of-way, vehicles, materials, and equipment shall be located a minimum of 30 ft (9 m) from the pavement.
- (b) When adequate right-of-way does not exist, vehicles, materials, and equipment shall be located a minimum of 15 ft (4.5 m) from the edge of any pavement open to traffic.
- (c) Behind temporary concrete barrier, vehicles, materials, and equipment shall be located a minimum of 24 in. (600 mm) behind free standing barrier or a minimum of 6 in. (150 mm) behind barrier that is either pinned or restrained according to Article 704.04. The 24 in. or 6 in. measurement shall be from the base of the non-traffic side of the barrier.
- (d) Behind other man-made or natural barriers meeting the approval of the Engineer.”

80388

HOT-MIX ASPHALT - DENSITY TESTING OF LONGITUDINAL JOINTS (BDE)

Effective: January 1, 2010

Revised: August 1, 2018

Description. This work shall consist of testing the density of longitudinal joints as part of the quality control/quality assurance (QC/QA) of hot-mix asphalt (HMA). Work shall be according to Section 1030 of the Standard Specifications except as follows.

Quality Control/Quality Assurance (QC/QA). Delete the second and third sentence of the third paragraph of Article 1030.05(d)(3) of the Standard Specifications.

Add the following paragraphs to the end of Article 1030.05(d)(3) of the Standard Specifications:

“Longitudinal joint density testing shall be performed at each random density test location. Longitudinal joint testing shall be located at a distance equal to the lift thickness or a minimum of 4 in. (100 mm), from each pavement edge. (i.e. for a 5 in. (125 mm) lift the near edge of the density gauge or core barrel shall be within 5 in. (125 mm) from the edge of pavement.) Longitudinal joint density testing shall be performed using either a correlated nuclear gauge or cores.

- a. **Confined Edge.** Each confined edge density shall be represented by a one-minute nuclear density reading or a core density and shall be included in the average of density readings or core densities taken across the mat which represents the Individual Test.
- b. **Unconfined Edge.** Each unconfined edge joint density shall be represented by an average of three one-minute density readings or a single core density at the given density test location and shall meet the density requirements specified herein. The three one-minute readings shall be spaced 10 ft (3 m) apart longitudinally along the unconfined pavement edge and centered at the random density test location.

When a longitudinal joint sealant (LJS) is applied, longitudinal joint density testing will not be required on the joint(s) sealed.”

Revise the Density Control Limits table in Article 1030.05(d)(4) of the Standard Specifications to read:

| "Mixture Composition | Parameter | Individual Test (includes confined edges) | Unconfined Edge Joint Density Minimum |
|----------------------|--------------|---|---------------------------------------|
| IL-4.75 | Ndesign = 50 | 93.0 – 97.4% ^{1/} | 91.0% |
| IL-9.5 | Ndesign = 90 | 92.0 – 96.0% | 90.0% |
| IL-9.5,IL-9.5L | Ndesign < 90 | 92.5 – 97.4% | 90.0% |
| IL-19.0 | Ndesign = 90 | 93.0 – 96.0% | 90.0% |
| IL-19.0, IL-19.0L | Ndesign < 90 | 93.0 ^{2/} – 97.4% | 90.0% |

| | | | |
|-----|-------------------|--------------|--------|
| SMA | Ndesign = 50 & 80 | 93.5 – 97.4% | 91.0%” |
|-----|-------------------|--------------|--------|

80246

HOT-MIX ASPHALT – OSCILLATORY ROLLER (BDE)

Effective: August 1, 2018
 Revised: November 1, 2018

Add the following to Article 406.03 of the Standard Specifications:

“(j) Oscillatory Roller1101.01”

Revise Table 1 and Note 3/ of Table 1 in Article 406.07(a) of the Standard Specifications to read:

| "TABLE 1 - MINIMUM ROLLER REQUIREMENTS FOR HMA | | | | |
|---|--|---|--|---|
| | Breakdown Roller (one of the following) | Intermediate Roller | Final Roller (one or more of the following) | Density Requirement |
| Level Binder: (When the density requirements of Article 406.05(c) do not apply.) | P ^{3/} | -- | V _S , P ^{3/} , T _B , T _F , 3W, O _T | To the satisfaction of the Engineer. |
| Binder and Surface ^{1/} Level Binder ^{1/} : (When the density requirements of Article 406.05(c) apply.) | V _D , P ^{3/} , T _B , 3W, O _T , O _B | P ^{3/} , O _T , O _B | V _S , T _B , T _F , O _T | As specified in Articles: 1030.05(d)(3), (d)(4), and (d)(7). |
| IL-4.75 and SMA ^{4/ 5/} | T _B , 3W, O _T | -- | T _F , 3W, O _T | |
| Bridge Decks ^{2/} | T _B | -- | T _F | As specified in Articles 582.05 and 582.06. |

3/ A vibratory roller (V_D) or oscillatory roller (O_T or O_B) may be used in lieu of the pneumatic-tired roller on mixtures containing polymer modified asphalt binder.”

Add the following to EQUIPMENT DEFINITION in Article 406.07(a) contained in the Errata of the Supplemental Specifications:

“O_T - Oscillatory roller, tangential impact mode. Maximum speed is 3.0 mph (4.8 km/h) or 264 ft/min (80 m/min).

O_B - Oscillatory roller, tangential and vertical impact mode, operated at a speed to produce not less than 10 vertical impacts/ft (30 impacts/m).”

Add the following to Article 1101.01 of the Standard Specifications:

“(h) Oscillatory Roller. The oscillatory roller shall be self-propelled and provide a smooth operation when starting, stopping, or reversing directions. The oscillatory roller shall be able to operate in a mode that will provide tangential impact force with or without vertical impact force by using at least one drum. The oscillatory roller shall be equipped with water tanks and sprinkling devices, or other approved methods, which shall be used to wet the drums to prevent material pickup. The drum(s) amplitude and frequency of the tangential and vertical impact force shall be approximately the same in each direction and meet the following requirements:

- (1) The minimum diameter of the drum(s) shall be 42 in. (1070 mm)48 in. (1200 mm);
- (2) The minimum length of the drum(s) shall be 57 in. (1480 mm)66 in. (1650 mm);
- (3) The minimum unit static force on the drum(s) shall be 125 lb/in. (22 N/m); and
- (4) The minimum force on the oscillatory drum shall be 18,000 lb (80 kN).”; and
- (5) Self-adjusting eccentrics, and reversible eccentrics on non-driven drum(s).”

HOT-MIX ASPHALT – TACK COAT (BDE)

Effective: November 1, 2016

Revise Article 1032.06(a) of the Standard Specifications to read:

"(a) Anionic Emulsified Asphalt. Anionic emulsified asphalts shall be according to AASHTO M 140. SS-1h emulsions used as a tack coat shall have the cement mixing test waived."

80376

LIGHTS ON BARRICADES (BDE)

Effective: January 1, 2018

Revise Article 701.16 of the Standard Specifications to read:

"701.16 Lights. Lights shall be used on devices as required in the plans, the traffic control plan, and the following table.

| Circumstance | Lights Required |
|---|-------------------------------------|
| Daylight operations | None |
| First two warning signs on each approach to the work involving a nighttime lane closure and "ROUGH GROOVED SURFACE" (W8-I107) signs | Flashing mono-directional lights |
| Devices delineating isolated obstacles, excavations, or hazards at night (Does not apply to patching) | Flashing bi-directional lights |
| Devices delineating obstacles, excavations, or hazards exceeding 100 ft (30 m) in length at night (Does not apply to widening) | Steady burn bi-directional lights |
| Channelizing devices for nighttime lane closures on two-lane roads | None |
| Channelizing devices for nighttime lane closures on multi-lane roads | None |
| Channelizing devices for nighttime lane closures on multi-lane roads separating opposing directions of traffic | None |
| Channelizing devices for nighttime along lane shifts on multilane roads | Steady burn mono-directional lights |
| Channelizing devices for night time along lane shifts on two lane roads | Steady burn bi-directional lights |
| Devices in nighttime lane closure tapers on Standards 701316 and 701321 | Steady burn bi-directional lights |
| Devices in nighttime lane closure tapers | Steady burn mono-directional lights |
| Devices delineating a widening trench | None |
| Devices delineating patches at night on roadways with an ADT less than 25,000 | None |
| Devices delineating patches at night on roadways with an ADT of 25,000 or more | None |

Batteries for the lights shall be replaced on a group basis at such times as may be specified by the Engineer."

Delete the fourth sentence of the first paragraph of Article 701.17(c)(2) of the Standard Specifications.

Revise the first paragraph of Article 603.07 of the Standard Specifications to read:

"603.07 Protection Under Traffic. After the casting has been adjusted and Class SI concrete has been placed, the work shall be protected by a barricade for at least 72 hours."

80392

PROGRESS PAYMENTS (BDE)

Effective: November 2, 2013

Revise Article 109.07(a) of the Standard Specifications to read:

- "(a) Progress Payments. At least once each month, the Engineer will make a written estimate of the quantity of work performed in accordance with the contract, and the value thereof at the contract unit prices. The amount of the estimate approved as due for payment will be vouchered by the Department and presented to the State Comptroller for payment. No amount less than \$1000.00 will be approved for payment other than the final payment.

Progress payments may be reduced by liens filed pursuant to Section 23(c) of the Mechanics' Lien Act, 770 ILCS 60/23(c).

If a Contractor or subcontractor has defaulted on a loan issued under the Department's Disadvantaged Business Revolving Loan Program (20 ILCS 2705/2705-610), progress payments may be reduced pursuant to the terms of that loan agreement. In such cases, the amount of the estimate related to the work performed by the Contractor or subcontractor, in default of the loan agreement, will be offset, in whole or in part, and vouchered by the Department to the Working Capital Revolving Fund or designated escrow account. Payment for the work shall be considered as issued and received by the Contractor or subcontractor on the date of the offset voucher. Further, the amount of the offset voucher shall be a credit against the Department's obligation to pay the Contractor, the Contractor's obligation to pay the subcontractor, and the Contractor's or subcontractor's total loan indebtedness to the Department. The offset shall continue until such time as the entire loan indebtedness is satisfied. The Department will notify the Contractor and Fund Control Agent in a timely manner of such offset. The Contractor or subcontractor shall not be entitled to additional payment in consideration of the offset.

The failure to perform any requirement, obligation, or term of the contract by the Contractor shall be reason for withholding any progress payments until the Department determines that compliance has been achieved."

REMOVAL AND DISPOSAL OF REGULATED SUBSTANCES (BDE)

Effective: January 1, 2019

Revise Section 669 of the Standard Specifications to read:

"SECTION 669. REMOVAL AND DISPOSAL OF REGULATED SUBSTANCES

669.01 Description. This work shall consist of the transportation and proper disposal of contaminated soil and groundwater. This work shall also consist of the removal, transportation, and proper disposal of underground storage tanks (UST), their content and associated underground piping to the point where the piping is above the ground, including determining the content types and estimated quantities.

669.02 Equipment. The Contractor shall notify the Engineer of the delivery of all excavation, storage, and transportation equipment to a work area location. The equipment shall comply with OSHA and American Petroleum Institute (API) guidelines and shall be furnished in a clean condition. Clean condition means the equipment does not contain any residual material classified as a non-special waste, non-hazardous special waste, or hazardous waste. Residual materials include, but are not limited to, petroleum products, chemical products, sludges, or any other material present in or on equipment.

Before beginning any associated soil or groundwater management activity, the Contractor shall provide the Engineer with the opportunity to visually inspect and approve the equipment. If the equipment contains any contaminated residual material, decontamination shall be performed on the equipment as appropriate to the regulated substance and degree of contamination present according to OSHA and API guidelines. All cleaning fluids used shall be treated as the contaminant unless laboratory testing proves otherwise.

669.03 Pre-construction Submittals. Prior to beginning this work, or working in areas with regulated substances, the Contractor shall submit a Regulated Substance Pre-Construction Plan (RSPCP) to the Engineer for review and approval using form BDE 2730. The form shall be signed by an Illinois licensed Professional Engineer or Professional Geologist.

As part of the RSPCP, the qualifications of Contractor(s) or firm(s) performing the following work shall be listed.

- (a) On-Site Monitoring. Qualification for on-site monitoring of regulated substance work and on-site monitoring of UST removal requires either pre-qualification in Hazardous Waste by the Department or demonstration of acceptable project experience in remediation and special waste operations for contaminated sites in accordance with applicable Federal, State, or local regulatory requirements.

Qualification for each individual performing on-site monitoring requires a minimum of one-year of experience in similar activities as those required for the project.

- (b) Underground Storage Tank. Qualification for underground storage tank (UST) work requires licensing and certification with the Office of the State Fire Marshall (OSFM) and possession of all permits required to perform the work. A copy of the permit shall be provided to the Engineer prior to tank removal.

The qualified Contractor(s) or firm(s) shall also document it does not have any current or former ties with any of the properties contained within, adjoining, or potentially affecting the work.

The Engineer will require up to 30 calendar days for review of the RSPCP. The review may involve rejection or revision and resubmittal; in which case, an additional 30 days will be required for each subsequent review. Work shall not commence until the RSPCP has been approved by the Engineer. After approval, the RSPCP shall be revised as necessary to reflect changed conditions in the field.

CONSTRUCTION REQUIREMENTS

669.04 Contaminated Soil and/or Groundwater Monitoring. Prior to beginning excavation, the Contractor shall mark the limits of removal for approval by the Engineer. Once excavation begins, the work and work area involving regulated substances shall be monitored by qualified personnel. The qualified personnel shall be on-site continuously during excavation and loading of material containing regulated substances. The qualified personnel shall be equipped with either a photoionization detector (PID) (minimum 10.6eV lamp), or a flame ionization detector (FID), and other equipment, as appropriate, to monitor for potential contaminants associated with volatile organic compounds (VOCs) or semi-volatile organic compounds (SVOCs). The PID or FID meter shall be calibrated on-site and background level readings taken and recorded daily, and as field and weather conditions change. Any field screen reading on the PID or FID in excess of background levels indicates the potential presence of contaminated material requiring handling as a non-special waste, special waste, or hazardous waste. PID or FID readings may be used as the basis of increasing the limits of removal with the approval of the Engineer but shall in no case be used to decrease the limits.

The qualified personnel shall document field activities using form BDE 2732 (Regulated Substances Monitoring Daily Record) including the name(s) of personnel conducting the monitoring, weather conditions, PID or FID calibration records, a list of equipment used on-site, a narrative of activities completed, photo log sheets, manifests and landfill tickets, monitoring results, how regulated substances were managed and other pertinent information.

Samples will be collected in accordance with the RSPCP. Samples shall be analyzed for the contaminants of concern (COCs), including pH, based on the property's land use history, the encountered abnormality and/or the parameters listed in the maximum allowable concentration (MAC) for chemical constituents in uncontaminated soil established pursuant to Subpart F of 35 Ill. Adm. Code 1100.605. The analytical results shall serve to document the level of contamination.

Samples shall be grab samples (not combined with other locations). The samples shall be taken with decontaminated or disposable instruments. The samples shall be placed in sealed containers and transported in an insulated container to the laboratory. The container shall maintain a temperature of 39 °F (4 °C). All samples shall be clearly labeled. The labels shall indicate the sample number, date sampled, collection location and depth, and any other relevant observations.

The laboratory shall use analytical methods which are able to meet the lowest appropriate practical quantitation limits (PQL) or estimated quantitation limit (EQL) specified in "Test Methods for Evaluating Solid Wastes, Physical/Chemical Methods", EPA Publication No. SW-846; "Methods for the Determination of Organic Compounds in Drinking Water", EPA, EMSL, EPA-600/4-88/039; and "Methods for the Determination of Organic Compounds in Drinking Water, Supplement III", EPA 600/R-95/131, August 1995. For parameters where the specified cleanup objective is below the acceptable detection limit (ADL), the ADL shall serve as the cleanup objective. For other parameters the ADL shall be equal to or below the specified cleanup objective.

669.05 Contaminated Soil and/or Groundwater Management and Disposal. The management and disposal of contaminated soil and/or groundwater shall be according to the following:

- (a) Soil Analytical Results Exceed Most Stringent MAC. When the soil analytical results indicate that detected levels exceed the most stringent maximum allowable concentration (MAC) for chemical constituents in uncontaminated soil established pursuant to Subpart F of 35 Illinois Administrative Code 1100.605, the soil shall be managed as follows:
 - (1) When analytical results indicate inorganic chemical constituents exceed the most stringent MAC but they are still considered within area background levels by the Engineer, the excavated soil can be utilized within the construction limits as fill, when suitable. If the soils cannot be utilized within the construction limits, they shall be managed and disposed of off-site as a non-special waste, special waste, or hazardous waste as applicable.
 - (2) When analytical results indicate chemical constituents exceed the most stringent MAC but do not exceed the MAC for a Metropolitan Statistical Area (MSA) County, the excavated soil can be utilized within the construction limits as fill, when suitable, or managed and disposed of off-site as "uncontaminated soil" at a clean construction and demolition debris (CCDD) facility or an uncontaminated soil fill operation (USFO) within an MSA County provided the pH of the soil is within the range of 6.25 - 9.0, inclusive.
 - (3) When analytical results indicate chemical constituents exceed the most stringent MAC but do not exceed the MAC for an MSA County excluding Chicago, or the MAC within the Chicago corporate limits, the excavated soil can be utilized within the construction limits as fill, when suitable, or managed and disposed of off-site as "uncontaminated soil" at a CCDD facility or an USFO within an MSA County excluding Chicago or within

the Chicago corporate limits provided the pH of the soil is within the range of 6.25 - 9.0, inclusive.

- (4) When analytical results indicate chemical constituents exceed the most stringent MAC but do not exceed the MAC for an MSA County excluding Chicago, the excavated soil can be utilized within the construction limits as fill, when suitable, or managed and disposed of off-site as "uncontaminated soil" at a CCDD facility or an USFO within an MSA County excluding Chicago provided the pH of the soil is within the range of 6.25 - 9.0, inclusive.
 - (5) When the Engineer determines soil cannot be managed according to Articles 669.05(a)(1) through (a)(4) above, the soil shall be managed and disposed of off-site as a non-special waste, special waste, or hazardous waste as applicable.
- (b) Soil Analytical Results Do Not Exceed Most Stringent MAC. When the soil analytical results indicate that detected levels do not exceed the most stringent MAC, the excavated soil can be utilized within the construction limits or managed and disposed off-site as "uncontaminated soil" according to Article 202.03. However, the excavated soil cannot be taken to a CCDD facility or an USFO for any of the following reasons.
- (1) The pH of the soil is less than 6.25 or greater than 9.0.
 - (2) The soil exhibited PID or FID readings in excess of background levels.
- (c) Soil Analytical Results Exceed Most Stringent MAC but Do Not Exceed Tiered Approach to Corrective Action Objectives (TACO) Residential. When the soil analytical results indicate that detected levels exceed the most stringent MAC but do not exceed TACO Tier 1 Soil Remediation Objectives for Residential Properties pursuant to 35 IAC 742 Appendix B Table A, the excavated soil can be utilized within the right-of-way or managed and disposed off-site as "uncontaminated soil" according to Article 202.03. However, the excavated soil cannot be taken to a CCDD facility or an USFO.
- (d) Groundwater. When groundwater analytical results indicate the detected levels are above Appendix B, Table E of 35 Illinois Administrative Code 742, the most stringent Tier 1 Groundwater Remediation Objectives for Groundwater Component of the Groundwater Ingestion Route for Class 1 groundwater, the groundwater shall be managed off-site as a special waste. The groundwater shall be containerized and trucked to an off-site treatment facility or may be discharged to a sanitary sewer or combined sewer when permitted by the local sewer authority. Groundwater discharged to a sewer shall be pre-treated to remove particulates and measured with a calibrated flow meter to comply with applicable discharge limits. A copy of the permit shall be provided to the Engineer prior to discharging groundwater to the sewer.

All groundwater encountered within trenches may be managed within the trench and allowed to infiltrate back into the ground. If the groundwater cannot be managed within the trench it must be removed as a special or hazardous waste. The Contractor is

prohibited from managing groundwater within the trench by discharging it through any existing or new storm sewer. The Contractor shall install backfill plugs within the area of groundwater contamination.

One backfill plug shall be placed down gradient to the area of groundwater contamination. Backfill plugs shall be installed at intervals not to exceed 50 ft (15 m). Backfill plugs are to be 4 ft (1.2 m) long, measured parallel to the trench, full trench width and depth. Backfill plugs shall not have any fine aggregate bedding or backfill, but shall be entirely cohesive soil or any class of concrete. The Contractor shall provide test data that the material has a permeability of less than 10^{-7} cm/sec according to ASTM D 5084, Method A or per another test method approved by the Engineer.

The Contractor shall use due care when transferring contaminated material from the area of origin to the transporter. Should releases of contaminated material to the environment occur (i.e., spillage onto the ground, etc.), the Contractor shall clean-up spilled material and place in the appropriate storage containers as previously specified. Clean-up shall include, but not be limited to, sampling beneath the material staging area to determine complete removal of the spilled material.

The Contractor shall be responsible for transporting and disposing all material classified as a non-special waste, special waste, or hazardous waste from the job site to an appropriately permitted landfill facility. The transporter and the vehicles used for transportation shall comply with all federal, state, and local rules and regulations governing the transportation of non-special waste, special waste, or hazardous waste.

All equipment used by the Contractor to haul contaminated material to the landfill facility shall be lined with a 6 mil (150 micron) polyethylene liner and securely covered during transportation. The Contractor shall obtain all documentation including any permits and/or licenses required to transport the contaminated material to the disposal facility.

The Contractor shall provide engineered barriers, when required, and shall include materials sufficient to completely line excavation surfaces, including sloped surfaces, bottoms, and sidewall faces, within the areas designated for protection.

The Engineer shall coordinate with the Contractor on the completion of all documentation. The Contractor shall make all arrangements for collection and analysis of landfill acceptance testing. The Contractor shall coordinate for waste disposal approval with the disposal facility. After the Contractor completes these activities and upon receipt of authorization from the Engineer, the Contractor shall initiate the disposal process.

The Contractor shall provide the Engineer with all transport-related documentation within two days of transport or receipt of said document(s). The Engineer shall maintain the file for all such documentation. For management of special or hazardous waste, the Contractor shall provide the Engineer with documentation the Contractor (or subcontractor, if a subcontractor is used for transportation) is operating with a valid Illinois special waste transporter permit at least two weeks before transporting the first load of contaminated material.

The Contractor shall schedule and arrange the transport and disposal of each load of contaminated material produced. The Contractor shall make all transport and disposal arrangements so no contaminated material remains within the project area at the close of business each day. Exceptions to this specification require prior approval from the Engineer within 24 hours of close of business. The Contractor shall be responsible for all other pre-disposal/transport preparations necessary daily to accomplish management activities.

Any waste generated as a special or hazardous waste from a non-fixed facility shall be manifested off-site using the Department's county generator number. An authorized representative of the Department shall sign all manifests for the disposal of the contaminated material and confirm the Contractor's transported volume. Any waste generated as a non-special waste may be managed off-site without a manifest, a special waste transporter, or a generator number.

The Contractor shall select a landfill mandated by definition of the contaminant within the State of Illinois. The Department will review and approve or reject the facility proposed by the Contractor to use as a landfill. The Contractor shall verify whether the selected disposal facility is compliant with those applicable standards as mandated by definition of the contaminant and whether the disposal 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 Contractor shall be responsible for coordinating permits with the IEPA. The use of a Contractor selected landfill shall in no manner delay the construction schedule or alter the Contractor's responsibilities as set forth.

669.06 Non-Special Waste Certification. An authorized representative of the Department shall sign and date all non-special waste certifications. The Contractor shall be responsible for providing the Engineer with the required information that will allow the Engineer to certify the waste is not a special waste.

(a) Definition. A waste is considered a non-special waste as long as it is not:

- (1) a potentially infectious medical waste;
- (2) a hazardous waste as defined in 35 IAC 721;
- (3) an industrial process waste or pollution control waste that contains liquids, as determined using the paint filter test set forth in subdivision (3)(A) of subsection (m) of 35 IAC 811.107;
- (4) a regulated asbestos-containing waste material, as defined under the National Emission Standards for Hazardous Air Pollutants in 40 CFR 61.141;
- (5) a material containing polychlorinated biphenyls (PCB's) regulated pursuant to 40 CFR Part 761;

- (6) a material subject to the waste analysis and recordkeeping requirements of 35 IAC 728.107 under land disposal restrictions of 35 IAC 728;
 - (7) a waste material generated by processing recyclable metals by shredding and required to be managed as a special waste under Section 22.29 of the Environmental Protection Act; or
 - (8) an empty portable device or container in which a special or hazardous waste has been stored, transported, treated, disposed of, or otherwise handled.
- (b) Certification Information. All information used to determine the waste is not a special waste shall be attached to the certification. The information shall include but not be limited to:
- (1) the means by which the generator has determined the waste is not a hazardous waste;
 - (2) the means by which the generator has determined the waste is not a liquid;
 - (3) if the waste undergoes testing, the analytic results obtained from testing, signed and dated by the person responsible for completing the analysis;
 - (4) if the waste does not undergo testing, an explanation as to why no testing is needed;
 - (5) a description of the process generating the waste; and
 - (6) relevant material safety data sheets.

669.07 Temporary Staging. The Contractor shall excavate and dispose of all waste material as mandated by the contaminants without temporary staging. If circumstances require temporary staging, he/she shall request in writing, approval from the Engineer.

When approved, the Contractor shall prepare a secure location within the project area capable of housing containerized waste materials. The Contractor shall contain all waste material in leak-proof storage containers such as lined roll-off boxes or 55 gal (208 L) drums, or stored in bulk fashion on storage pads. The design and construction of such storage pad(s) for bulk materials shall be subject to approval by the Engineer. The Contractor shall place the staged storage containers on an all-weather gravel-packed, asphalt, or concrete surface. The Contractor shall maintain a clearance both above and beside the storage units to provide maneuverability during loading and unloading. The Contractor shall provide any assistance or equipment requested by the Engineer for authorized personnel to inspect and/or sample contents of each storage container. All containers and their contents shall remain intact and undisturbed by unauthorized persons until the manner of disposal is determined. The Contractor shall keep the storage containers covered, except when access is requested by authorized personnel of the Department. The Engineer shall authorize any additional material added to the contents of any storage container before being filled.

The Contractor shall ensure the staging area is enclosed (by a fence or other structure) to ensure direct access to the area is restricted, and he/she shall procure and place all required regulatory identification signs applicable to an area containing the waste material. The Contractor shall be responsible for all activities associated with the storage containers including, but not limited to, the procurement, transport, and labeling of the containers. The Contractor shall clearly mark all containers in permanent marker or paint with the date of waste generation, location and/or area of waste generation, and type of waste (e.g., decontamination water, contaminated clothing, etc.). The Contractor shall place these identifying markings on an exterior side surface of the container. The Contractor shall separately containerize each contaminated medium, i.e. contaminated clothing is placed in a separate container from decontamination water. Containers used to store liquids shall not be filled in excess of 80 percent of the rated capacity. The Contractor shall not use a storage container if visual inspection of the container reveals the presence of free liquids or other substances that could classify the material as a hazardous waste in the container.

The Department will not be responsible for any additional costs incurred, if mismanagement of the staging area, storage containers, or their contents by the Contractor results in excess cost expenditure for disposal or other material management requirements.

669.08 Underground Storage Tank Removal. For the purposes of this section, an underground storage tank (UST) includes the underground storage tank, piping, electrical controls, pump island, vent pipes and appurtenances.

Prior to removing an UST, the Engineer shall determine whether the Department is considered an "owner" or "operator" of the UST as defined by the UST regulations (41 Ill. Adm. Code Part 176). Ownership of the UST refers to the Department's owning title to the UST during storage, use or dispensing of regulated substances. The Department may be considered an "operator" of the UST if it has control of, or has responsibility for, the daily operation of the UST. The Department may however voluntarily undertake actions to remove an UST from the ground without being deemed an "operator" of the UST.

In the event the Department is deemed not to be the "owner" or "operator" of the UST, the OSFM removal permit shall reflect who was the past "owner" or "operator" of the UST. If the "owner" or "operator" cannot be determined from past UST registration documents from OSFM, then the OSFM removal permit will state the "owner" or "operator" of the UST is the Department. The Department's Office of Chief Counsel (OCC) will review all UST removal permits prior to submitting any removal permit to the OSFM. If the Department is not the "owner" or "operator" of the UST then it will not register the UST or pay any registration fee.

The Contractor shall be responsible for obtaining all permits required for removing the UST, notification to the OSFM, using an OSFM certified tank contractor, removal and disposal of the UST and its contents, and preparation and submittal of the OSFM Site Assessment Report in accordance with 41 Ill. Adm. Code Part 176.330.

The Contractor shall contact the Engineer and the OSFM's office at least 72 hours prior to removal to confirm the OSFM inspector's presence during the UST removal. Removal, transport,

and disposal of the UST shall be according to the applicable portions of the latest revision of the "American Petroleum Institute (API) Recommended Practice 1604".

The Contractor shall collect and analyze tank content (sludge) for disposal purposes. The Contractor shall remove as much of the regulated substance from the UST system as necessary to prevent further release into the environment. All contents within the tank shall be removed, transported and disposed of, or recycled. The tank shall be removed and rendered empty according to IEPA definition.

The Contractor shall collect soil samples from the bottom and sidewalls of the excavated area in accordance with 35 Ill. Adm. Code Part 734.210(h) after the required backfill has been removed during the initial response action, to determine the level of contamination remaining in the ground, regardless if a release is confirmed or not by the OSFM on-site inspector.

In the event the UST is designated a leaking underground storage tank (LUST) by the OSFM's inspector, or confirmation by analytical results, the Contractor shall notify the Engineer and the DESU. Upon confirmation of a release of contaminants from the UST and notifications to the Engineer and DESU, the Contractor shall report the release to the Illinois Emergency Management Agency (IEMA) (e.g., by telephone or electronic mail) and provide them with whatever information is available ("owner" or "operator" shall be stated as the past registered "owner" or "operator", or the IDOT District in which the UST is located and the DESU Manager);

The Contractor shall perform the following initial response actions if a release is indicated by the OSFM inspector:

- (a) Take immediate action to prevent any further release of the regulated substance to the environment, which may include removing, at the Engineer's discretion, and disposing of up to 4 ft (1.2 m) of the contaminated material, as measured from the outside dimension of the tank
- (b) Identify and mitigate fire, explosion and vapor hazards;
- (c) Visually inspect any above ground releases or exposed below ground releases and prevent further migration of the released substance into surrounding soils and groundwater; and
- (d) Continue to monitor and mitigate any additional fire and safety hazards posed by vapors and free product that have migrated from the UST excavation zone and entered into subsurface structures (such as sewers or basements).

The UST excavation shall be backfilled according to applicable portions of Sections 205, 208, and 550 with a material that will compact and develop stability. The material shall be approved prior to placement. All uncontaminated concrete and soil removed during tank extraction may be used to backfill the excavation, at the discretion of the Engineer.

After backfilling the excavation, the site shall be graded and cleaned.

669.09 Regulated Substance Final Construction Report. Not later than 90 days after completing this work, the Contractor shall submit a Regulated Substance Final Construction Report (RSFCR) to the Engineer using form BDE 2733 and required attachments. The form shall be signed by an Illinois licensed Professional Engineer or Professional Geologist.

669.10 Method of Measurement. Non-special waste, special waste, and hazardous waste soil will be measured for payment according to Article 202.07(b) when performing earth excavation, Article 502.12(b) when excavating for structures, or by computing the volume of the trench using the maximum trench width permitted and the actual depth of the trench.

Groundwater containerized and transported off-site for management, storage, and disposal will be measured for payment in gallons (liters).

Backfill plugs will be measured in cubic yards (cubic meters) in place, except the quantity for which payment will be made shall not exceed the volume of the trench, as computed by using the maximum width of trench permitted by the Specifications and the actual depth of the trench, with a deduction for the volume of the pipe.

Engineered Barriers will be measured for payment in square yards (square meters).

669.11 Basis of Payment. The work of preparing, submitting and administering a Regulated Substances Pre-Construction Plan will be paid for at the contract lump sum price for REGULATED SUBSTANCES PRE-CONSTRUCTION PLAN.

On-site monitoring of regulated substances, including completion of form BDE 2732 for each day of work, will be paid for at the contract unit price per calendar day, or fraction thereof, for ON-SITE MONITORING OF REGULATED SUBSTANCES.

The installation of engineered barriers will be paid for at the contract unit price per square yard (square meter) for ENGINEERED BARRIER.

The work of removing a UST, soil excavation, soil and content sampling, and the excavated soil, UST content, and UST disposal will be paid for at the contract unit price per each for UNDERGROUND STORAGE TANK REMOVAL.

The transportation and disposal of soil and other materials from an excavation determined to be contaminated will be paid for at the contract unit price per cubic yard (cubic meter) for NON-SPECIAL WASTE DISPOSAL, SPECIAL WASTE DISPOSAL, or HAZARDOUS WASTE DISPOSAL.

The transportation and disposal of groundwater from an excavation determined to be contaminated will be paid for at the contract unit price per gallon (liter) for SPECIAL WASTE GROUNDWATER DISPOSAL or HAZARDOUS WASTE GROUNDWATER DISPOSAL. When groundwater is discharged to a sanitary or combined sewer by permit, the cost will be paid for according to Article 109.05.

Backfill plugs will be paid for at the contract unit price per cubic yard (cubic meter) for BACKFILL PLUGS.

Payment for temporary staging, if required, will be paid for according to Article 109.04.

Payment for accumulated stormwater removal and disposal will be according to Article 109.04. Payment will only be allowed if appropriate stormwater and erosion control methods were used.

Payment for decontamination, labor, material, and equipment for monitoring areas beyond the specified areas, with the Engineer's prior written approval, will be according to Article 109.04.

The sampling and testing associated with this work will be paid for as follows.

- (a) BETX Soil/Groundwater Analysis. When the contaminants of concern are gasoline only, soil or groundwater samples shall be analyzed for benzene, ethylbenzene, toluene, and xylenes (BETX). The analysis will be paid for at the contract unit price per each for BETX SOIL ANALYSIS and/or BETX GROUNDWATER ANALYSIS using EPA Method 8021B.
- (b) BETX-PNAS Soil/Groundwater Analysis. When the contaminants of concern are middle distillate and heavy ends, soil or groundwater samples shall be analyzed for BETX and polynuclear aromatics (PNAS). The analysis will be paid for at the contract unit price per each for BETX-PNAS SOIL ANALYSIS and/or BETX-PNAS GROUNDWATER ANALYSIS using EPA Method 8021B for BETX and EPA Method 8310 for PNAS.
- (c) Priority Pollutants Soil Analysis. When the contaminants of concern are used oils, soil samples shall be analyzed for priority pollutant VOCs, priority pollutants SVOCs, and priority pollutants metals. The analysis will be paid for at the contract unit price per each for PRIORITY POLLUTANTS SOIL ANALYSIS using EPA Method 8260B for VOCs, EPA Method 8270C for SVOCs, and using an ICP instrument and EPA Methods 6010B and 7471A for metals.
- (d) Priority Pollutant Groundwater Analysis. When the contaminants of concern are used oils, non-petroleum material, or unknowns, groundwater samples shall be analyzed for priority pollutant VOCs, priority pollutants SVOCs, and priority pollutants metals. The analysis will be paid for at the contract unit price per each for PRIORITY POLLUTANTS GROUNDWATER ANALYSIS using EPA Method 8260B for VOCs, EPA Method 8270C for SVOCs, and EPA Methods 6010B and 7470A for metals.
- (e) Target Compound List (TCL) Soil Analysis. When the contaminants of concern are unknowns or non-petroleum material, soil samples shall be analyzed for priority pollutant VOCs, priority pollutants SVOCs, priority pollutants metals, pesticides, and Resource Conservation and Recovery Act (RCRA) metals by the toxicity characteristic leaching procedure (TCLP). The analysis will be paid for at the contract unit price per each for TCL SOIL ANALYSIS using EPA Method 8260B for VOCs, EPA Method 8270C for SVOCs,

TRAFFIC CONTROL DEVICES - CONES (BDE)

Effective: January 1, 2019

Revise Article 701.15(a) of the Standard Specifications to read:

“(a) Cones. Cones are used to channelize traffic. Cones used to channelize traffic at night shall be reflectorized; however, cones shall not be used in nighttime lane closure tapers or nighttime lane shifts.”

Revise Article 1106.02(b) of the Standard Specifications to read:

“(b) Cones. Cones shall be predominantly orange. Cones used at night that are 28 to 36 in. (700 to 900 mm) in height shall have two white circumferential stripes. If non-reflective spaces are left between the stripes, the spaces shall be no more than 2 in. (50mm) in width. Cones used at night that are taller than 36 in. (900 mm) shall have a minimum of two white and two fluorescent orange alternating, circumferential stripes with the top stripe being fluorescent orange. If non-reflective spaces are left between the stripes, the spaces shall be no more than 3 in. (75 mm) in width.

The minimum weights for the various cone heights shall be 4 lb for 18 in. (2 kg for 450 mm), 7 lb for 28 in. (3 kg for 700 mm), and 10 lb for 36 in. (5 kg for 900 mm) with a minimum of 60 percent of the total weight in the base. Cones taller than 36 in. shall be weighted per the manufacturer's specifications such that they are not moved by wind or passing traffic.”

80409

Prevailing Wage Rates for Cook County (Updated 12/26/2018)

| Trade Title | Region | Type | Class | Base Wage | Reman Wa | OT M-F | OT Sa | OT Su | OT Hol | H/W | Pension | Vacation | Training | Fringe Benefit |
|----------------------|--------|------|-------|-----------|----------|--------|-------|-------|--------|-------|---------|----------|----------|----------------|
| ASBESTOS ABT-GEN | All | ALL | | 42.72 | 43.72 | 1.5 | 1.5 | 2 | 2 | 14.90 | 12.57 | 0.00 | 0.72 | 0.00 |
| ASBESTOS ABT-MEC | All | BLD | | 37.88 | 40.38 | 1.5 | 1.5 | 2 | 2 | 12.92 | 11.82 | 0.00 | 0.72 | 0.00 |
| BOILERMAKER | All | BLD | | 49.46 | 53.91 | 1.5 | 1.5 | 2 | 2 | 6.97 | 20.40 | 0.00 | 1.60 | 0.00 |
| BRICK MASON | All | BLD | | 46.19 | 50.81 | 1.5 | 1.5 | 2 | 2 | 10.65 | 17.92 | 0.00 | 0.92 | 0.00 |
| CARPENTER | All | ALL | | 47.35 | 49.35 | 1.5 | 1.5 | 2 | 2 | 11.79 | 20.41 | 0.00 | 0.63 | 0.00 |
| CEMENT MASON | All | ALL | | 45.25 | 47.25 | 2 | 1.5 | 2 | 2 | 14.25 | 17.03 | 0.00 | 1.10 | 1.36 |
| CERAMIC TILE FNISHER | All | BLD | | 39.56 | 39.56 | 1.5 | 1.5 | 2 | 2 | 10.75 | 12.02 | 0.00 | 0.77 | 0.00 |
| COMM. ELECT. | All | BLD | | 43.96 | 46.76 | 1.5 | 1.5 | 2 | 2 | 9.85 | 13.26 | 1.25 | 0.85 | 0.00 |
| ELECTRIC PWR EQMT OP | All | ALL | | 51.90 | 56.90 | 1.5 | 1.5 | 2 | 2 | 12.04 | 17.18 | 0.00 | 3.23 | 0.00 |
| ELECTRIC PWR GRNDMAN | All | ALL | | 40.48 | 56.90 | 1.5 | 1.5 | 2 | 2 | 9.39 | 13.40 | 0.00 | 2.51 | 0.00 |
| ELECTRIC PWR LINEMAN | All | ALL | | 51.90 | 56.90 | 1.5 | 1.5 | 2 | 2 | 12.04 | 17.18 | 0.00 | 3.23 | 0.12 |
| ELECTRICIAN | All | ALL | | 48.35 | 51.35 | 1.5 | 1.5 | 2 | 2 | 15.13 | 16.52 | 1.25 | 1.28 | 0.00 |
| ELEVATOR CONSTRUCTOR | All | BLD | | 54.85 | | 2 | 2 | 2 | 2 | 15.43 | 16.61 | 4.39 | 0.61 | 0.00 |
| FENCE ERECTOR | All | ALL | | 40.88 | 42.88 | 1.5 | 1.5 | 2 | 1.5 | 13.59 | 14.76 | 0.00 | 0.65 | 0.00 |
| GLAZIER | All | BLD | | 43.85 | 45.35 | 1.5 | 2 | 2 | 2 | 14.37 | 21.11 | 0.00 | 0.94 | 0.00 |
| HT/FROST INSULATOR | All | BLD | | 50.50 | 53.00 | 1.5 | 1.5 | 2 | 2 | 12.92 | 13.16 | 0.00 | 0.87 | 0.00 |
| IRON WORKER | All | ALL | | 48.33 | 51.83 | 2 | 2 | 2 | 2 | 14.15 | 23.28 | 0.00 | 0.35 | 0.00 |
| LABORER | All | ALL | | 42.72 | 43.47 | 1.5 | 1.5 | 2 | 2 | 14.90 | 12.57 | 0.00 | 0.72 | 0.00 |
| LATHER | All | ALL | | 47.35 | 49.35 | 1.5 | 1.5 | 2 | 2 | 11.79 | 20.41 | 0.00 | 0.63 | 0.00 |
| MACHINIST | All | BLD | | 48.38 | 50.88 | 1.5 | 1.5 | 2 | 2 | 7.23 | 8.95 | 1.85 | 1.32 | 0.00 |
| MARBLE FINISHERS | All | ALL | | 34.65 | 47.70 | 1.5 | 1.5 | 2 | 2 | 10.65 | 16.46 | 0.00 | 0.49 | 0.00 |
| MARBLE MASON | All | BLD | | 45.43 | 49.97 | 1.5 | 1.5 | 2 | 2 | 10.65 | 17.39 | 0.00 | 0.61 | 0.00 |
| MATERIAL TESTER I | All | ALL | | 32.72 | 32.72 | 1.5 | 1.5 | 2 | 2 | 14.90 | 12.57 | 0.00 | 0.72 | 0.00 |
| MATERIALS TESTER II | All | ALL | | 40.37 | | 1.5 | 1.5 | 2 | 2 | 18.55 | 8.85 | 0.00 | 1.10 | 1.50 |
| MILLWRIGHT | All | ALL | | 46.35 | 48.35 | 1.5 | 1.5 | 2 | 2 | 13.05 | 18.87 | 0.00 | 0.00 | 0.00 |
| OPERATING ENGINEER | All | BLD | 1 | 51.10 | 55.10 | 2 | 2 | 2 | 2 | 19.65 | 15.10 | 2.00 | 1.40 | 0.00 |
| OPERATING ENGINEER | All | BLD | 2 | 49.80 | 55.10 | 2 | 2 | 2 | 2 | 19.65 | 15.10 | 2.00 | 1.40 | 0.00 |
| OPERATING ENGINEER | All | BLD | 3 | 47.25 | 55.10 | 2 | 2 | 2 | 2 | 19.65 | 15.10 | 2.00 | 1.40 | 0.00 |
| OPERATING ENGINEER | All | BLD | 4 | 45.50 | 55.10 | 2 | 2 | 2 | 2 | 19.65 | 15.10 | 2.00 | 1.40 | 0.00 |
| OPERATING ENGINEER | All | BLD | 5 | 54.85 | 55.10 | 2 | 2 | 2 | 2 | 19.65 | 15.10 | 2.00 | 1.40 | 0.00 |
| OPERATING ENGINEER | All | BLD | 6 | 53.10 | | 2 | 2 | 2 | 2 | 0.00 | 0.00 | 0.00 | 0.00 | 36.45 |
| OPERATING ENGINEER | All | BLD | 7 | 54.10 | 55.10 | 2 | 2 | 2 | 2 | 19.65 | 15.10 | 2.00 | 1.40 | 0.00 |
| OPERATING ENGINEER | All | FLT | 1 | 57.05 | 57.05 | 1.5 | 1.5 | 2 | 2 | 18.80 | 14.35 | 2.00 | 1.30 | 0.00 |
| OPERATING ENGINEER | All | FLT | 2 | 55.55 | 57.05 | 1.5 | 1.5 | 2 | 2 | 18.80 | 14.35 | 2.00 | 1.30 | 0.00 |
| OPERATING ENGINEER | All | FLT | 3 | 49.45 | 57.05 | 1.5 | 1.5 | 2 | 2 | 18.80 | 14.35 | 2.00 | 1.30 | 0.00 |
| OPERATING ENGINEER | All | FLT | 4 | 41.10 | 57.05 | 1.5 | 1.5 | 2 | 2 | 18.80 | 14.35 | 2.00 | 1.30 | 0.00 |
| OPERATING ENGINEER | All | FLT | 5 | 58.55 | 57.05 | 1.5 | 1.5 | 2 | 2 | 18.80 | 14.35 | 2.00 | 1.30 | 0.00 |
| OPERATING ENGINEER | All | FLT | 6 | 38.00 | 57.05 | 1.5 | 1.5 | 2 | 2 | 18.80 | 14.35 | 2.00 | 1.30 | 0.00 |
| OPERATING ENGINEER | All | HWY | 1 | 49.30 | 53.30 | 1.5 | 1.5 | 2 | 2 | 18.80 | 14.35 | 2.00 | 1.30 | 0.00 |
| OPERATING ENGINEER | All | HWY | 2 | 48.75 | 53.30 | 1.5 | 1.5 | 2 | 2 | 19.65 | 15.10 | 2.00 | 1.40 | 1.13 |
| OPERATING ENGINEER | All | HWY | 3 | 46.70 | 53.30 | 1.5 | 1.5 | 2 | 2 | 19.65 | 15.10 | 2.00 | 1.40 | 0.00 |
| OPERATING ENGINEER | All | HWY | 4 | 51.20 | | 1.5 | 1.5 | 2 | 2 | 18.00 | 21.28 | 1.50 | 0.15 | 0.00 |
| OPERATING ENGINEER | All | HWY | 5 | 44.10 | 53.30 | 1.5 | 1.5 | 2 | 2 | 19.65 | 15.10 | 2.00 | 1.40 | 0.00 |

Prevailing Wage Rates for Cook County (Updated 12/26/2018)

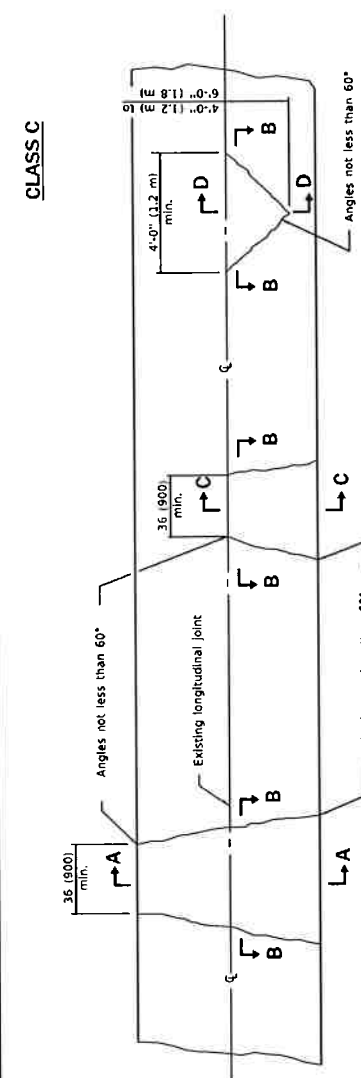
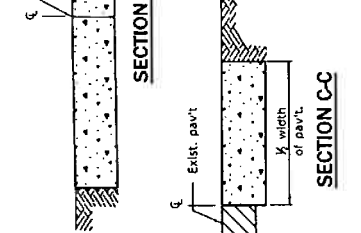
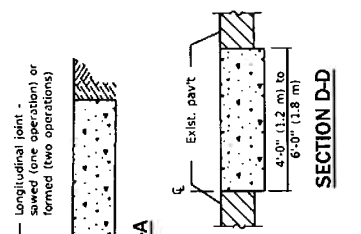
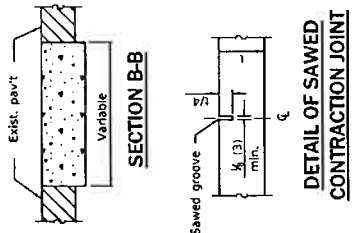
| Trade Title | Region | Type | Class | Base Wage | Remain Wa | OT M-F | OT Sa | OT Su | OT Hol | HW | Pension | Vacation | Training | Fringe Benefit |
|----------------------|--------|------|-------|-----------|-----------|--------|-------|-------|--------|-------|---------|----------|----------|----------------|
| OPERATING ENGINEER | All | HWY | 6 | 52.30 | 53.30 | 1.5 | 1.5 | 2 | 2 | 19.65 | 15.10 | 2.00 | 1.40 | 0.00 |
| OPERATING ENGINEER | All | HWY | 7 | 50.30 | 53.30 | 1.5 | 1.5 | 2 | 2 | 19.65 | 15.10 | 2.00 | 1.40 | 0.00 |
| ORNAMNTL IRON WORKER | All | ALL | | 48.05 | 50.55 | 2 | 2 | 2 | 2 | 14.09 | 20.59 | 0.00 | 1.25 | 0.38 |
| PAINTER | All | ALL | | 46.55 | 52.36 | 1.5 | 1.5 | 1.5 | 2 | 11.81 | 11.94 | 0.00 | 1.87 | 0.00 |
| PAINTER SIGNS | All | BLD | | 39.24 | 0.00 | 1.5 | 1.5 | 1.5 | 2 | 2.60 | 3.18 | 0.00 | 0.00 | 0.00 |
| PILEDRIWER | All | ALL | | 47.35 | 49.35 | 1.5 | 1.5 | 2 | 2 | 11.79 | 20.41 | 0.00 | 0.63 | 0.00 |
| PIPEFITTER | All | BLD | | 48.50 | 51.50 | 1.5 | 1.5 | 2 | 2 | 10.05 | 18.85 | 0.00 | 2.54 | 0.00 |
| PLASTERER | All | BLD | | 43.25 | 45.85 | 1.5 | 1.5 | 2 | 2 | 14.25 | 16.69 | 0.00 | 1.35 | 0.00 |
| PLUMBER | All | BLD | | 50.25 | 53.25 | 1.5 | 1.5 | 2 | 2 | 9.73 | 12.44 | 0.00 | 0.53 | 0.00 |
| ROOFER | All | BLD | | 43.65 | 47.65 | 1.5 | 1.5 | 2 | 2 | 11.35 | 24.68 | 0.00 | 1.68 | 0.00 |
| SHEETMETAL WORKER | All | BLD | | 44.25 | 47.79 | 1.5 | 1.5 | 2 | 2 | 4.85 | 3.28 | 0.00 | 0.00 | 0.00 |
| SIGN HANGER | All | BLD | | 31.31 | | 1.5 | 1.5 | 2 | 2 | 13.25 | 15.90 | 0.00 | 0.68 | 0.00 |
| SPRINKLER FITTER | All | BLD | | 48.10 | 50.60 | 1.5 | 1.5 | 2 | 2 | 13.45 | 19.59 | 0.00 | 0.35 | |
| STEEL ERECTOR | All | ALL | | 42.07 | 44.07 | 2 | 2 | 2 | 2 | 10.65 | 17.92 | 0.00 | 0.92 | 0.00 |
| STONE MASON | All | BLD | | 46.19 | 50.81 | 1.5 | 1.5 | 2 | 2 | 10.75 | 13.71 | 0.00 | 0.86 | 0.00 |
| TERRAZZO FINISHER | All | BLD | | 41.54 | 44.54 | 1.5 | 1.5 | 2 | 2 | 10.75 | 15.17 | 0.00 | 0.89 | 0.00 |
| TERRAZZO MASON | All | BLD | | 45.38 | 48.88 | 1.5 | 1.5 | 2 | 2 | 10.75 | 14.99 | 0.00 | 0.90 | 0.00 |
| TILE MASON | All | BLD | | 46.49 | 50.49 | 1.5 | 1.5 | 2 | 2 | 8.90 | 9.27 | 0.00 | 0.50 | 0.00 |
| TRAFFIC SAFETY WRKR | All | HWY | | 37.00 | 38.60 | 1.5 | 1.5 | 2 | 2 | 8.60 | 10.61 | 1.00 | 0.15 | 1.00 |
| TRUCK DRIVER | E | ALL | 1 | 35.60 | | 1.5 | 1.5 | 2 | 2 | 9.68 | 13.25 | 0.00 | 0.15 | 0.00 |
| TRUCK DRIVER | E | ALL | 2 | 36.70 | 37.10 | 1.5 | 1.5 | 2 | 2 | 9.68 | 13.25 | 0.00 | 0.15 | 0.00 |
| TRUCK DRIVER | E | ALL | 3 | 36.90 | | 1.5 | 1.5 | 2 | 2 | 9.68 | 13.25 | 0.00 | 0.15 | 0.00 |
| TRUCK DRIVER | E | ALL | 4 | 37.10 | | 1.5 | 1.5 | 2 | 2 | 9.68 | 13.25 | 0.00 | 0.15 | 0.00 |
| TRUCK DRIVER | W | ALL | 1 | 37.69 | | 1.5 | 1.5 | 2 | 2 | 10.50 | 8.50 | 0.00 | 0.15 | 0.00 |
| TRUCK DRIVER | W | ALL | 2 | 36.13 | | 1.5 | 1.5 | 2 | 2 | 18.85 | 8.85 | 0.00 | 2.60 | 0.00 |
| TRUCK DRIVER | W | ALL | 3 | 40.34 | | 1.5 | 1.5 | 2 | 2 | 10.47 | 12.50 | 0.00 | 0.50 | 2.81 |
| TRUCK DRIVER | W | ALL | 4 | 38.16 | | 1.5 | 1.5 | 2 | 2 | 8.90 | 11.16 | 0.00 | 0.50 | 0.00 |
| TUCKPOINTER | All | BLD | | 46.00 | 48.00 | 1.5 | 1.5 | 2 | 2 | 8.34 | 16.81 | 0.00 | 0.93 | 0.00 |

Prevailing Wage Rates for Lake County (Updated 12/26/2018)

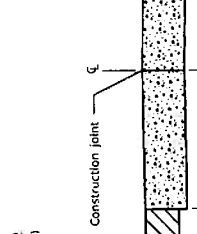
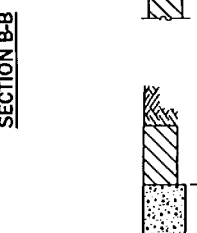
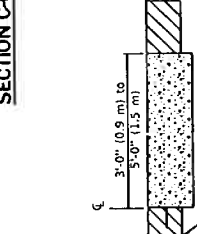
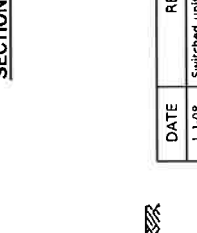
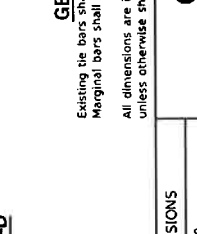
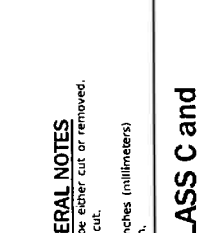
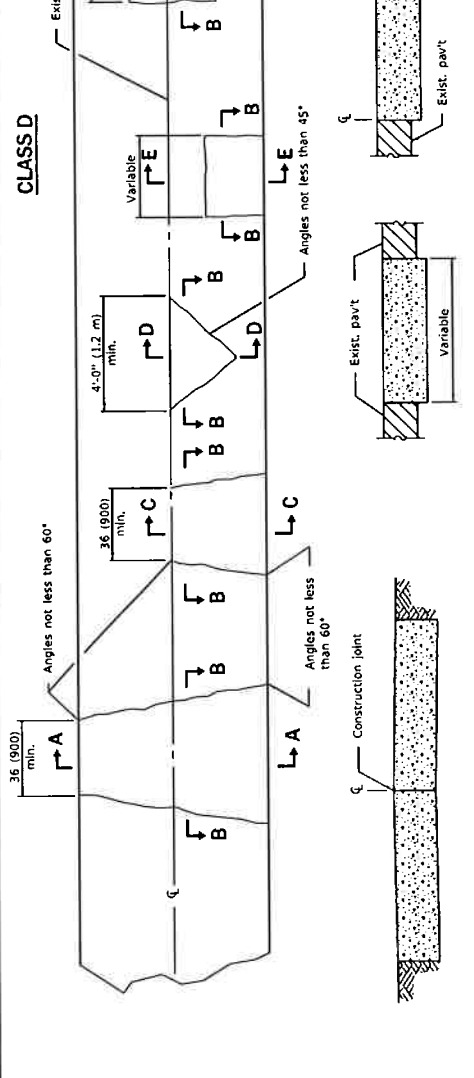
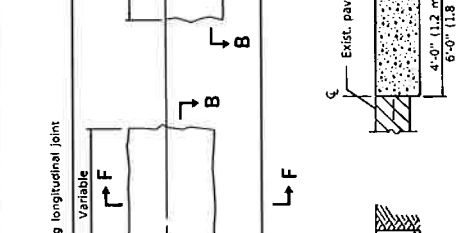
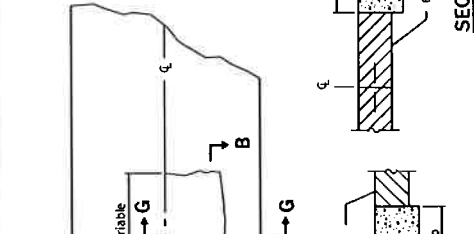
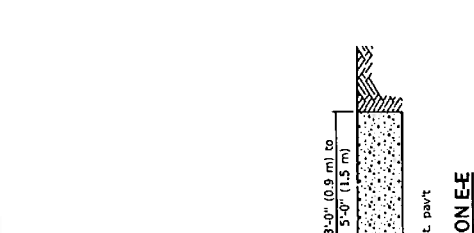
| Trade Title | Region | Type | Class | Base Wagereman Wa | OT M-F | OT Sa | OT Su | OT Hol | H/W | Pension | Vacation | Training | Fringe Benefit |
|----------------------|--------|------|-------|-------------------|--------|-------|-------|--------|-------|---------|----------|----------|----------------|
| ASBESTOS ABT-GEN | All | ALL | | 42.72 | 1.5 | 1.5 | 2 | 2 | 14.90 | 12.57 | 0.00 | 0.72 | 0.00 |
| ASBESTOS ABT-MEC | All | BLD | | 37.88 | 1.5 | 1.5 | 2 | 2 | 12.92 | 11.82 | 0.00 | 0.72 | 0.00 |
| BOILERMAKER | All | BLD | | 49.46 | 2 | 2 | 2 | 2 | 6.97 | 20.41 | 0.00 | 0.40 | 0.00 |
| BRICK MASON | All | BLD | | 46.19 | 1.5 | 1.5 | 2 | 2 | 10.65 | 17.92 | 0.00 | 0.92 | 0.00 |
| CARPENTER | All | ALL | | 47.35 | 1.5 | 1.5 | 2 | 2 | 11.79 | 20.41 | 0.00 | 0.63 | 0.00 |
| CEMENT MASON | All | ALL | | 45.53 | 2 | 2 | 2 | 2 | 10.25 | 22.38 | 0.00 | 0.59 | 0.00 |
| CERAMIC TILE FNISHER | All | BLD | | 39.56 | 1.5 | 1.5 | 2 | 2 | 10.75 | 12.02 | 0.00 | 0.77 | 0.00 |
| COMMUNICATION TECH | All | BLD | | 36.95 | 1.5 | 1.5 | 2 | 2 | 11.72 | 7.35 | 2.17 | 0.55 | 7.94 |
| ELECTRIC PWR EQMT OP | All | ALL | | 42.59 | 1.5 | 1.5 | 2 | 2 | 5.75 | 13.21 | 0.00 | 0.75 | 0.00 |
| ELECTRIC PWR EQMT OP | All | HWY | | 41.45 | 1.5 | 1.5 | 2 | 2 | 5.50 | 12.87 | 0.00 | 0.73 | 0.00 |
| ELECTRIC PWR GRNDMAN | All | ALL | | 32.86 | 1.5 | 1.5 | 2 | 2 | 5.75 | 10.20 | 0.00 | 0.58 | 0.00 |
| ELECTRIC PWR GRNDMAN | All | HWY | | 32.00 | 1.5 | 1.5 | 2 | 2 | 5.50 | 9.92 | 0.00 | 0.66 | 0.00 |
| ELECTRIC PWR LINEMAN | All | ALL | | 51.06 | 1.5 | 1.5 | 2 | 2 | 5.75 | 15.85 | 0.00 | 0.90 | 0.00 |
| ELECTRIC PWR LINEMAN | All | HWY | | 49.67 | 1.5 | 1.5 | 2 | 2 | 5.50 | 15.40 | 0.00 | 0.88 | 0.00 |
| ELECTRIC PWR TRK DRV | All | ALL | | 34.03 | 1.5 | 1.5 | 2 | 2 | 5.75 | 10.55 | 0.00 | 0.60 | 0.00 |
| ELECTRIC PWR TRK DRV | All | HWY | | 33.14 | 1.5 | 1.5 | 2 | 2 | 5.50 | 10.29 | 0.00 | 0.59 | 0.00 |
| ELECTRICIAN | All | BLD | | 40.00 | 1.5 | 1.5 | 2 | 2 | 14.10 | 20.29 | 6.00 | 0.65 | 0.00 |
| ELEVATOR CONSTRUCTOR | All | BLD | | 54.85 | 1.5 | 1.5 | 2 | 2 | 15.43 | 9.71 | 4.39 | 0.61 | 6.90 |
| FENCE ERECTOR | All | ALL | | 39.58 | 1.5 | 1.5 | 2 | 2 | 13.40 | 13.90 | 0.00 | 0.40 | 0.00 |
| GLAZIER | All | BLD | | 43.85 | 1.5 | 1.5 | 2 | 2 | 14.17 | 21.11 | 0.00 | 0.94 | 0.00 |
| HT/FROST INSULATOR | All | BLD | | 50.50 | 1.5 | 1.5 | 2 | 2 | 12.92 | 13.16 | 0.00 | 0.72 | 0.00 |
| IRON WORKER | All | ALL | | 48.83 | 2 | 2 | 2 | 2 | 14.15 | 23.28 | 4.00 | 0.35 | 0.00 |
| LABORER | All | ALL | | 42.72 | 1.5 | 1.5 | 2 | 2 | 13.77 | 13.70 | 0.00 | 0.96 | 0.00 |
| LATHER | All | ALL | | 47.35 | 1.5 | 1.5 | 2 | 2 | 11.79 | 20.41 | 0.00 | 0.63 | 0.00 |
| MACHINIST | All | BLD | | 48.38 | 1.5 | 1.5 | 2 | 2 | 7.23 | 8.95 | 1.85 | 1.47 | 0.00 |
| MARBLE FINISHERS | All | ALL | | 34.65 | 1.5 | 1.5 | 2 | 2 | 10.65 | 16.46 | 0.00 | 0.49 | 0.00 |
| MARBLE MASON | All | BLD | | 45.43 | 1.5 | 1.5 | 2 | 2 | 10.65 | 17.39 | 0.00 | 0.61 | 0.00 |
| MATERIAL TESTER I | All | ALL | | 32.72 | 1.5 | 1.5 | 2 | 2 | 14.90 | 12.57 | 0.00 | 0.72 | 0.00 |
| MATERIALS TESTER II | All | ALL | | 37.72 | 1.5 | 1.5 | 2 | 2 | 14.90 | 12.57 | 0.00 | 0.72 | 0.00 |
| MILLWRIGHT | All | ALL | | 47.35 | 1.5 | 1.5 | 2 | 2 | 11.79 | 20.41 | 0.00 | 0.63 | 0.00 |
| OPERATING ENGINEER | All | BLD | 1 | 50.10 | 1.5 | 1.5 | 2 | 2 | 18.80 | 14.35 | 2.00 | 1.30 | 0.00 |
| OPERATING ENGINEER | All | BLD | 2 | 48.80 | 1.5 | 1.5 | 2 | 2 | 18.80 | 14.35 | 2.00 | 1.30 | 0.00 |
| OPERATING ENGINEER | All | BLD | 3 | 47.25 | 2 | 2 | 2 | 2 | 19.65 | 15.10 | 2.00 | 1.40 | 0.00 |
| OPERATING ENGINEER | All | BLD | 4 | 45.50 | 2 | 2 | 2 | 2 | 19.65 | 15.10 | 2.00 | 1.40 | 0.00 |
| OPERATING ENGINEER | All | BLD | 5 | 54.85 | 2 | 2 | 2 | 2 | 19.65 | 15.10 | 2.00 | 1.40 | 0.00 |
| OPERATING ENGINEER | All | BLD | 6 | 52.10 | 2 | 2 | 2 | 2 | 19.65 | 15.10 | 2.00 | 1.40 | 0.00 |
| OPERATING ENGINEER | All | BLD | 7 | 53.10 | 2 | 2 | 2 | 2 | 0.00 | 0.00 | 0.00 | 0.00 | 36.45 |
| OPERATING ENGINEER | All | FLT | 1 | 57.05 | 1.5 | 1.5 | 2 | 2 | 18.80 | 14.35 | 2.00 | 1.30 | 0.00 |
| OPERATING ENGINEER | All | FLT | 2 | 55.55 | 1.5 | 1.5 | 2 | 2 | 18.80 | 14.35 | 2.00 | 1.30 | 0.00 |
| OPERATING ENGINEER | All | FLT | 3 | 49.45 | 1.5 | 1.5 | 2 | 2 | 18.80 | 14.35 | 2.00 | 1.30 | 0.00 |
| OPERATING ENGINEER | All | FLT | 4 | 40.25 | 1.5 | 1.5 | 1.5 | 1.5 | 18.05 | 13.60 | 1.90 | 1.30 | 0.00 |
| OPERATING ENGINEER | All | FLT | 5 | 58.55 | 1.5 | 1.5 | 2 | 2 | 18.80 | 14.35 | 2.00 | 1.30 | 0.00 |
| OPERATING ENGINEER | All | FLT | 6 | 38.00 | 1.5 | 1.5 | 2 | 2 | 18.80 | 14.35 | 2.00 | 1.30 | 0.00 |

Prevailing Wage Rates for Lake County (Updated 12/26/2018)

| Trade Title | Region | Type | Class | Base Wage | Reman Wa | OT M F | OT Sa | OT Su | OT Hol | HW | Pension | Vacation | Training | Fringe Benefit |
|----------------------|--------|------|-------|-----------|----------|--------|-------|-------|--------|-------|---------|----------|----------|----------------|
| OPERATING ENGINEER | All | HWY | 1 | 49.30 | 53.30 | 1.5 | 1.5 | 2 | 2 | 19.65 | 15.10 | 2.00 | 1.40 | 0.00 |
| OPERATING ENGINEER | All | HWY | 2 | 48.75 | 53.30 | 1.5 | 1.5 | 2 | 2 | 19.65 | 15.10 | 2.00 | 1.40 | 0.00 |
| OPERATING ENGINEER | All | HWY | 3 | 46.70 | 53.30 | 1.5 | 1.5 | 2 | 2 | 19.65 | 15.10 | 2.00 | 1.40 | 0.00 |
| OPERATING ENGINEER | All | HWY | 4 | 44.30 | | 1.5 | 1.5 | 2 | 2 | 18.80 | 14.35 | 2.00 | 1.30 | 0.00 |
| OPERATING ENGINEER | All | HWY | 5 | 43.10 | | 1.5 | 1.5 | 2 | 2 | 7.48 | 4.50 | 1.50 | 0.10 | 22.87 |
| OPERATING ENGINEER | All | HWY | 6 | 52.30 | 53.30 | 1.5 | 1.5 | 2 | 2 | 19.65 | 15.10 | 2.00 | 1.40 | 0.00 |
| OPERATING ENGINEER | All | HWY | 7 | 50.30 | 53.30 | 1.5 | 1.5 | 2 | 2 | 19.65 | 15.10 | 2.00 | 1.40 | 0.00 |
| ORNAMNTL IRON WORKER | All | ALL | | 48.05 | 50.55 | 2 | 2 | 2 | 2 | 14.09 | 20.59 | 0.00 | 0.00 | 0.00 |
| PAINTER | All | ALL | | 46.55 | 52.36 | 1.5 | 1.5 | 1.5 | 2 | 11.81 | 11.94 | 0.00 | 1.87 | 0.00 |
| PAINTER SIGNS | All | BLD | | 38.20 | 43.25 | 1.5 | 1.5 | 2 | 2 | 2.60 | 3.25 | 0.00 | 0.00 | 0.00 |
| PILEDRIIVER | All | ALL | | 47.35 | 49.35 | 1.5 | 1.5 | 2 | 2 | 11.79 | 20.41 | 0.00 | 0.63 | 0.00 |
| PIPEFITTER | All | BLD | | 48.50 | 51.50 | 1.5 | 1.5 | 2 | 2 | 10.05 | 18.85 | 0.00 | 2.54 | 0.00 |
| PLASTERER | All | BLD | | 45.40 | 47.40 | 2 | 1.5 | 2 | 2 | 10.25 | 22.68 | 0.00 | 0.50 | 0.00 |
| PLUMBER | All | BLD | | 50.25 | 53.25 | 1.5 | 1.5 | 2 | 2 | 14.35 | 14.42 | 0.00 | 1.31 | 0.00 |
| ROOFER | All | BLD | | 43.65 | 47.65 | 1.5 | 1.5 | 2 | 2 | 9.73 | 12.44 | 0.00 | 0.53 | 0.00 |
| SHEETMETAL WORKER | All | BLD | | 44.25 | | 1.5 | 1.5 | 2 | 2 | 11.35 | 24.68 | 0.00 | 0.81 | 0.00 |
| SIGN HANGER | All | BLD | | 45.75 | 47.25 | 1.5 | 1.5 | 2 | 2 | 5.87 | 11.26 | 0.00 | 0.49 | 3.20 |
| SPRINKLER FITTER | All | BLD | | 48.10 | 50.60 | 1.5 | 1.5 | 2 | 2 | 12.75 | 13.65 | 0.00 | 0.55 | 0.00 |
| STEEL ERECTOR | All | ALL | | 42.07 | 44.07 | 2 | 2 | 2 | 2 | 13.45 | 19.59 | 0.00 | 0.35 | |
| STONE MASON | All | BLD | | 46.19 | 50.81 | 1.5 | 1.5 | 2 | 2 | 10.65 | 17.92 | 0.00 | 0.92 | 0.00 |
| TERRAZZO FINISHER | All | BLD | | 41.54 | 44.54 | 1.5 | 1.5 | 2 | 2 | 10.75 | 13.71 | 0.00 | 0.86 | 0.00 |
| TERRAZZO MASON | All | BLD | | 45.38 | 48.88 | 1.5 | 1.5 | 2 | 2 | 10.75 | 15.17 | 0.00 | 0.89 | 0.00 |
| TILE MASON | All | BLD | | 46.49 | 50.49 | 1.5 | 1.5 | 2 | 2 | 10.75 | 14.99 | 0.00 | 0.90 | 0.00 |
| TRAFFIC SAFETY WRKR | All | HWY | | 36.00 | 37.60 | 1.5 | 1.5 | 2 | 1.5 | 7.05 | 8.00 | 1.70 | 1.20 | 0.00 |
| TRUCK DRIVER | All | ALL | 1 | 37.05 | | 1.5 | 1.5 | 2 | 2 | 8.60 | 10.61 | 1.00 | 0.15 | 0.00 |
| TRUCK DRIVER | All | ALL | 2 | 37.20 | | 1.5 | 1.5 | 2 | 2 | 9.50 | 7.50 | 0.00 | 0.15 | 0.00 |
| TRUCK DRIVER | All | ALL | 3 | 40.34 | | 1.5 | 1.5 | 2 | 2 | 10.47 | 12.50 | 0.00 | 0.50 | 2.81 |
| TRUCK DRIVER | All | ALL | 4 | 37.10 | | 1.5 | 1.5 | 2 | 2 | 9.68 | 13.25 | 0.00 | 0.20 | 0.00 |
| TUCKPOINTER | All | BLD | | 46.00 | 47.00 | 1.5 | 1.5 | 2 | 2 | 8.34 | 16.81 | 0.00 | 0.93 | 0.00 |



Note: Longitudinal joints shall be as detailed on Standard 420001, except tie bars are not required for patches 20'-0" (6.0 m) or less in length.

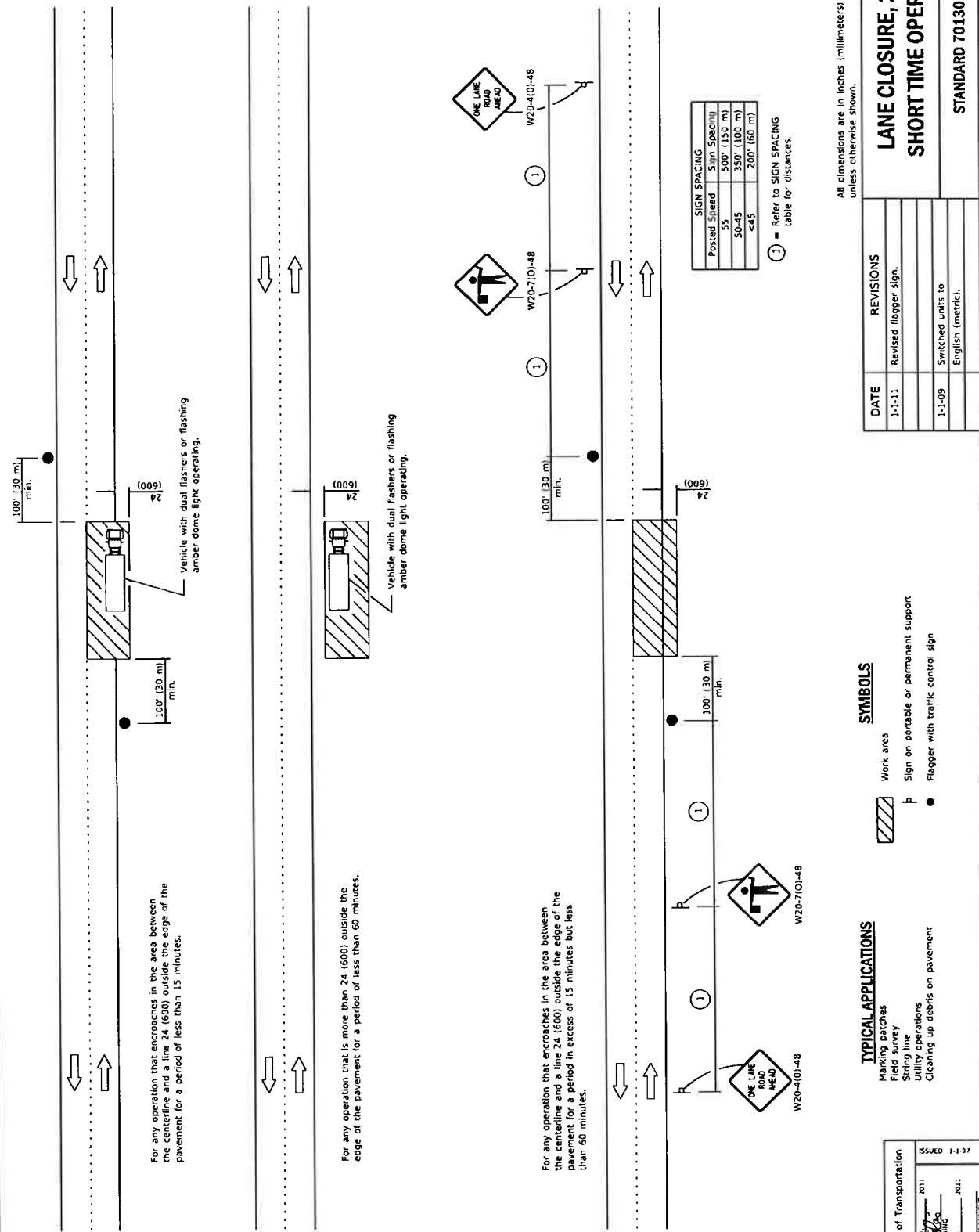


GENERAL NOTES
Existing tie bars shall be either cut or removed. Marginal bars shall be cut. All dimensions are in inches (millimeters) unless otherwise shown.

| CLASS C and D PATCHES | | STANDARD 442201-03 | |
|-----------------------|--------|--------------------|-------------------------------------|
| DATE | 1-1-08 | REVISIONS | Switched units to English (metric). |
| | | | Revised Note for Class C patches. |

Illinois Department of Transportation
 PASSED January 1, 2008
 ENGINEER OF PUBLIC WORKS PROCEDURES
 APPROVED [Signature] January 1, 2008
 ENGINEER OF DESIGN AND ENVIRONMENT

ISSUED 1-1-97



| SIGN SPACING | |
|--------------|--------------|
| Posted Speed | Sign Spacing |
| 55 | 500' (150 m) |
| 50-45 | 350' (100 m) |
| <45 | 200' (60 m) |

① = Refer to SIGN SPACING table for distances.

All dimensions are in inches (millimeters) unless otherwise shown.

| DATE | REVISIONS |
|--------|-------------------------------------|
| 1-1-11 | Revised flagger sign. |
| 1-1-09 | Switched units to English (metric). |

LANE CLOSURE, 2L, 2W, SHORT TIME OPERATIONS

STANDARD 701301-04

SYMBOLS

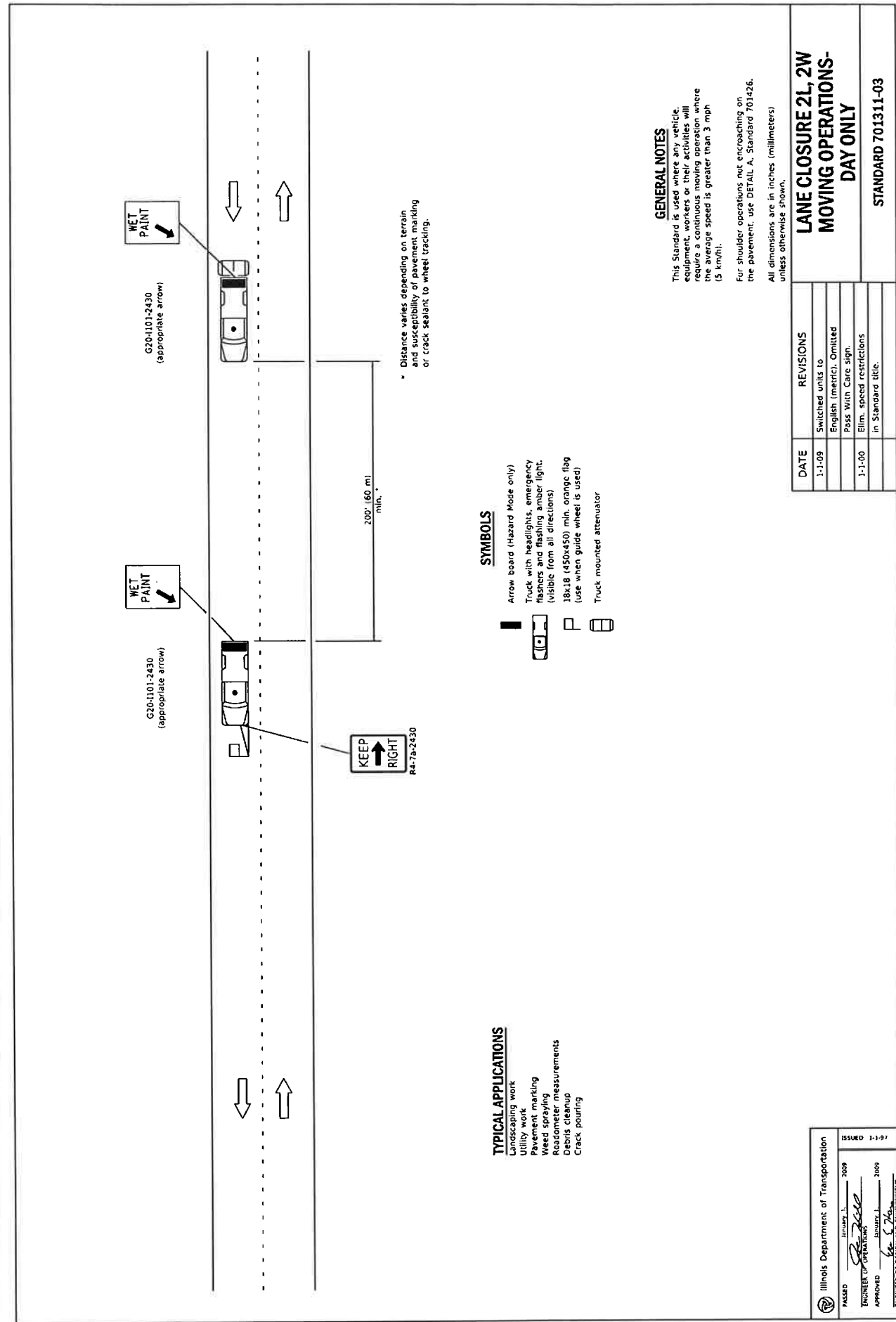
- Work area
- Sign on portable or permanent support
- Flagger with traffic control sign

TYPICAL APPLICATIONS

- Marking patches
- Field survey
- Shifting lane operations
- Utility operations
- Cleaning up debris on pavement

PASSED: [Signature] 2011
 APPROVED: [Signature] 2011
 ENGINEER OF DESIGN AND ENVIRONMENT

ISSUED: 1-1-97



TYPICAL APPLICATIONS

- Landscaping work
- Utility work
- Pavement marking
- Weed spraying
- Roadometer measurements
- Debris cleanup
- Crack pouring

SYMBOLS

- Arrow board (Hazard Mode only)
- Truck with headlights, emergency flashers and flashing amber light, (visible from all directions)
- 18x18 (450x450) min. orange flag (use when guide wheel is used)
- Truck mounted attenuator

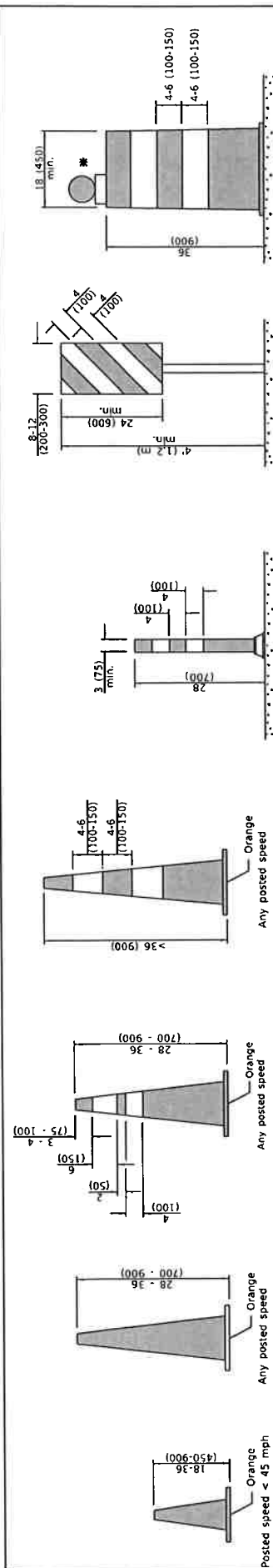
GENERAL NOTES

This Standard is used where any vehicle, equipment, workers or their activities will require a continuous moving operation where the average speed is greater than 3 mph (5 km/h).

For shoulder operations not encroaching on the pavement, use DETAIL A, Standard 701426. All dimensions are in inches (millimeters) unless otherwise shown.

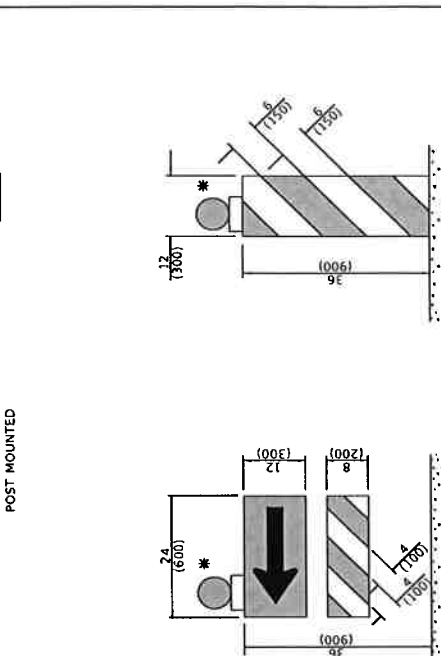
| LANE CLOSURE 2L, 2W MOVING OPERATIONS- DAY ONLY | |
|---|---|
| DATE | REVISIONS |
| 1-1-09 | Switched units to English (metric). Omitted |
| | Pass With Care sign. |
| 1-1-00 | Elim. speed restrictions in Standard title. |

Illinois Department of Transportation
 ISSUED 1-1-97
 PASSED January 1, 2009
 ENGINEER OF OPERATIONS
 APPROVED [Signature] 2/6/09
 ENGINEER OF DESIGN AND ENVIRONMENT



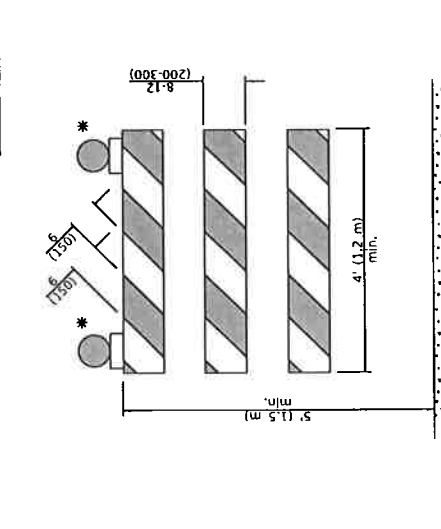
DAYTIME USE
 Posted speed < 45 mph
 Orange
 Any posted speed

DAY OR NIGHTTIME USE
 Orange
 Any posted speed



TUBULAR MARKER

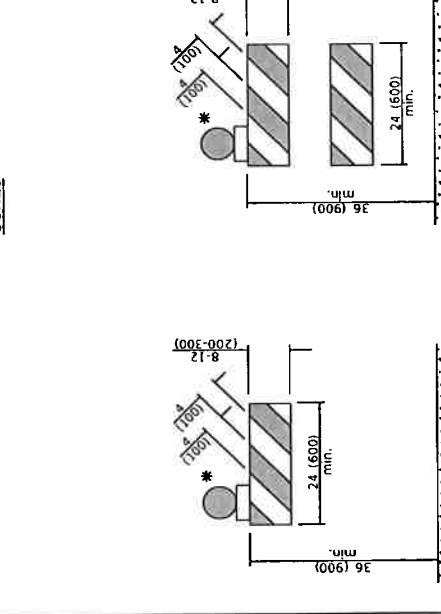
**VERTICAL PANEL
 POST MOUNTED**



TYPE I BARRICADE

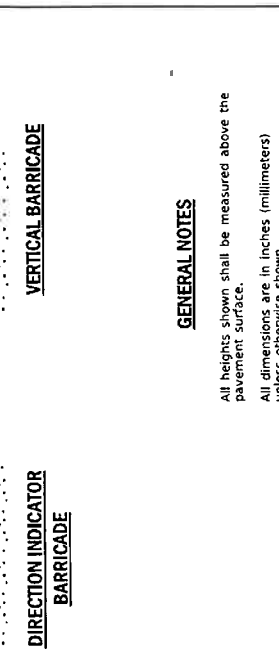
TYPE II BARRICADE

TYPE III BARRICADE

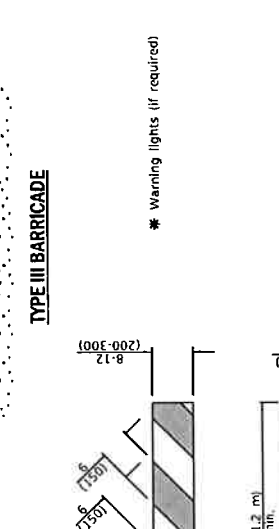


**DIRECTION INDICATOR
 BARRICADE**

VERTICAL BARRICADE



DRUM



**DETECTABLE PEDESTRIAN
 CHANNELIZING BARRICADE**

GENERAL NOTES

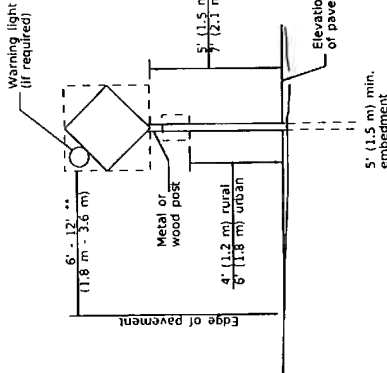
All heights shown shall be measured above the pavement surface.
 All dimensions are in inches (millimeters) unless otherwise shown.

| DATE | REVISIONS |
|--------|---|
| 1-1-19 | Revised cone usage and added cones >36" (900 mm) height. |
| 1-1-18 | Revised END WORK ZONE SPEED LIMIT sign from orange to white background. |

**TRAFFIC CONTROL
 DEVICES**

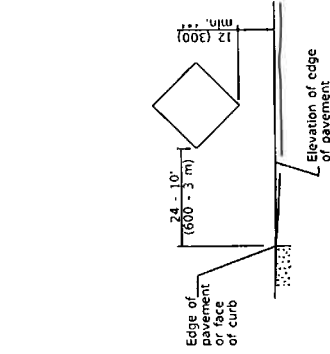
STANDARD 701901-08
 (Sheet 1 of 3)

Illinois Department of Transportation
 APPROVED: [Signature] January 1, 2019
 PROJECT: [Signature] ENGINEER
 APPROVED: [Signature] January 1, 2019
 ENGINEER OF DESIGN AND ENVIRONMENT



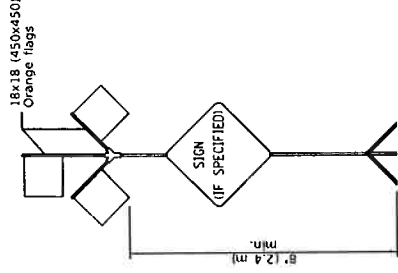
POST MOUNTED SIGNS

.. When curb or paved shoulder are present this dimension shall be 24 (600) to the face of curb or 6' (1.8 m) to the outside edge of the paved shoulder.



SIGNS ON TEMPORARY SUPPORTS

... When work operations exceed the width of the sign, the sign shall be 5' (1.5 m) min. If located behind other devices, the height shall be sufficient to be seen completely above the devices.



HIGH LEVEL WARNING DEVICE

ROAD CONSTRUCTION NEXT X MILES
G20-1104(01)-6036

END CONSTRUCTION
G20-1105(01)-6024

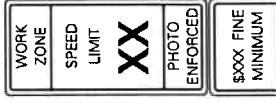
This signing is required for all projects 2 miles (3200 m) or more in length.

ROAD CONSTRUCTION NEXT X MILES sign shall be placed 500' (150 m) in advance of project limits.

END CONSTRUCTION sign shall be erected at the end of the project unless another job is within 2 miles (3200 m).

Dual sign displays shall be utilized on multi-lane highways.

WORK LIMIT SIGNING



W21-1115(01)-3618

R2-1-3648

R10-1108p-3618

R2-1106p-3618

Sign assembly as shown on Standards or as allowed by District Operations.

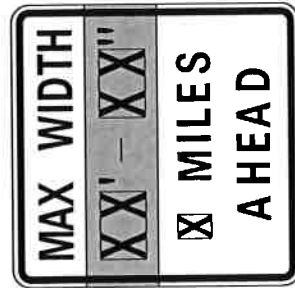


G20-1103-6036

This sign shall be used when the above sign assembly is used.

HIGHWAY CONSTRUCTION SPEED ZONE SIGNS

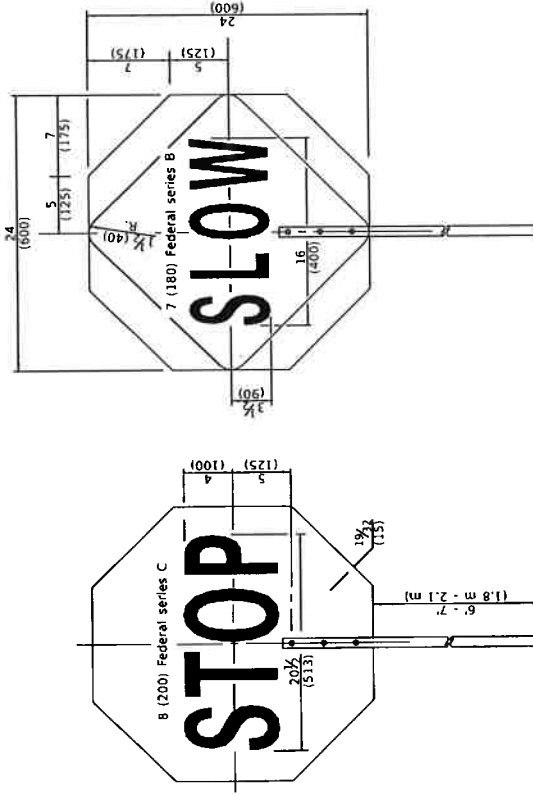
.... R10-1108p shall only be used along roadways under the jurisdiction of the State.



W12-1103-4848

WIDTH RESTRICTION SIGN

XX'-XX" width and X miles are variable.



REVERSE SIDE

FRONT SIDE

TRAFFIC CONTROL DEVICES

(Sheet 2 of 3)

STANDARD 701901-08

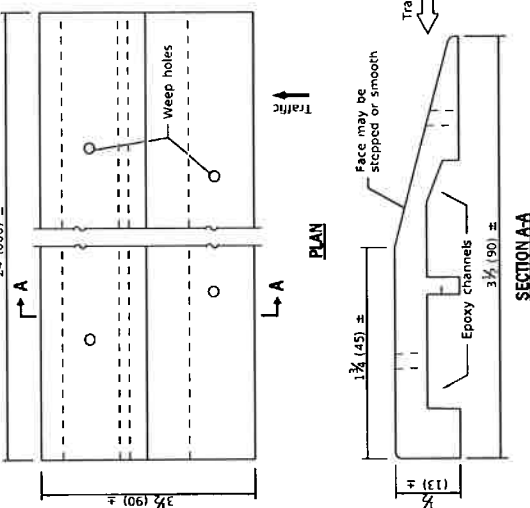
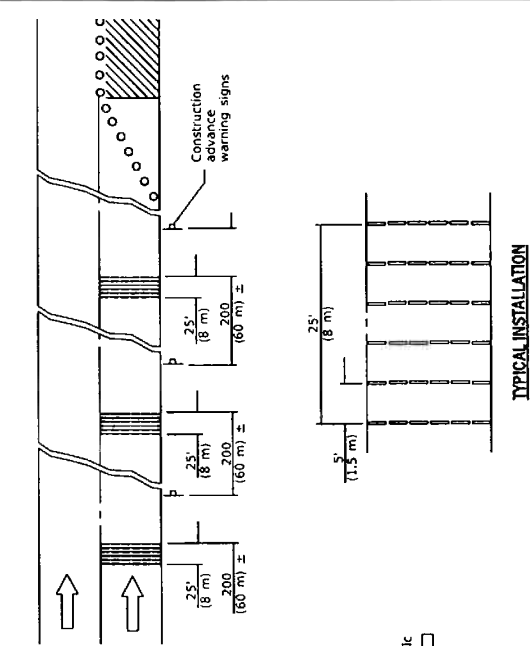
FLAGGER TRAFFIC CONTROL SIGN

Illinois Department of Transportation

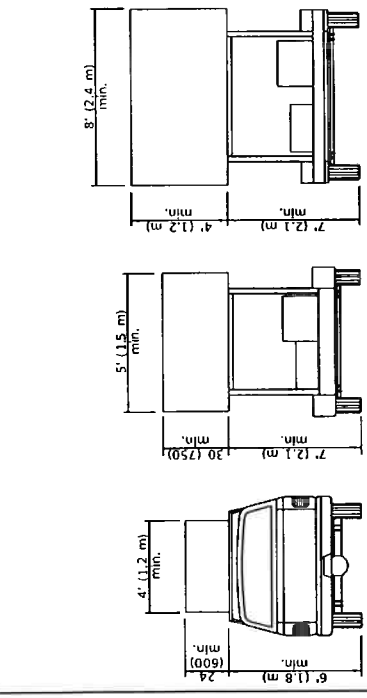
APPROVED: [Signature] January 1, 2019
 ENGINEER OF SAFETY PRIC. AND ENGINEERING

APPROVED: [Signature] January 1, 2019
 ENGINEER OF DESIGN AND ENVIRONMENT

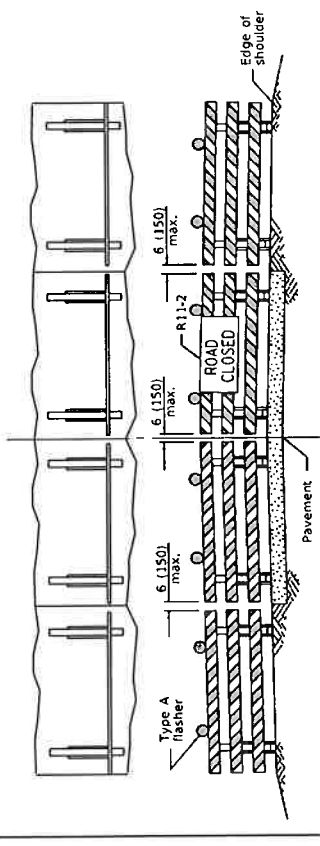
ISSUED: 1-1-13



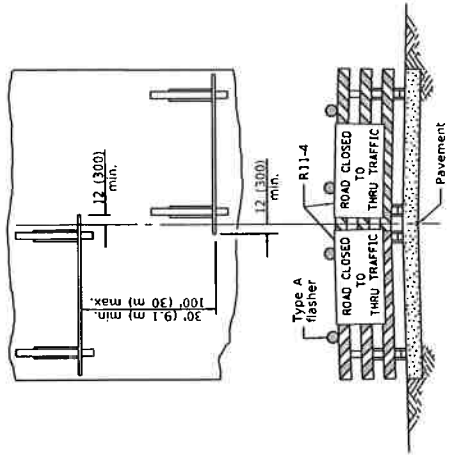
TEMPORARY RUMBLE STRIPS



ARROW BOARDS



ROAD CLOSED TO ALL TRAFFIC
 ReflectORIZED striping may be omitted on the back side of the barricades. If a Type III barricade with an attached sign panel which meets NCHRP 350 is available, the sign may be mounted on an NCHRP 350 temporary sign support directly in front of the barricade.



ROAD CLOSED TO THRU TRAFFIC
 ReflectORIZED striping shall appear on both sides of the barricades. If a Type III barricade with an attached sign panel which meets NCHRP 350 is not available, the signs may be mounted directly in front of the barricade.

TYPICAL APPLICATIONS OF TYPE III BARRICADES CLOSING A ROAD

Illinois Department of Transportation
 APPROVED: [Signature] January 1, 2019
 ENGINEER OF SAFETY, PUBLIC AND ENVIRONMENTAL ENGINEERING
 ISSUED: 1-1-13
 APPROVED: [Signature] January 1, 2019
 ENGINEER OF DESIGN AND ENVIRONMENT

TRAFFIC CONTROL DEVICES

STANDARD 701901-08
 (Sheet 3 of 3)

