

RETURN WITH BID



Illinois Department of Transportation

Local Public Agency
Formal Contract Proposal

| | | |
|-----------------------|----------|----------|
| PROPOSAL SUBMITTED BY | | |
| Contractor's Name | | |
| Street | P.O. Box | |
| City | State | Zip Code |

STATE OF ILLINOIS

COUNTY OF MCHENRY
GRAFTON TOWNSHIP
(Name of City, Village, Town or Road District)

FOR THE IMPROVEMENT OF
STREET NAME OR ROUTE NO. VARIOUS
SECTION NO. 14-08000-01-GM
TYPES OF FUNDS MFT & NON-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

Joseph R. Korpalski, Jr.
Regional Engineer

04.28.14
Date

For County and Road District Projects
Submitted/Approved

Tom Parnowski
County Engineer

4.25.2014
Date

Submitted/Approved

County Engineer/Superintendent of Highways

Date

County Engineer
On Behalf of IDOT pursuant to Agreement
of Understanding dated March 4, 2005

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

NOTICE TO BIDDERS

County McHenry
Local Public Agency Grafton Township
Section Number 14-08000-01-GM
Route Various

Sealed proposals for the improvement described below will be received at the office of McHenry County DOT,
16111 Nelson Road, Woodstock, IL 60098 until 9:00 AM on May 23, 2014
Address Time Date

Sealed proposals will be opened and read publicly at the office of McHenry County DOT
16111 Nelson Road, Woodstock, IL 60098 at 9:00 AM on May 23, 2014
Address Time Date

DESCRIPTION OF WORK

Name Grafton Township Resurfacing Length: 747000 feet (1.41 miles)
Location Adamson Road, Columbine Street
Proposed Improvement Construction of a 3/4" lift of HMA Leveling Binder, MM, N50 and 1-1/2" HMA Surface Course
IL 9.5, N50 along with necessary and related work.

1. Plans and proposal forms will be available in the office of McHenry County Division of Transportation
https://www.co.mchenry.il.us/county-government/departments-j-z/transportation/division-of-business/bid-documents
Address

2. Prequalification
If checked, the 2 low bidders must file within 24 hours after the filing of the "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 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 may be 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

PROPOSAL

County McHenry
Local Public Agency Grafton Township
Section Number 14-08000-01-GM
Route Various

1. Proposal of _____

for the improvement of the above section by the construction of Construction of a 3/4" lift of HMA Leveling Binder, MM, N50, and a 1-1/2" HMA Surface Course IL 9.5, N50 along with necessary and related work.

a total distance of 7470.00 feet, of which a distance of 7470.00 feet, (1.410 miles) are to be improved.

2. The plans for the proposed work are those prepared by McHenry County Division of Transportation 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 10/03/2014 unless additional time is granted in accordance with the specifications.

6. A proposal guaranty in the proper amount, as specified in BLRS Section 12200a 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 12200, or a proposal guaranty check, complying with the specifications, made payable to:

William LeFew Treasurer of McHenry County

The amount of the check is 5% Bid Bond (_____).

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 shall show 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.



SCHEDULE OF PRICES

County McHenry
 Local Public Agency Grafton Township
 Section 14-08000-01-GM
 Route Various

Schedule for Multiple Bids

| Combination Letter | Sections Included in Combinations | Total |
|--------------------|-----------------------------------|-------|
| | | |
| | | |
| | | |
| | | |

Schedule for Single Bid

(For complete information covering these items, see plans and specifications)

Bidder's Proposal for Entire Improvements

| Item No. | Items | Unit | Quantity | Unit Price | Total |
|----------|-------------------------|-------|----------|------------|-------|
| 1 | HMA SC IL 9.5 N50 | TON | 143 | | |
| 2 | HMA LVL BDR MM N50 | TON | 13 | | |
| 3 | BIT MATL PR CT | GAL | 1334 | | |
| 4 | AGG PR CT | TON | 32 | | |
| 5 | HMA SURF REM BUTT JT | SQ YD | 296 | | |
| 6 | CLASS D TYPE IV PATCH 4 | SQ YD | 867 | | |
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RETURN WITH BID

CONTRACTOR CERTIFICATIONS

| | |
|---------------------|-------------------------|
| County | <u>McHenry</u> |
| Local Public Agency | <u>Grafton Township</u> |
| Section Number | <u>14-08000-01-GM</u> |
| Route | <u>Various</u> |

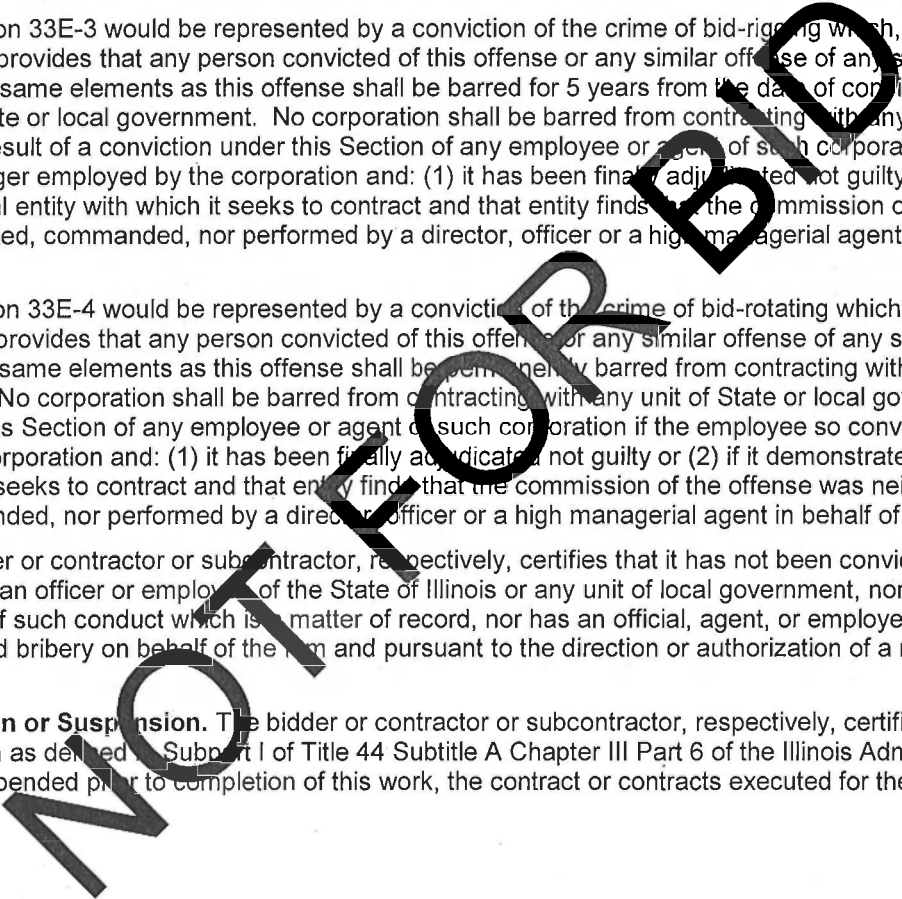
The certifications hereinafter made by the bidder are each a material representation of fact upon which reliance is placed should the Department enter into the contract with the bidder.

- 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.
- 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.

- 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.
- 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

SIGNATURES

County McHenry
Local Public Agency Grafton Township
Section Number 14-08000-01-GM
Route Various

(If an individual)

Signature of Bidder _____
Business Address _____

(If a partnership)

Firm Name _____
Signed By _____
Business Address _____

Insert Names and Addressed of All Partners

(If a corporation)

Corporate Name _____
Signed By _____
Business Address _____

Insert Names of Officers

{ President _____
Secretary _____
Treasurer _____

Attest: _____
Secretary

NOT FOR BID



Route Various
County McHenry
Local Agency Grafton Township
Section 14-08000-01-GM

RETURN WITH BID

PAPER BID BOND

WE _____ as PRINCIPAL,
and _____ 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 _____ day of _____

Principal

(Company Name) (Company Name)

By: (Signature and Title) 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 affixed.)

Surety

(Name of Surety) By: (Signature of Attorney-in-Fact)

STATE OF ILLINOIS,
COUNTY OF _____

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

(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 herein set forth.

Given under my hand and notarial seal this _____ day of _____

My commission expires _____ (Notary Public)

ELECTRONIC BID BOND

[] 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



Return with Bid

| | |
|--------------|------------------|
| Route | Various |
| County | McHenry |
| Local Agency | Grafton Township |
| Section | 14-08000-01-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.

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 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: _____

By: _____

(Signature)

Address: _____

Title: _____

NOT FOR BID



Illinois Department of Transportation

Affidavit of Illinois Business Office

County McHenry
Local Public Agency Grafton Township
Section Number 14-08000-01-GM
Route Various

State of _____)
County of _____) ss.

I, _____ of _____, _____,
(Name of Affiant) (City of Affiant) (State of Affiant)

being first duly sworn upon oath, states as follows:

- 1. That I am the _____ of _____ bidder
2. That I have personal knowledge of the facts herein stated.
3. That, if selected under this proposal, _____, will maintain a
business office in the State of Illinois which will be located in _____ 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.

NOT FOR BID

(Signature)

(Print Name of Affiant)

This instrument was acknowledged before me on _____ day of _____, _____.

(SEAL)

(Signature of Notary Public)



Route: Various

County: McHenry

Local Agency: Grafton Township

Section: 14-08000-01-GM

The Substance Abuse Prevention on Public Works Act, Public Act 95-0635, prohibits the use of drugs and alcohol, as defined in the Act, by employees of the Contractor and by employees of all approved Subcontractors while performing work on a public works project. The Contractor/Subcontractor herewith certifies that it has not entered into a collective bargaining agreement or makes the public filing of its written substance abuse prevention program for the prevention of substance abuse among its employees who are not covered by a collective bargaining agreement dealing with the subject as mandated by the Act.

A. The undersigned representative of the Contractor/Subcontractor certifies that the contracting entity has signed collective bargaining agreements that are in effect for all of its employees and that it deals with the subject matter of Public Act 95-0635.

Contractor/Subcontractor

Name of Authorized Representative (type or print)

Title of Authorized Representative (type or print)

Signature of Authorized Representative

Date

B. The undersigned representative of the Contractor/Subcontractor certifies that the contracting entity has in place for all of its employees not covered by a collective bargaining agreement that deals with the subject of the Act, the attached substance abuse prevention program that meets or exceeds the requirements of Public Act 95-0635.

Contractor/Subcontractor

Name of Authorized Representative (type or print)

Title of Authorized Representative (type or print)

Signature of Authorized Representative

Date

NOT FOR BID

McHenry County
Grafton Township
Section 14-08000-01-GM

**NOTICE TO CONTRACTORS
REGARDING FINAL PAYMENT**

This improvement is being funded by:

Township MFT Funds = \$90,000
Township Funds = Balance of Final Construction Costs

**NOTICE TO CONTRACTORS REGARDING
STRICT COMPLIANCE WITH COMPLETION DATE**

This contract is a completion date contract with an **October 3, 2014** completion deadline in accordance to Article 108 of the Standard Specifications. This deadline will be strictly enforced and shall include all pay items, specifically all base work, shoulder construction and removal of temporary traffic marking tape, when applicable.

NOTICE TO CONTRACTORS REGARDING WAIVERS

End of contract final waivers from all sub-contractors and material suppliers that perform work or provide materials under this contract must be submitted before final payment shall be made.

NOT FOR BID

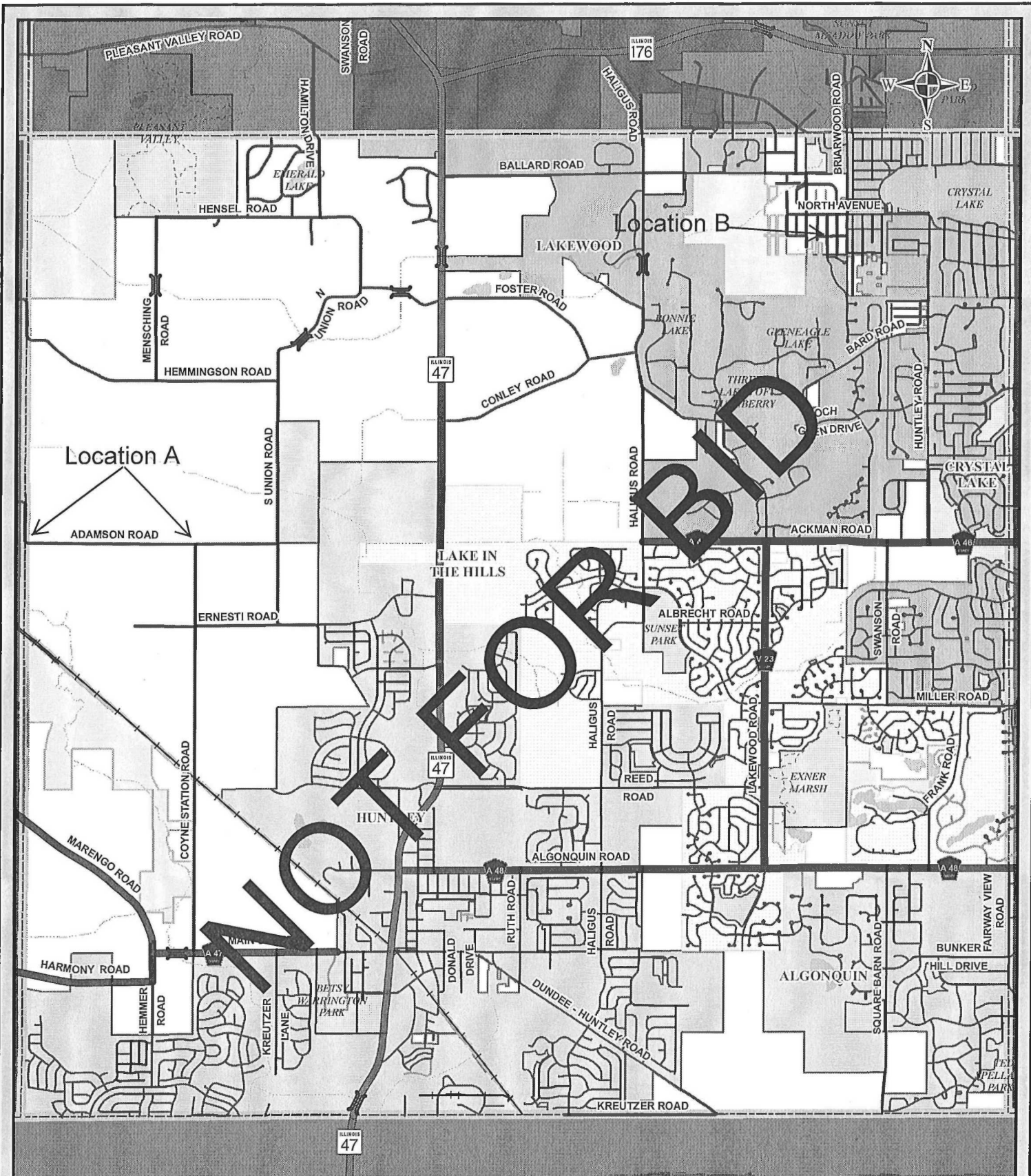
DESCRIPTION OF WORK

The location for this section is in Grafton Township, McHenry County, Illinois on various roads with an improvement length of 7,470 feet.

For Location A, Adamson Road, the work consists of the construction of a 1.5" lift of Hot Mix Asphalt Surface Course, IL 9.5, N50 along with necessary and related work as detailed in the Special Provisions and the Estimate of Quantities.

For Location B, Columbine Street, the work consists of the construction of a 0.75" lift (nominal thickness) of Leveling Binder (Machine Method), N50 and a 1.25" lift of Hot Mix Asphalt Surface Course, IL 9.5, N50 along with necessary and related work as detailed in the Special Provisions and the Estimate of Quantities.

NOT FOR BID



DISCLAIMER
 Information on this map may contain inaccuracies or typographical errors without notice. Information on this map is provided "as is" without warranty of any kind, either express or implied, including without limitation any implied warranties of merchantability or fitness for a particular purpose. In no event will liability be liable to you or to any third party for any direct, indirect, incidental, consequential, special or exemplary damages or loss, profits, resulting from any use or misuse of this information. Information herein has been reproduced from original sources. Information published on this map should not be used in place of a survey or legal documents.

DATE
 Wednesday, January 29, 2014

FILE
 11 - Grafton Township
 Transportation

PROJECTION
 Transverse Mercator
 NAD 1983 State Plane
 Illinois East

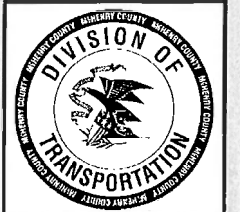
LEGEND

- County Route
- State/US Route
- Interstate Route
- Municipal/Township Route
- Rail Road
- Hydrography

SCALE
 1 inch = 4,100 feet

0 1,000 2,000 4,000 Feet

GRAFTON TOWNSHIP



PROJECT SUMMARY

McHenry County - Gratton Township Road District
Section 14-08000-01-GM

| Project | Begin Point | End Point | Length (ft) | Average Width (ft) | Improvements |
|---------------------------------------|----------------------------|--------------------|-------------|--------------------|--|
| Location A Adamsen Road | Coral Township Limit | Coral Station Road | 6170 | 21.0 | Hot-Mix Asphalt Surface Course, IL 9.5, N50, 1-1/2" |
| Location B Columbine Street | 75' North of Selkirk Court | Northavenue | 1300 | 21.0 | Leveling Binder (Machine Method) 3/4" Hot-Mix Asphalt Surface Course, IL 9.5, N50, 1-1/4" |

NOT FOR BID

ESTIMATE OF QUANTITIES
 McHenry County - Grafton Township Road District - Section 14-08000-01-GM

| Project | Length (FT) | Average Width (FT) | Area (SY) | Bit. Mat. (Prime) (GAL) | Agg. (Prime) (TONS) | 1-1/2" Hot-Mix Asphalt Surface (TONS) | 1-1/4" Hot-Mix Asphalt Surface (TONS) | 3/4" Leveling Binder (TONS) | Class D Type IV Patches 4" (SQ YD) | Hot-Mix Surface Rein But. Joint (SY) |
|-------------------|--------------|--------------------|---------------|-------------------------|---------------------|---------------------------------------|---------------------------------------|-----------------------------|------------------------------------|--------------------------------------|
| Location A | | | | | | | | | | |
| Adamson Road | 6,176 | 210 | 1,317 | 1,164 | 22 | 1,222 | - | - | - | 113 |
| Location B | | | | | | | | | | |
| Columbine Street | 1,300 | 210 | 3,250 | 520 | 10 | - | 228 | 137 | 867 | 183 |
| Total | 7,470 | | 17,966 | 1,684 | 32 | 1,222 | 228 | 137 | 867 | 296 |

Bituminous Materials (Prime Coat) was calculated on the basis of 0.08 gallons per square yard.
 Aggregate (Prime Coat) was calculated on the basis of three (3) pounds per square yard.
 Hot-Mix Asphalt mixtures were calculated on the basis of 112 pounds per inch per square yard.

NOT FOR

ESTIMATE OF QUANTITIES

McHenry County - Grafton Township Road District - Section 14-08000-01-GM

Hot-Mix Asphalt Surface Removal - Butt Joint

| Location | Dimensions | Area (SY) |
|--------------------------------------|----------------------------|--------------|
| Location A - Adamson Road | | |
| West Project Limit | 21.0' x 20.0' | 47 |
| Coyne Station Road | (26.0'+24.0')/2 x 20.0' | 56 |
| Driveways | 1 ea x 30' wide x 3' deep | 10 |
| Location B - Columbine Street | | |
| North Avenue | (28.5'+21.0')/2 x 15.0' | 41 |
| Driveways | 17 ea x 25' wide x 3' deep | 142 |
| Total | | 296 |

NOT FOR BID

BDE SPECIAL PROVISIONS
For the April 25 and June 13, 2014 Lettings

The following special provisions indicated by an "x" are applicable to this contract and will be included by the Project Development 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 | |
|-----------|-------|-------------------------|---|---------------|---------------|
| | 80240 | 1 | Above Grade Inlet Protection | July 1, 2009 | Jan. 1, 2012 |
| | 80099 | 2 | Accessible Pedestrian Signals (APS) | April 1, 2003 | Jan. 1, 2014 |
| | 80274 | 3 | Aggregate Subgrade Improvement | April 1, 2012 | Jan. 1, 2013 |
| | 80192 | 4 | Automated Flagger Assistance Device | Jan. 1, 2008 | |
| | 80173 | 5 | Bituminous Materials Cost Adjustments | Nov. 2, 2006 | Aug. 1, 2013 |
| | 80241 | 6 | Bridge Demolition Debris | July 1, 2009 | |
| | 50261 | 7 | Building Removal-Case I (Non-Friable and Friable Asbestos) | Sept. 1, 1990 | April 1, 2010 |
| | 50481 | 8 | Building Removal-Case II (Non-Friable Asbestos) | Sept. 1, 1990 | April 1, 2010 |
| | 50491 | 9 | Building Removal-Case III (Friable Asbestos) | Sept. 1, 1990 | April 1, 2010 |
| | 50531 | 10 | Building Removal-Case IV (No Asbestos) | Sept. 1, 1990 | April 1, 2010 |
| | 80292 | 11 | Coarse Aggregate in Bridge Approach Slabs/Footings | April 1, 2012 | April 1, 2013 |
| | 80310 | 12 | Coated Galvanized Steel Conduit | Jan. 1, 2013 | |
| | 80198 | 13 | Completion Date (via calendar days) | April 1, 2008 | |
| | 80199 | 14 | Completion Date (via calendar days) Plus Working Days | April 1, 2008 | |
| * | 80293 | 15 | Concrete Box Culverts with Skews > 30 Degrees and Design Fills ≤ 5 Feet | April 1, 2012 | April 1, 2014 |
| * | 80294 | 16 | Concrete Box Culverts with Skews ≤ 30 Degrees Regardless of Design Fill and Skews > 30 Degrees with Design Fills > 5 Feet | April 1, 2012 | April 1, 2014 |
| | 80311 | 17 | Concrete End Sections for Pipe Culvert | Jan. 1, 2013 | |
| * | 80334 | 18 | Concrete Gutter, Curb, Median, and Paved Ditch | April 1, 2014 | |
| | 80277 | 19 | Concrete Mix Design – Department Provided | Jan. 1, 2012 | Jan. 1, 2014 |
| | 80261 | 20 | Construction Air Quality – Diesel Retrofits | June 1, 2010 | Jan. 1, 2014 |
| * | 80335 | 21 | Contract Claims | April 1, 2014 | |
| | 80029 | 22 | Disadvantaged Business Enterprise Participation | Sept. 1, 2000 | Aug. 2, 2011 |
| | 80265 | 23 | ✓ Friction Aggregate | Jan. 1, 2011 | |
| | 80229 | 24 | Fuel Cost Adjustment | April 1, 2009 | July 1, 2009 |
| | 80329 | 25 | Glare Screen | Jan. 1, 2014 | |
| | 80303 | 26 | Granular Materials | Nov. 1, 2012 | |
| | 80304 | 27 | Grooving for Recessed Pavement Markings | Nov. 1, 2012 | Jan. 1, 2013 |
| | 80246 | 28 | ✓ Hot-Mix Asphalt – Density Testing of Longitudinal Joints | Jan. 1, 2010 | April 1, 2012 |
| | 80322 | 29 | ✓ Hot-Mix Asphalt – Mixture Design Composition and Volumetric Requirements | Nov. 1, 2013 | |
| | 80323 | 30 | ✓ Hot-Mix Asphalt – Mixture Design Verification and Production | Nov. 1, 2013 | |
| | 80315 | 31 | Inspection Logs of Culverts | Jan. 1, 2013 | Nov. 1, 2013 |
| * | 80336 | 32 | Longitudinal Joint and Crack Patching | April 1, 2014 | |
| * | 80324 | 33 | LRFD Pipe Culvert Burial Tables | Nov. 1, 2013 | April 1, 2014 |
| | 80325 | 34 | LRFD Storm Sewer Burial Tables | Nov. 1, 2013 | |
| | 80045 | 35 | Material Transfer Device | June 15, 1999 | Jan. 1, 2009 |
| | 80165 | 36 | Moisture Cured Urethane Paint System | Nov. 1, 2006 | Jan. 1, 2010 |
| * | 80337 | 37 | Paved Shoulder Removal | April 1, 2014 | |
| | 80330 | 38 | Pavement Marking for Bike Symbol | Jan. 1, 2014 | |
| | 80298 | 39 | Pavement Marking Tape Type IV | April 1, 2012 | |
| | 80254 | 40 | Pavement Patching | Jan. 1, 2010 | |
| | 80331 | 41 | Payrolls and Payroll Records | Jan. 1, 2014 | |
| | 80332 | 42 | Portland Cement Concrete – Curing of Abutments and Piers | Jan. 1, 2014 | |
| | 80326 | 43 | Portland Cement Concrete Equipment | Nov. 1, 2013 | |
| * | 80338 | 44 | Portland Cement Concrete Partial Depth Hot-Mix Asphalt Patching | April 1, 2014 | |
| | 80300 | 45 | Preformed Plastic Pavement Marking Type D - Inlaid | April 1, 2012 | |

| File Name | # | Special Provision Title | Effective | Revised |
|-----------|----|---|---------------|---------------|
| 80328 | 46 | Progress Payments | Nov. 2, 2013 | |
| 80281 | 47 | Quality Control/Quality Assurance of Concrete Mixtures | Jan. 1, 2012 | Jan. 1, 2014 |
| 34261 | 48 | Railroad Protective Liability Insurance | Dec. 1, 1986 | Jan. 1, 2006 |
| 80157 | 49 | Railroad Protective Liability Insurance (5 and 10) | Jan. 1, 2006 | |
| * 80306 | 50 | Reclaimed Asphalt Pavement (RAP) and Reclaimed Asphalt Shingles (RAS) | Nov. 1, 2012 | April 1, 2014 |
| 80327 | 51 | Reinforcement Bars | Nov. 1, 2013 | |
| 80283 | 52 | ✓ Removal and Disposal of Regulated Substances | Jan. 1, 2012 | Nov. 2, 2012 |
| 80319 | 53 | ✓ Removal and Disposal of Surplus Materials | Nov. 2, 2012 | |
| 80307 | 54 | Seeding | Nov. 1, 2012 | |
| * 80339 | 55 | Stabilized Subbase | April 1, 2014 | |
| 80127 | 56 | Steel Cost Adjustment | April 2, 2004 | April 1, 2009 |
| 80317 | 57 | Surface Testing of Hot-Mix Asphalt Overlays | Jan. 1, 2013 | |
| 80301 | 58 | Tracking the Use of Pesticides | Aug. 1, 2012 | |
| 80333 | 59 | Traffic Control Setup and Removal Freeway/Expressway | Jan. 1, 2014 | |
| 20338 | 60 | Training Special Provisions | Oct. 15, 1975 | |
| * 80318 | 61 | Traversable Pipe Grate | Jan. 1, 2013 | April 1, 2014 |
| 80288 | 62 | Warm Mix Asphalt | Jan. 1, 2012 | Nov. 1, 2013 |
| 80302 | 63 | Weekly DBE Trucking Reports | June 2, 2012 | |
| 80289 | 64 | Wet Reflective Thermoplastic Pavement Marking | Jan. 1, 2012 | |
| 80071 | 65 | Working Days | Jan. 1, 2002 | |

The following special provisions are in the 2014 Supplemental Specifications and Recurring Special Provisions:

| File Name | Special Provision Title | New Location | Effective | Revised |
|-----------|---|---|---------------|---------------|
| 80309 | Anchor Bolts | Articles 1006.09, 1070.01, and 1070.03 | Jan. 1, 2013 | |
| 80276 | Bridge Relief Joint Sealer | Article 503.19 and Sections 588 and 589 | Jan. 1, 2012 | Aug. 1, 2012 |
| 80312 | Drain Pipe, Tile, Drainage Mat, and Wall Drain | Article 101.01, 1040.03, and 1040.04 | Jan. 1, 2013 | |
| 80313 | Fabric Bearing Pads | Article 1082.01 | Jan. 1, 2013 | |
| 80169 | High Tension Cable Median Barrier | Section 644 and Article 1106.02 | Jan. 1, 2007 | Jan. 1, 2013 |
| 80320 | Liquidated Damages | Article 108.09 | April 1, 2013 | |
| 80297 | Modified Urethane Pavement Marking | Section 780, Articles 1095.09 and 1105.04 | April 1, 2012 | |
| 80253 | Movable Traffic Barrier | Section 707 and Article 1106.02 | Jan. 1, 2010 | Jan. 1, 2013 |
| 80231 | Pavement Marking Removal | Recurring CS #33 | April 1, 2009 | |
| 80321 | Pavement Removal | Article 440.07 | April 1, 2013 | |
| 80022 | Payments to Subcontractors | Article 109.11 | June 1, 2000 | Jan. 1, 2006 |
| 80316 | Placing and Consolidating Concrete | Articles 503.06, 503.07, and 516.12 | Jan. 1, 2013 | |
| 80278 | Planting Woody Plants | Section 253 and Article 1081.01 | Jan. 1, 2012 | Aug. 1, 2012 |
| 80305 | Polyurea Pavement Markings | Article 780.14 | Nov. 1, 2012 | Jan. 1, 2013 |
| 80279 | Portland Cement Concrete | Sections 312, 503, 1003, 1004, 1019, and 1020 | Jan. 1, 2012 | Nov. 1, 2013 |
| 80218 | Preventive Maintenance – Bituminous Surface Treatment | Recurring CS #34 | Jan. 1, 2009 | April 1, 2012 |
| 80219 | Preventive Maintenance – Cape Seal | Recurring CS #35 | Jan. 1, 2009 | April 1, 2012 |
| 80220 | Preventive Maintenance – Micro-Surfacing | Recurring CS #36 | Jan. 1, 2009 | April 1, 2012 |
| 80221 | Preventive Maintenance – Slurry Seal | Recurring CS #37 | Jan. 1, 2009 | April 1, 2012 |

| <u>File Name</u> | <u>Special Provision Title</u> | <u>New Location</u> | <u>Effective</u> | <u>Revised</u> |
|------------------|---|--|------------------|----------------|
| 80224 | Restoring Bridge Approach Pavements Using High-Density Foam | Recurring CS #39 | Jan. 1, 2009 | Jan. 1, 2012 |
| 80255 | Stone Matrix Asphalt | Sections 406, 1003, 1004, 1030, and 1011 | Jan. 1, 2010 | Aug. 1, 2013 |
| 80143 | Subcontractor Mobilization Payments | Article 109.12 | April 2, 2005 | April 1, 2011 |
| 80308 | Synthetic Fibers in Concrete Gutter, Curb, Median and Paved Ditch | Articles 606.02 and 606.11 | Nov. 1, 2012 | |
| 80286 | Temporary Erosion and Sediment Control | Articles 280.04 and 280.08 | Jan. 1, 2012 | |
| 80225 | Temporary Raised Pavement Marker | Recurring CS #38 | Jan. 1, 2009 | |
| 80256 | Temporary Water Filled Barrier | Section 708 and Article 1106.02 | Jan. 1, 2010 | Jan. 1, 2013 |
| 80273 | Traffic Control Deficiency Deduction | Article 105.03 | Aug. 1, 2011 | |
| 80270 | Utility Coordination and Conflicts | Articles 105.07, 107.19, 107.31, 107.37, 107.38, 107.39 and 107.40 | April 1, 2011 | Jan. 1, 2012 |

The following special provisions require additional information from the designer. The additional information needs to be included in a separate document attached to this check sheet. The Project Development and Implementation section will then include the information in the applicable special provision. The Special Provisions are:

- 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
- Flood Protective Liability Insurance
- Training Special Provisions
- Working Days

NOT FOR BID

FRICITION AGGREGATE (BDE)

Effective: January 1, 2011

Revise Article 1004.01(a)(4) of the Standard Specifications to read:

“(4) Crushed Stone. Crushed stone shall be the angular fragments resulting from crushing undisturbed, consolidated deposits of rock by mechanical means. Crushed stone shall be divided into the following, when specified.

- a. Carbonate Crushed Stone. Carbonate crushed stone shall be either dolomite or limestone. Dolomite shall contain 11.0 percent or more magnesium oxide (MgO). Limestone shall contain less than 11.0 percent magnesium oxide (MgO).
- b. Crystalline Crushed Stone. Crystalline crushed stone shall be either metamorphic or igneous stone, including but is not limited to, quartzite, granite, rhyolite and diabase.”

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> Gravel Crushed Gravel Carbonate Crushed Stone Crystalline Crushed Stone Crushed Sandstone Crushed Slag (ACBF) Crushed Steel Slag Crushed Concrete |
| HMA All Other | Stabilized Subbase or Shoulders | <u>Allowed Alone or in Combination:</u> Gravel Crushed Gravel Carbonate Crushed Stone Crystalline Crushed Stone Crushed Sandstone Crushed Slag (ACBF) Crushed Steel Slag ^{1/} Crushed Concrete |

| Use | Mixture | Aggregates Allowed | | | | | | | | |
|------------------------------|--|---|-----------------|----------------|---------------|----------|---------------|---|---------------|---|
| HMA High ESAL Low ESAL | Binder IL-25.0, IL-19.0, or IL-19.0L SMA Binder | <u>Allowed Alone or in Combination:</u> 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-12.5, IL-9.5, or IL-9.5L SMA Ndesign 50 Surface | <u>Allowed Alone or in Combination:</u> Crushed Gravel Carbonate Crushed Stone ^{2/} Crystalline Crushed Stone Crushed Sandstone Crushed Slag (ACBF) Crushed Steel Slag ^{4/} Crushed Concrete ^{3/} | | | | | | | | |
| HMA High ESAL | D Surface and Leveling Binder IL-12.5 or IL-9.5 SMA Ndesign 5 Surface | <u>Allowed Alone or in Combination:</u> Crushed Gravel Carbonate Crushed Stone (other than Limestone) ^{2/} Crystalline Crushed Stone Crushed Sandstone Crushed Slag (ACBF) ^{5/} Crushed Steel Slag ^{4/ 5/} Crushed Concrete ^{3/} <u>Other Combinations Allowed:</u> <table border="1" data-bbox="699 1304 1263 1707"> <thead> <tr> <th data-bbox="699 1304 997 1402"><i>Up to...</i></th> <th data-bbox="997 1304 1263 1402"><i>With...</i></th> </tr> </thead> <tbody> <tr> <td data-bbox="699 1402 997 1451">25% Limestone</td> <td data-bbox="997 1402 1263 1451">Dolomite</td> </tr> <tr> <td data-bbox="699 1451 997 1566">50% Limestone</td> <td data-bbox="997 1451 1263 1566">Any Mixture D aggregate other than Dolomite</td> </tr> <tr> <td data-bbox="699 1566 997 1707">75% Limestone</td> <td data-bbox="997 1566 1263 1707">Crushed Slag (ACBF)^{5/} or Crushed Sandstone</td> </tr> </tbody> </table> | <i>Up to...</i> | <i>With...</i> | 25% Limestone | Dolomite | 50% Limestone | Any Mixture D aggregate other than Dolomite | 75% Limestone | Crushed Slag (ACBF) ^{5/} or Crushed Sandstone |
| <i>Up to...</i> | <i>With...</i> | | | | | | | | | |
| 25% Limestone | Dolomite | | | | | | | | | |
| 50% Limestone | Any Mixture D aggregate other than Dolomite | | | | | | | | | |
| 75% Limestone | Crushed Slag (ACBF) ^{5/} or Crushed Sandstone | | | | | | | | | |

NOT FOR BID

| Use | Mixture | Aggregates Allowed | |
|------------------|---|---|--|
| HMA High ESAL | E Surface IL-12.5 or IL-9.5 SMA Ndesign 80 Surface | <u>Allowed Alone or in Combination:</u> Crushed Gravel Crystalline Crushed Stone Crushed Sandstone Crushed Slag (ACBF) ^{5/} Crushed Steel Slag ^{5/} Crushed Concrete ^{3/} 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) ^{5/} , Crushed Steel Slag ^{5/} , or Crystalline Crushed Stone |
| | | 75% Crushed Gravel or Crushed Concrete ^{3/} | Crushed Sandstone, Crystalline Crushed Stone, Crushed Slag (ACBF) ^{5/} , or Crushed Steel Slag ^{5/} |
| HMA High ESAL | E Surface IL-12.5 or IL-9.5 SMA Ndesign 80 Surface | <u>Allowed Alone or in Combination:</u> Crystalline Crushed Stone Crushed Sandstone Crushed Slag (ACBF) ^{5/} Crushed Steel Slag ^{5/} No Limestone. <u>Other Combinations Allowed:</u> <i>Up to...</i> <i>With...</i> | |

NOT FOR BID

| Use | Mixture | Aggregates Allowed | |
|-----|---------|--|--|
| | | 50% Crushed Gravel, Crushed Concrete ^{3/} , or Dolomite ^{2/} | Crushed Sandstone, Crushed Slag (ACBF) ^{5/} , Crushed Steel Slag ^{5/} , or Crystalline Crushed Stone |

- 1/ Crushed steel slag allowed in shoulder surface only.
- 2/ Carbonate crushed stone 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 either slag is used, the blend percentages listed shall be by volume."

80265

NOT FOR BID

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

Effective: January 1, 2010

Revised: April 1, 2012

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 ten feet apart longitudinally along the unconfined pavement edge and centered at the random density test location."

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% | 91.0% |
| IL-9.5, IL-12.5 | Ndesign ≥ 90 | 92.0 – 96.0% | 90.0% |
| IL-9.5, IL-9.5L, IL-12.5 | Ndesign < 90 | 92.5 – 97.4% | 90.0% |
| IL-19.0, IL-25.0 | Ndesign ≥ 90 | 93.0 – 96.0% | 90.0% |
| IL-19.0, IL-19.0L, IL-25.0 | Ndesign < 90 | 93.0 – 97.4% | 90.0% |

| | | | |
|-----------|-------------------|--------------|--------|
| SMA | Ndesign = 50 & 80 | 93.5 – 97.4% | 91.0% |
| All Other | Ndesign = 30 | 93.0 - 97.4% | 90.0%" |

80246

NOT FOR BID

HOT-MIX ASPHALT – MIXTURE DESIGN COMPOSITION AND VOLUMETRIC REQUIREMENTS (BDE)

Effective: November 1, 2013

Revise Article 406.14(b) of the Standard Specifications to read.

“(b) If the HMA placed during the initial test strip (1) is determined to be unacceptable to remain in place by the Engineer, and (2) was not produced within 2.0 to 6.0 percent air voids or within the individual control limits of the JMF, the mixture and test strip will not be paid for and the mixture shall be removed at the Contractor’s expense. An additional test strip and mixture will be paid for in full, if produced within 2.0 to 6.0 percent air voids and within the individual control limits of the JMF.”

Revise Article 406.14(c) of the Standard Specifications to read.

“(c) If the HMA placed during the initial test strip (1) is determined to be unacceptable to remain in place by the Engineer, and (2) was produced within 2.0 to 6.0 percent air voids and within the individual control limits of the JMF, the mixture shall be removed. Removal will be paid in accordance with Article 1030.04. This initial mixture and test strip will be paid for at the contract unit prices. The additional mixture will be paid for at the contract unit price, and any additional test strips will be paid for at one half the unit price of each test strip.”

Revise Article 1030.04(a)(1) of the Standard 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 | L-25.0 mm | | IL-19.0 mm | | IL-12.5 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) | | | | | | | | | | |
| 3/4 in. (19 mm) | 100 | | 100 | | | | | | | |
| 1/2 in. (12.5 mm) | 45 | 75 | 50 | 85 | 90 | 100 | | 100 | | 100 |
| 3/8 in. (9.5 mm) | | | | | | 89 | 90 | 100 | | 100 |
| #4 (4.75 mm) | 24 | 42 ^{2/} | 24 | 50 ^{2/} | 28 | 65 | 32 | 69 | 90 | 100 |
| #8 (2.36 mm) | 16 | 31 | 20 | 36 | 28 | 48 ^{3/} | 32 | 52 ^{3/} | 70 | 90 |
| #16 (1.18 mm) | 10 | 22 | 10 | 25 | 10 | 32 | 10 | 32 | 50 | 65 |
| #50 (300 μm) | 4 | 12 | 4 | 12 | 4 | 15 | 4 | 15 | 15 | 30 |
| #100 (150 μm) | 3 | 9 | 3 | 9 | 3 | 10 | 3 | 10 | 10 | 18 |
| #200 (75 μm) | 3 | 6 | 3 | 6 | 4 | 6 | 4 | 6 | 7 | 9 |

| | | | | | | | | | | |
|---------------------------------|--|-----|--|-----|--|-----|--|-----|--|--------------------|
| Ratio Dust/Asphalt Binder | | 1.0 | | 1.0 | | 1.0 | | 1.0 | | 1.0 ^{1/4} |
|---------------------------------|--|-----|--|-----|--|-----|--|-----|--|--------------------|

- 1/ Based on percent of total aggregate weight.
- 2/ The mixture composition shall not exceed 40 percent passing the #4 (4.75 mm) sieve for binder courses with Ndesign ≥ 90.
- 3/ The mixture composition shall not exceed 44 percent passing the #8 (2.36 mm) sieve for surface courses with Ndesign ≥ 90.
- 4/ Additional minus No. 200 (0.075 mm) material required by the mix design shall be mineral filler, unless otherwise approved by the Engineer.

Delete Article 1030.04(a)(4) of the Standard Specifications.

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 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-25.0 | IL-19.0 | IL-12.5 | IL-9.5 | IL-4.75 ^{1/} | |
| 50 | | | | | 18.5 | 65 – 78 ^{2/} |
| 70 | 12.0 | 13.0 | 14.0 | 15.0 | | 65 - 75 |
| 90 | | | | | | |
| 100 | | | | | | |

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

2/ VFA for IL-4.75 shall be 76-83 percent”

Delete Article 1030.04(b)(4) of the Standard Specifications.

Revise the Control Limits Table in Article 1030.05(d)(4) of the Standard Specifications to read.

| |
|-----------------|
| “CONTROL LIMITS |
|-----------------|

| Parameter | High ESAL Low ESAL | High ESAL Low ESAL | All Other | IL-4.75 | IL-4.75 |
|---------------------------------------|-----------------------|-----------------------|--------------------|----------------------|----------------------|
| | Individual Test | Moving Avg. of 4 | Individual Test | Individual Test | Moving Avg. of 4 |
| % Passing: ^{1/} | | | | | |
| 1/2 in. (12.5 mm) | ± 6 % | ± 4 % | ± 15 % | | |
| No. 4 (4.75 mm) | ± 5 % | ± 4 % | ± 10 % | | |
| No. 8 (2.36 mm) | ± 5 % | ± 3 % | | | |
| No. 16 (1.18 mm) | | | | ± 1 % | ± 3 % |
| No. 30 (600 μm) | ± 4 % | ± 2.5 % | | | |
| Total Dust Content No. 200 (75 μm) | ± 1.5 % | ± 1.0 % | ± 2.5 % | ± 1.0 % | ± 1.0 % |
| Asphalt Binder Content | ± 0.3 % | ± 0.2 % | ± 0.5 % | ± 0.3 % | ± 0.2 % |
| Voids | ± 1.2 % | ± 1.0 % | ± 1.2 % | ± 1.2 % | ± 1.0 % |
| VMA | -0.7 % ^{2/} | -0.5 % ^{2/} | | -0.7 % ^{2/} | -0.5 % ^{2/} |

1/ Based on washed ignition oven

2/ Allowable limit below minimum design VMA requirement"

80322

NOT FOR BID

HOT-MIX ASPHALT – MIXTURE DESIGN VERIFICATION AND PRODUCTION (BDE)

Effective: November 1, 2013

Description. This special provision provides the requirements for Hamburg Wheel and tensile strength testing for High ESAL, IL-4.75, and Stone Matrix Asphalt (SMA) hot-mix asphalt (HMA) mixes during mix design verification and production. This special provision also provides the plant requirements for hydrated lime addition systems used in the production of High ESAL, IL-4.75, and SMA mixes.

Mix Design Testing. Add the following to Article 1030.04 of the Standard Specifications:

"(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 (Illinois Modified AASHTO T 324) and the Tensile Strength Test (Illinois Modified 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 necessary changes to the mix and provide passing Hamburg Wheel and tensile strength test results from a private lab. The Department will verify the passing results.

All new and renewal mix designs shall meet the following requirements for verification testing.

- (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/}

| PG Grade | Number of Passes |
|----------------------|------------------|
| PG 58-xx (or lower) | 5,000 |
| PG 64-xx | 7,500 |
| PG 70-xx | 15,000 |
| PG 76-xx (or higher) | 20,000 |

^{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.

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

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

"(a) High ESAL, IL-4.75 and SMA Mixtures. For each contract, a 300 ton (275 metric tons) test strip will be required at the beginning of HMA production for each mixture with a quantity of 3000 tons (2750 metric tons) or more according to the Manual of Test Procedures for Materials "Hot Mix Asphalt Test Strip Procedures".

Before start-up, target values shall be determined by applying gradation correction factors to the JMF when applicable. These correction factors shall be determined from previous experience. The target values, when approved by the Engineer shall be used to control HMA production. Plant settings and control charts shall be set according to target values.

Before constructing the test strip, target values shall be determined by applying gradation correction factors to the JMF when applicable. After any JMF adjustment, the JMF shall become the Adjusted Job Mix Formula (AJMF). Upon completion of the first acceptable test strip, the JMF shall become the AJMF regardless of whether or not the JMF has been adjusted. If an adjustment plant change is made, the Engineer may require a new test strip to be constructed. If the HMA placed during the initial test strip is determined to be unacceptable to remain in place by the Engineer, it shall be removed and replaced.

The limitations between the JMF and AJMF are as follows.

| Parameter | Adjustment |
|------------------------|------------|
| 1/2 in. (12.5 mm) | ± 5.0 % |
| No. 4 (4.75 mm) | ± 4.0 % |
| No. 8 (2.36 mm) | ± 3.0 % |
| No. 30 (600 µm) | * |
| No. 200 (75 µm) | * |
| Asphalt Binder Content | ± 0.3 % |

* In no case shall the target for the amount passing be greater than the JMF.

Any adjustments outside the above limitations will require a new mix design.

Mixture sampled to represent the test strip shall include additional material sufficient for the Department to conduct Hamburg Wheel testing according to Illinois Modified AASHTO T324 (approximately 60 lb (27 kg) total).

The Contractor shall immediately cease production upon notification by the Engineer of failing Hamburg Wheel test. All prior produced material may be paved out provided all other mixture criteria is being met. No additional mixture shall be produced until the Engineer receives passing Hamburg Wheel tests.

The Department may conduct additional Hamburg Wheel tests on production material as determined by the Engineer."

Revise the title of Article 1030.06(b) of the Standard Specifications to read:

"(b) Low ESAL and All Other Mixtures."

System for Hydrated Lime Addition. Revise the fourth sentence of the third paragraph of Article 1030.04(c) of the Standard Specifications to read:

"The method of application shall be according to Article 1102.01(a)(10)."

Replace the first three sentences of the second paragraph of Article 1102.01(a)(10) of the Standard Specifications to read:

"When hydrated lime is used as the anti-strip additive, a separate bin or tank and feeder system shall be provided to store and accurately proportion the lime onto the aggregate either as a slurry, as dry lime applied to damp aggregates, or as dry lime injected onto the hot aggregates prior to adding the liquid asphalt cement. If the hydrated lime is added either as a slurry or as dry lime on damp aggregates, the lime and aggregates shall be mixed by a power driven pugmill to provide a uniform coating of the lime prior to entering the dryer. If dry hydrated lime is added to the hot dry aggregates in a dryer-drum plant, the lime shall be added in such a manner that the lime will not become entrained into the air stream of the dryer-drum and that thorough dry mixing shall occur prior to the injection point of the liquid asphalt. When a batch plant is used, the hydrated lime shall be added to the mixture in the weigh hopper or as approved by the Engineer."

Basis of Payment. Replace the seventh paragraph of Article 406.14 of the Standard Specifications with the following:

"For mixes designed and verified under the Hamburg Wheel criteria, the cost of furnishing and introducing anti-stripping additives in the HMA will not be paid for separately, but shall be considered as included in the contract unit price of the HMA item involved.

If an anti-stripping additive is required for any other HMA mix, the cost of the additive will be paid for according to Article 109.04. The cost incurred in introducing the additive into the HMA will not be paid for separately, but shall be considered as included in the contract unit price of the HMA item involved.

No additional compensation will be awarded to the Contractor because of reduced production rates associated with the addition of the anti-stripping additive."

REMOVAL AND DISPOSAL OF REGULATED SUBSTANCES (BDE)

Effective: January 1, 2012

Revised: November 2, 2012

Revise Article 669.01 of the Standard Specifications to read:

“669.01 Description. This work shall consist of the transportation and proper disposal of contaminated soil and water. 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.”

Revise Article 669.08 of the Standard Specifications to read:

“669.08 Contaminated Soil and/or Groundwater Monitoring. The Contractor shall hire a qualified environmental firm to monitor the area containing the regulated substances. The affected area shall be monitored with a photoionization detector (PID) utilizing a lamp of 10.6eV or greater or a flame ionization detector (FID). 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. No excavated soils can be taken to a clean construction and demolition debris (CCDD) facility or an uncontaminated soil fill operation with detectable PID or FID meter readings that are above background. The PID or FID meter shall be calibrated on-site and background level readings taken and recorded daily. All testing shall be done by a qualified engineer/technician. Such testing and monitoring shall be included in the work. The Contractor shall identify the exact limits of removal of non-special waste, special waste, or hazardous waste. All limits shall be approved by the Engineer prior to excavation. The Contractor shall take all necessary precautions.

Based upon the land use history of the subject property and/or PID or FID readings indicating contamination, a soil or groundwater sample shall be taken from the same location and submitted to an approved laboratory. Soil or groundwater samples shall be analyzed for the contaminants of concern, including pH, based on the property's land use history or the parameters listed in the maximum allowable concentration (MAC) for chemical constituents in uncontaminated soil established pursuant to Subpart F of 35 Illinois Administrative Code 1100.605. The analytical results shall serve to document the level of soil contamination. Soil and groundwater samples may be required at the discretion of the Engineer to verify the level of soil and groundwater 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, location and elevation, and any other 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 and "Methods for the Determination of Organic Compounds in Drinking Water", EPA, EMSL, EPA-600/4-88/039. 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."

Replace the first two paragraphs of Article 669.09 of the Standard Specifications with the following:

"669.09 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. Such soil excavated for storm sewers can be placed back into the excavated trench as backfill, when suitable, unless trench backfill is specified. 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 CCDD facility or an uncontaminated soil fill operation 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 uncontaminated soil fill operation 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 uncontaminated soil fill operation 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 669.09(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 but the pH of the soil is less than 6.25 or greater than 9.0, the excavated soil can be utilized within the construction limits or managed and disposed of off-site as "uncontaminated soil" according to Article 202.03. However the excavated soil cannot be taken to a CCDD facility or an uncontaminated soil fill operation.
- (c) 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.

All groundwater encountered within lateral 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."

Revise Article 669.14 of the Standard Specifications to read:

"669.14 Final Environmental Construction Report. At the end of the project, the Contractor will prepare and submit three copies of the Environmental Construction Report on the activities conducted during the life of the project, one copy shall be submitted to the Resident Engineer, one copy shall be submitted to the District's Environmental Studies Unit, and one copy shall be submitted with an electronic copy in Adode.pdf format to the Geologic

and Waste Assessment Unit, Bureau of Design and Environment, IDOT, 2300 South Dirksen Parkway, Springfield, Illinois 62764. The technical report shall include all pertinent information regarding the project including, but not limited to:

- (a) Measures taken to identify, monitor, handle, and dispose of soil or groundwater containing regulated substances, to prevent further migration of regulated substances, and to protect workers,
- (b) Cost of identifying, monitoring, handling, and disposing of soil or groundwater containing regulated substances, the cost of preventing further migration of regulated substances, and the cost for worker protection from the regulated substances. All cost should be in the format of the contract pay items listed in the contract plans identified by the preliminary environmental site investigation (PESA) site number,
- (c) Plan sheets showing the areas containing the regulated substances,
- (d) Field sampling and testing results used to identify the nature and extent of the regulated substances,
- (e) Waste manifests (identified by the preliminary environmental site investigation (PESA) site number) for special or hazardous waste disposal, and
- (f) Landfill tickets (identified by the preliminary environmental site investigation (PESA) site number) for non-special waste disposal."

Revise the second paragraph of Article 669.16 of the Standard Specifications to read:

"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."

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REMOVAL AND DISPOSAL OF SURPLUS MATERIALS (BDE)

Effective: November 2, 2012

Revise the first four paragraphs of Article 202.03 of the Standard Specifications to read:

“202.03 Removal and Disposal of Surplus, Unstable, Unsuitable, and Organic Materials. Suitable excavated materials shall not be wasted without permission of the Engineer. The Contractor shall dispose of all surplus, unstable, unsuitable, and organic materials, in such a manner that public or private property will not be damaged or endangered.

Suitable earth, stones and boulders naturally occurring within the right-of-way may be placed in fills or embankments in lifts and compacted according to Section 205. Broken concrete without protruding metal bars, bricks, rock, stone, reclaimed asphalt pavement with no expansive aggregate, or uncontaminated dirt and sand generated from construction or demolition activities may be used in embankment or in fill. If used in fills or embankments, these materials shall be placed and compacted to the satisfaction of the Engineer; shall be buried under a minimum of 2 ft (600 mm) of earth cover (except when the materials include only uncontaminated dirt); and shall not create an unsightly appearance or detract from the natural topographic features of an area. Broken concrete without protruding metal bars, bricks, rock, or stone may be used as riprap as approved by the Engineer. If the materials are used for fill in locations within the right-of-way but outside project construction limits, the Contractor must specify to the Engineer, in writing, how the landscape restoration of the fill areas will be accomplished. Placement of fill in wetland areas shall not commence until the Contractor's landscape restoration plan is approved by the Engineer.

Aside from the materials listed above, all other construction and demolition debris or waste shall be disposed of in a licensed landfill, recycled, reused, or otherwise disposed of as allowed by State or Federal laws and regulations. When the Contractor chooses to dispose of uncontaminated soil at a clean construction and demolition debris (CCDD) facility or at an uncontaminated soil operation, it shall be the Contractor's responsibility to have the pH of the material tested to ensure the value is between 6.25 and 9.0, inclusive. A copy of the pH test results shall be provided to the Engineer.

A permit shall be obtained from IEPA and made available to the Engineer prior to open burning of organic materials (i.e., plant refuse resulting from pruning or removal of trees or shrubs) or other construction or demolition debris. Organic materials originating within the right-of-way limits may be chipped or shredded and placed as mulch around landscape plantings within the right-of-way when approved by the Engineer. Chipped or shredded material to be placed as mulch shall not exceed a depth of 6 in. (150 mm).”

CHECK SHEET
FOR
RECURRING SPECIAL PROVISIONS

Adopted January 1, 2014

The following RECURRING SPECIAL PROVISIONS indicated by an "X" are applicable to this contract and are included by reference:

| <u>CHECK SHEET #</u> | <u>RECURRING SPECIAL PROVISIONS</u> | <u>PAGE NO.</u> |
|----------------------|---|-----------------|
| 1 | <input type="checkbox"/> Additional State Requirements for Federal-Aid Construction Contracts (Eff. 2-1-69)(Rev. 1-1-10) | 149 |
| 2 | <input type="checkbox"/> Subletting of Contracts (Federal-Aid Contracts) (Eff. 1-1-88) (Rev. 5-1-93) | 152 |
| 3 | <input type="checkbox"/> EEO (Eff. 7-21-78) (Rev. 11-18-80) | 153 |
| 4 | <input type="checkbox"/> Specific Equal Employment Opportunity Responsibilities Non Federal-Aid Contracts (Eff. 3-20-69) (Rev. 1-1-94) | 163 |
| 5 | <input type="checkbox"/> Required Provisions - State Contracts (Eff. 4-1-65) (Rev. 1-1-13) | 168 |
| 6 | <input type="checkbox"/> Asbestos Bearing Pad Removal (Eff. 11-1-03) | 173 |
| 7 | <input type="checkbox"/> Asbestos Waterproofing Membrane and Asbestos Hot-Mix Asphalt Surface Removal (Eff. 6-1-89) (Rev. 1-1-09) | 174 |
| 8 | <input type="checkbox"/> Haul Road Stream Crossings, Other Temporary Stream Crossings, and Stream Work Pads (Eff. 1-2-92) (Rev. 1-1-98) | 175 |
| 9 | <input type="checkbox"/> Construction Layout Stakes Except for Bridges (Eff. 1-1-99) (Rev. 1-1-07) | 176 |
| 10 | <input type="checkbox"/> Construction Layout Stakes (Eff. 5-1-93) (Rev. 1-1-07) | 179 |
| 11 | <input type="checkbox"/> Use of Geotextile Fabric for Railroad Crossing (Eff. 1-1-95) (Rev. 1-1-07) | 182 |
| 12 | <input type="checkbox"/> Subsealing of Concrete Pavements (Eff. 11-1-84) (Rev. 1-1-07) | 184 |
| 13 | <input type="checkbox"/> Hot-Mix Asphalt Surface Correction (Eff. 11-1-87) (Rev. 1-1-09) | 188 |
| 14 | <input type="checkbox"/> Pavement and Shoulder Resurfacing (Eff. 2-1-00) (Rev. 1-1-09) | 190 |
| 15 | <input type="checkbox"/> PCC Partial Depth Hot-Mix Asphalt Patching (Eff. 1-1-98) (Rev. 1-1-07) | 191 |
| 16 | <input type="checkbox"/> Patching with Hot-Mix Asphalt Overlay Removal (Eff. 8-1-95) (Rev. 1-1-07) | 193 |
| 17 | <input type="checkbox"/> Polymer Concrete (Eff. 8-1-95) (Rev. 1-1-06) | 194 |
| 18 | <input type="checkbox"/> PVC Pipeliner (Eff. 4-1-04) (Rev. 1-1-07) | 196 |
| 19 | <input type="checkbox"/> Pipe Underdrains (Eff. 9-9-87) (Rev. 1-1-07) | 197 |
| 20 | <input type="checkbox"/> Guardrail and Barrier Wood Delineation (Eff. 12-15-93) (Rev. 1-1-12) | 198 |
| 21 | <input type="checkbox"/> Bicycle Racks (Eff. 4-1-94) (Rev. 1-1-12) | 202 |
| 22 | <input type="checkbox"/> Temporary Modular Glare Screen System (Eff. 1-1-00) (Rev. 1-1-07) | 204 |
| 23 | <input type="checkbox"/> Temporary Portable Bridge Traffic Signals (Eff. 8-1-03) (Rev. 1-1-07) | 206 |
| 24 | <input type="checkbox"/> Work Zone Public Information Signs (Eff. 9-1-02) (Rev. 1-1-07) | 208 |
| 25 | <input type="checkbox"/> Night Time Inspection of Roadway Lighting (Eff. 5-1-96) | 209 |
| 26 | <input type="checkbox"/> English Substitution of Metric Bolts (Eff. 7-1-96) | 210 |
| 27 | <input type="checkbox"/> English Substitution of Metric Reinforcement Bars (Eff. 4-1-96) (Rev. 1-1-03) | 211 |
| 28 | <input type="checkbox"/> Calcium Chloride Accelerator for Portland Cement Concrete (Eff. 1-1-01) (Rev. 1-1-13) | 212 |
| 29 | <input type="checkbox"/> Portland Cement Concrete Inlay or Overlay for Pavements (Eff. 11-1-08) (Rev. 1-1-13) | 213 |
| 30 | <input type="checkbox"/> Quality Control of Concrete Mixtures at the Plant (Eff. 8-1-00) (Rev. 1-1-14) | 216 |
| 31 | <input type="checkbox"/> Quality Control/Quality Assurance of Concrete Mixtures (Eff. 4-1-92) (Rev. 1-1-14) | 224 |
| 32 | <input type="checkbox"/> Digital Terrain Modeling for Earthwork Calculations (Eff. 4-1-07) | 240 |
| 33 | <input type="checkbox"/> Pavement Marking Removal (Eff. 4-1-09) | 242 |
| 34 | <input type="checkbox"/> Preventive Maintenance – Bituminous Surface Treatment (Eff. 1-1-09) (Rev. 1-1-12) | 243 |
| 35 | <input type="checkbox"/> Preventive Maintenance – Cape Seal (Eff. 1-1-09) (Rev. 1-1-12) | 249 |
| 36 | <input type="checkbox"/> Preventive Maintenance – Micro-Surfacing (Eff. 1-1-09) (Rev. 1-1-12) | 264 |
| 37 | <input type="checkbox"/> Preventive Maintenance – Slurry Seal (Eff. 1-1-09) (Rev. 1-1-12) | 275 |
| 38 | <input type="checkbox"/> Temporary Raised Pavement Markers (Eff. 1-1-09) (Rev. 1-1-14) | 285 |
| 39 | <input type="checkbox"/> Restoring Bridge Approach Pavements Using High-Density Foam (Eff. 1-1-09) (Rev. 1-1-12) | 286 |

CHECK SHEET
FOR
LOCAL ROADS AND STREETS RECURRING SPECIAL PROVISIONS

Adopted January 1, 2014

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

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| LRS 1 | Reserved | 290 |
| LRS 2 | <input type="checkbox"/> Furnished Excavation (Eff. 1-1-99) (Rev. 1-1-07)..... | 291 |
| LRS 3 | <input type="checkbox"/> Work Zone Traffic Control (Eff. 1-1-99) (Rev. 1-1-10)..... | 292 |
| LRS 4 | <input checked="" type="checkbox"/> Flaggers in Work Zones (Eff. 1-1-99) (Rev. 1-1-07)..... | 293 |
| LRS 5 | <input checked="" type="checkbox"/> Contract Claims (Eff. 1-1-02) (Rev. 1-1-07)..... | 294 |
| LRS 6 | <input type="checkbox"/> Bidding Requirements and Conditions for Contract Proposals (Eff. 1-1-02) (Rev. 1-1-13)..... | 295 |
| LRS 7 | <input type="checkbox"/> Bidding Requirements and Conditions for Material Proposals (Eff. 1-1-02) (Rev. 1-1-13)..... | 301 |
| LRS 8 | Reserved | 307 |
| LRS 9 | <input type="checkbox"/> Bituminous Surface Treatments (Eff. 1-1-99) (Rev. 1-1-11)..... | 308 |
| LRS 10 | Reserved | 309 |
| LRS 11 | <input checked="" type="checkbox"/> Employment Practices (Eff. 1-1-99)..... | 310 |
| LRS 12 | <input type="checkbox"/> Wages of Employees on Public Works (Eff. 1-1-99) (Rev. 1-1-14)..... | 312 |
| LRS 13 | <input checked="" type="checkbox"/> Selection of Labor (Eff. 1-1-99)(Rev. 1-1-12)..... | 314 |
| LRS 14 | <input type="checkbox"/> Paving Brick and Concrete Paver Pavements and Sidewalks (Eff. 1-1-04) (Rev. 1-1-09)..... | 315 |
| LRS 15 | <input checked="" type="checkbox"/> Partial Payments (Eff. 1-1-07)..... | 318 |
| LRS 16 | <input type="checkbox"/> Protests on Local Lettings (Eff. 1-1-07) (Rev. 1-1-13)..... | 319 |
| LRS 17 | <input checked="" type="checkbox"/> Substance Abuse Prevention Program (Eff. 1-1-08)(Rev. 1-8-08)..... | 320 |
| LRS 18 | <input type="checkbox"/> Multigrade Cold Mix Asphalt (Eff. 1-1-07) (Rev. 1-1-13)..... | 321 |

NOT FOR BID

State of Illinois
Department of Transportation
Bureau of Local Roads and Streets

SPECIAL PROVISION
FOR
BIDDING REQUIREMENTS AND CONDITIONS FOR CONTRACT PROPOSALS

Effective: January 1, 2001
Revised: January 1, 2014

All references to Sections or Articles in this specification shall be construed to mean specific Section or Article of the Standard Specifications for Road and Bridge Construction adopted by the Department of Transportation.

Replace Article 102.01 of the Standard Specifications with the following:

Prequalification of Bidders. When prequalification is required and the Awarding Authority for contract construction work is the County Board of a County, the Council, the City Council, or the President and Board of Trustees of a city, village, or town, each prospective bidder, in evidence of competence, shall furnish the Awarding Authority, as a prerequisite to the release of proposal forms by the Awarding Authority, a certified or photographic copy of a "Certificate of Eligibility" issued by the Department of Transportation according to the Department's "Prequalification Manual".

The two low bidders must file, within 24 hours after the letting, a sworn affidavit in triplicate, showing all uncompleted contracts awarded to them and all low bids pending award for Federal, State, County, Municipal and private work, using the blank form made available for this affidavit. One copy shall be filed with the Awarding Authority and two copies with IDOT's District office.

Issuance of Proposal Forms. The Awarding Authority reserves the right to refuse to issue a proposal form for bidding purposes for any of the following reasons:

- (a) Lack of competency and adequate machinery, plant, and other equipment, as revealed by the financial statement and experience questionnaires required in the prequalification procedures.
- (b) Uncompleted work which, in the judgment of the Awarding Authority, might hinder or prevent the prompt completion of additional work awarded.
- (c) False information provided on a bidder's "Affidavit of Availability".
- (d) Failure to pay, or satisfactorily settle, all bills due for labor and material on former contracts in force at the time of issuance of proposal forms.
- (e) Failure to comply with any prequalification regulations of the Department.
- (f) Default under previous contracts.
- (g) Unsatisfactory performance record as shown by past work for the Awarding Authority, judged from the standpoint of workmanship and progress.
- (h) When the Contractor is suspended from eligibility to bid at a public letting where the contract is awarded by, or requires approval of, the Department.
- (i) When any agent, servant, or employee of the prospective bidder currently serves as a member, employee, or agent of a governmental body that is financially involved in the proposal work.

- (j) When any agent, servant, or employee of the perspective bidder has participated in the preparation of plans or specifications for the proposed work.

Interpretation of Quantities in the Bid Schedule. 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.

Examination of Plans, Specifications, Special Provisions, and Site of Work. The bidder shall, before submitting a bid, carefully examine the provisions of the contract. The bidder shall inspect in detail the site of the proposed work, investigate and become familiar with all the local conditions affecting the contract and fully acquaint themselves with the detailed requirements of construction. Submission of a bid shall be a conclusive assurance and warranty the bidder has made these examinations and the bidder understands all requirements for the performance of the work. If his/her bid is accepted, the bidder shall be responsible for all errors in the proposal resulting from his/her failure or neglect to comply with these instructions. The Awarding Authority will, in no case, be responsible for any costs, expenses, losses, or change in anticipated profits resulting from such failure or neglect of the bidder to make these examinations.

The bidder shall take no advantage of any error or omission in the proposal and advertised contract. Any prospective bidder, who desires an explanation or interpretation of the plans, specification, or any of the contract documents, shall request such in writing from the Awarding Authority, in sufficient time to allow a written reply by the Awarding Authority that can reach all prospective bidders before the submission of their bids. Any reply given a prospective bidder concerning any of the contract documents, plans, and specifications will be furnished to all prospective bidders in the form determined by the Awarding Authority including, but not limited to, an addendum, if the information is deemed by the Awarding Authority to be necessary in submitting bids or if the Awarding Authority concludes the information would aid competition. Oral explanations, interpretations, or instructions given before the submission of bids unless at a prebid conference will not be binding on the Awarding Authority.

Preparation of the Proposal. Bidders shall submit their proposals on the form furnished by the Awarding Authority. The proposal shall be executed properly, and bids shall be made for all items indicated in the proposal form, except when alternate bids are asked, a bid on more than one alternate for each item is not required, unless otherwise provided. The bidder shall indicate in figures, a unit price for each of the separate items called for in the proposal form; the bidder shall show the products of the respective quantities and unit prices in the column provided for that purpose, and the gross sum shown in the place indicated in the proposal form shall be the summation of said products. All writing shall be with ink or typewriter, except the signature of the bidder which shall be written in ink.

If the proposal is made by an individual, that individual's name and business address shall be shown. If made by a firm or partnership, the name and business address of each member of the firm or partnership shall be shown. If made by a corporation, the proposal shall show the names, titles, and business addresses of the president, corporate secretary and treasurer. The proposal shall be signed by president or someone with authority to execute contracts and attested by the corporate secretary or someone with authority to execute or attest to the execution of contracts.

When prequalification is required, the proposal form shall be submitted by an authorized bidder in the same name and style as shown on the "Contractor's Statement of Experience and Financial Condition" used for prequalification.

Rejection of Proposals. The Awarding Authority reserves the right to reject any proposal for any of the conditions in "Issuance of Proposal Forms" or for any of the following reasons:

- (a) More than one proposal for the same work from an individual, firm, partnership, or corporation under the same name or different names.
- (b) Evidence of collusion among bidders.
- (c) Unbalanced proposals in which the bid prices for some items are, in the judgment of the Awarding Authority, out of proportion to the bid prices for other items.
- (d) If the proposal does not contain a unit price for each pay item listed, except in the case of authorized alternate pay items or lump sum pay items.
- (e) If the proposal form is other than that furnished by the Awarding Authority; or if the form is altered or any part thereof is detached.
- (f) If there are omissions, erasures, alterations, unauthorized additions, conditional or alternate bids, or irregularities of any kind which may tend to make the proposal incomplete, indefinite or ambiguous as to its meaning.
- (g) If the bidder adds any provisions reserving the right to accept or reject an award, or to enter into a contract pursuant to an award.
- (h) If the proposal is not accompanied by the proper proposal guaranty.
- (i) If the proposal is prepared with other than ink or typewriter, or otherwise fails to meet the requirements of the above "Preparation of Proposal" section.

Proposal Guaranty. Each proposal shall be accompanied by a bid bond on the Department form contained in the proposal, executed by a corporate surety company satisfactory to the Awarding Authority, by a bank cashier's check or a properly certified check for not less than five percent of the amount bid, or for the amount specified in the following schedule:

| Amount Bid | Proposal Guaranty |
|-------------------|-------------------|
| Up to \$5,000 | \$150 |
| >\$5,000 | \$300 |
| >\$10,000 | \$1,000 |
| >\$50,000 | \$3,000 |
| >\$100,000 | \$5,000 |
| >\$150,000 | \$7,500 |
| >\$250,000 | \$12,500 |
| >\$500,000 | \$25,000 |
| >\$1,000,000 | \$50,000 |
| >\$1,500,000 | \$75,000 |
| >\$2,000,000 | \$100,000 |
| >\$3,000,000 | \$150,000 |
| >\$5,000,000 | \$250,000 |
| >\$7,500,000 | \$400,000 |
| >\$10,000,000 | \$500,000 |
| >\$15,000,000 | \$600,000 |
| >\$20,000,000 | \$700,000 |
| >\$25,000,000 | \$800,000 |
| >\$30,000,000 | \$900,000 |
| Over \$35,000,000 | \$1,000,000 |

In the event that one proposal guaranty check is intended to cover two or more proposals, the amount must equal to the sum of the proposal guaranties which would be required for each individual proposal.

Bank cashier's checks or properly certified checks accompanying proposals shall be made payable to the County Treasurer, when a County is the Awarding Authority; or the City, Village, or Town Treasurer, when a city, village, or town is the Awarding Authority.

The proposal guaranty checks of all, except the two lowest responsible, will be returned promptly after the proposals have been checked, tabulated, and the relation of the proposals established. Proposal guaranty checks of the two lowest bidders will be returned as soon as the contract and contract bond of the successful bidder have been properly executed and approved. Bid bonds will not be returned.

After a period of three working days has elapsed after the date of opening proposals, the Awarding Authority may permit the two lowest bidders to substitute for the bank cashier's checks or certified checks submitted with their proposals as proposal guaranties, bid bonds on the Department forms executed by corporate surety companies satisfactory to the Awarding Authority.

Delivery of Proposals. If a special envelope is supplied by the Awarding Authority, each proposal should be submitted in that envelope furnished by the Awarding Authority 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.

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

Public Opening of Proposals. Proposals will be opened and read publicly at the time and place specified in the Notice to Bidders. Bidders, their authorized agents, and other interested parties are invited to be present.

Consideration of Proposals. After the proposals are opened and read, they will be compared on the basis of the summation of the products of the quantities shown in the bid schedule by the unit bid prices. In awarding contracts, the Awarding Authority will, in addition to considering the amounts stated in the proposals, take into consideration the responsibility of the various bidders as determined from a study of the data required under "Prequalification of Bidders", and from other investigations which it may elect to make.

The right is reserved to reject any or all proposals, to waive technicalities, or to advertise for new proposals, if in the judgment of the Awarding Authority, the best interests of the Awarding Authority will be promoted thereby.

Award of Contract. The award of contract will be made within 45 calendar days after the opening of proposals to the lowest responsible and qualified bidder whose proposal complies with all the requirements prescribed. The successful bidder will be notified by letter of intent that his/her bid has been accepted, and subject to the following conditions, the bidder will be the Contractor.

An approved contract executed by the Awarding Authority is required before the Awarding Authority is bound. An award may be cancelled any time by the Awarding Authority prior to execution in order to protect the public interest and integrity of the bidding process or for any other reason if, in the judgment of the Awarding Authority, the best interests of the Awarding Authority will be promoted thereby.

If a contract is not awarded within 45 days after the opening of proposals, bidders may file a written request with the Awarding Authority for the withdrawal of their bid, and the Awarding Authority will permit such withdrawal.

Requirement of Contract Bond. If the Awarding Authority requires a Contract Bond, the Contractor or Supplier shall furnish the Awarding Authority a performance and payment bond with good and sufficient sureties in the full amount of the award as the penal sum. The surety shall be acceptable to the Awarding Authority, shall waive notice of any changes and extensions of time, and shall submit its bond on the form furnished by the Awarding Authority.

Execution of Contract. The contract shall be executed by the successful bidder and returned, together with the Contract Bond, within 15 days after the contract has been mailed to the bidder.

If the bidder to whom the award is made is a corporation organized under the laws of a State other than Illinois, the bidder shall furnish the Awarding Authority a copy of the corporation's Certificate of Authority to do business in the State of Illinois with the return of the executed contract and bond. Failure to furnish such evidence of a Certificate of Authority within the time required will be considered as just cause for the annulment of the award and the forfeiture of the proposal guaranty to the Awarding Authority, not as a penalty, but in payment of liquidated damages sustained as a result of such failure.

Failure to Execute Contract. If the contract is not executed by the Awarding Authority within 15 days following receipt from the bidder of the properly executed contracts and bonds, the bidder shall have the right to withdraw his/her bid without penalty.

Failure of the successful bidder to execute the contract and file acceptable bonds within 15 days after the contract has been mailed to the bidder shall be just cause for the cancellation of the award and the forfeiture of the proposal guaranty which shall become the property of the Awarding Authority, not as penalty, but in liquidation of damages sustained. Award may then be made to the next lowest responsible bidder, or the work may be readvertised and constructed under contract, or otherwise, as the Awarding Authority may decide."

State of Illinois
DEPARTMENT OF TRANSPORTATION
Bureau of Local Roads & Streets

SPECIAL PROVISION
FOR
WAGES OF EMPLOYEES ON PUBLIC WORKS

Effective: January 1, 1999
Revised: January 1, 2014

1. **Prevailing Wages.** All wages paid by the Contractor and each subcontractor shall be in compliance with The Prevailing Wage Act (820 ILCS 130), as amended, except where a prevailing wage violates a federal law, order, or ruling, the rate conforming to the federal law, order, or ruling shall govern. The Illinois Department of Labor publishes the prevailing wage rates on its website at www.state.il.us/agency/idol/rates/rates.htm. If the Illinois Department of Labor revises the prevailing wage rates, the revised prevailing wage rates on the Illinois Department of Labor's website shall apply to this contract and the Contractor will not be allowed additional compensation on account of said revisions. The Contractor shall review the wage rates applicable to the work of the contract at regular intervals in order to ensure the timely payment of current wage rates. The Contractor agrees that no additional notice is required. The Contractor shall be responsible to notify each subcontractor of the wage rates set forth in this contract and any revisions thereto.
2. **Payroll Records.** The Contractor and each subcontractor shall make and keep, for a period of not less than five years from the date of the last payment on a contract or subcontract, records of all laborers, mechanics, and other workers employed by them on the project; the records shall include information required by 820 ILCS 130/5 for each worker. Upon seven business days' notice, the Contractor and each subcontractor shall make available for inspection and copying at a location within this State during reasonable hours, the payroll records to the public body in charge of the project, its officers and agents, the Director of Labor and his deputies and agents, and to federal, State, or local law enforcement agencies and prosecutors.
3. **Submission of Payroll Records.** The Contractor and each subcontractor shall, no later than the 15th day of each calendar month, file a certified payroll for the immediately preceding month with the public body in charge of the project, except that the full social security number and home address shall not be included on weekly transmittals. Instead the payrolls shall include an identification number for each employee (e.g., the last four digits of the employee's social security number). The certified payroll shall consist of a complete copy of the payroll records except starting and ending times of work each day may be omitted.

The certified payroll shall be accompanied by a statement signed by the Contractor or subcontractor or an officer, employee, or agent of the contractor or subcontractor which avers that: (i) he or she has examined the certified payroll records required to be submitted by the Act and such records are true and accurate; (ii) the hourly rate paid to each worker is not less than the general prevailing rate of hourly wages required; and (iii) the Contractor or subcontractor is aware that filing a certified payroll that he or she knows to be false is a Class A misdemeanor.
4. **Employees Interviews.** The Contractor and each subcontractor shall permit his/her employees to be interviewed on the job, during working hours, by compliance investigators of the Department or the Department of Labor.

State of Illinois
Department of Transportation
Bureau of Local Roads and Streets

SPECIAL PROVISION
FOR
FLAGGERS IN WORK ZONES

Effective: January 1, 1999
Revised: January 1, 2007

Revise the last paragraph of Article 701.13 of the Standard Specifications to read:

"Flaggers are required only when workers are present"

NOT FOR BID

CHECK SHEET #LRS5

State of Illinois
Department of Transportation
Bureau of Local Roads and Streets

SPECIAL PROVISION
FOR
CONTRACT CLAIMS

Effective: January 1, 2002
Revised: January 1, 2007

Revise the second sentence of subparagraph (a) of Article 109.09 of the Standard Specifications to read:

"All claims shall be submitted to the Engineer."

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

"(e) Procedure. All Claims shall be submitted to the Engineer. The Engineer will consider all information submitted with the claim. Claims not conforming to this Article will be returned without consideration. The Engineer may schedule a claim presentation meeting in the Engineer's judgement, such a meeting would aid in resolution of the claim, otherwise a decision will be based on the claim documentation submitted. A final decision will be rendered within 90 days of receipt of the claim.

Full compliance by the Contractor with the provisions specified in this Article is a contractual condition precedent to the Contractor's right to seek relief in the Court of Claims. The Engineer's written decision shall be the final administrative action of the Department. Unless the Contractor files a claim for adjudication in the Court of Claims within 60 days after the date of the written decision, the failure to file shall constitute a release and waiver of the claim.

CHECK SHEET #LRS11

State of Illinois
Department of Transportation
Bureau of Local Roads and Streets

SPECIAL PROVISION
FOR
EMPLOYMENT PRACTICES

Effective: January 1, 1999

In addition to all other labor requirements set forth in this proposal and in the Standard Specifications for Road and Bridge Construction, adopted by the Department of Transportation, during the performance of this contract, the contractor for itself, its assignees, and successors in interest (hereinafter referred to as the "Contractor") agrees as follows:

Selection of Labor. The Contractor shall comply with all Illinois statutes pertaining to the selection of labor.

Equal Employment Opportunity. During the performance of this contract, the Contractor agrees as follows:

- (a) That it will not discriminate against any employee or applicant for employment because of race, color, religion, sex, national origin, ancestry, age, marital status, physical or mental handicap or unfavorable discharge from military service, and further that it will examine all job classifications to determine if minority persons or women are underutilized and will take appropriate affirmative action to rectify any such underutilization.
- (b) That, if it hires additional employees in order to perform this contract or any portion hereof, it will determine the availability of minorities and women in the area(s) from which it may reasonably recruit and it will hire for each job classification for which employees are hired in such a way that minorities and women are not underutilized.
- (c) That, in all solicitations or advertisements for employees placed by it or on its behalf, it will state that all applicants will be afforded equal opportunity without discrimination because of race, color, religion, sex, national origin, ancestry, age, marital status, physical or mental handicap or unfavorable discharge from military service.

That it will send to each labor organization or representative of workers with which it has or is bound by collective bargaining or other agreement or understanding, a notice advising such labor organization or representative of the Contractor's obligations under the Illinois Human Rights Act and the Department's Rules and Regulations. If any such labor organization or representative fails or refuses to cooperate with the Contractor in its efforts to comply with so such Act and Rules and Regulations, the Contractor will promptly so notify the Illinois Department of Human Rights and the contracting agency and will recruit employees from other sources when necessary to fulfill its obligations thereunder.

- (e) That it will submit reports as required by the Department of Human Rights Rules and Regulations, furnish all relevant information as may from time to time be requested by the Department or the contracting agency, and in all respects comply with the Illinois Human Rights Act and the Department's Rules and Regulations.
- (f) That it will permit access to all relevant books, records, accounts and work sites by personnel of the contracting agency Illinois Department of Human Rights for purposes of investigation to ascertain compliance with the Illinois Human Rights Act and the Department's Rules and Regulations.
- (g) That it will include verbatim or by reference the provisions of this clause in every subcontract so that such provisions will be binding upon every such subcontractor. In the same manner as with other provisions of this contract, the Contractor will be liable for compliance with applicable provisions of this clause by all its subcontractors; and further it will promptly notify the contracting agency and the Illinois Department of Human Rights in the event any subcontractor fails or refuses to comply therewith. In addition, the Contractor will not utilize any subcontractor declared by the subcontracts with the State of Illinois or any of its political subdivisions or municipal corporations.

NOT FOR BIDD

CHECK SHEET #LRS13

State of Illinois
Department of Transportation
Bureau of Local Roads and Streets

SPECIAL PROVISION
FOR
SELECTION OF LABOR

Effective: January 1, 1999
Revised: January 1, 2012

The Contractor shall comply with all Illinois statutes pertaining to the selection of labor.

Employment of Illinois Workers During Periods of Excessive Unemployment. Whenever there is a period of excessive unemployment in Illinois, which is defined herein as any month immediately following two consecutive calendar months during which the level of unemployment in the State of Illinois has exceeded five percent as measured by the United States Bureau of Labor Statistics in its monthly publication of employment and unemployment figures, the Contractor shall employ at least 90 percent Illinois laborers. "Illinois laborer" means any person who has resided in Illinois for at least 30 days and intends to become or remain an Illinois resident.

Other laborers may be used when Illinois laborers as defined herein are not available, or are incapable of performing the particular type of work involved, if so certified by the Contractor and approved by the Engineer. The Contractor may place no more than three of his regularly employed non-resident executive and technical experts, who do not qualify as Illinois laborers, to do work encompassed by this Contract during a period of excessive unemployment.

This provision applies to all labor, whether skilled, semi-skilled or unskilled, whether manual or non-manual.

CHECK SHEET #LRS15

State of Illinois
Department of Transportation

SPECIAL PROVISION
FOR
PARTIAL PAYMENTS

Effective: January 1, 2007

Add the following after the first paragraph of Article 109.07 of the Standard Specifications:

"The State will deduct from the amount so determined for the first 20 percent of the completed work a sum of ten percent to be retained until after the completion of the entire work to the satisfaction of the Engineer. After 50 percent or more of the work is completed, the Engineer may, at his/her discretion, certify the remaining partial payments without any further retention, provided that satisfactory progress is being made, and provided that the amount retained is not less than five percent of the total adjusted contract price. When the principal items of the work have been satisfactorily completed, a semi-final estimate may be made with the consent of the surety. Payment to the Contractor under such an estimate shall not exceed 90 percent of the amount retained after making partial payments, but in no event shall the amount retained after making the semi-final payment be less than one percent of the adjusted contract price, nor less than \$500.00.

When any payment is made directly to the State, payments for completed work shall have deducted the proportionate share of the cost to be borne by the State. The deduction will be the estimated cost to the State divided by the awarded contract value with this percentage applied to the value of work in place. Any adjustment to be made because of changed quantities will be made when the final payment is being processed. No retainage will be held from the value of such payments."

CHECK SHEET #LRS17

State of Illinois
Department of Transportation
Bureau of Local Roads and Streets

SPECIAL PROVISION
FOR
SUBSTANCE ABUSE PREVENTION PROGRAM

Effective: January 1, 2008
Revised: January 1, 2014

In addition to all other labor requirements set forth in this proposal and in the Standard Specification for Road and Bridge Construction adopted by the Department, during the performance of this contract, the Contractor for itself, its assignees, and successors in interest (hereinafter referred to as the "contractor") agrees as follows:

Substance Abuse Prevention Program. Before the Contractor and any subcontractor commences work, the Contractor and any subcontractor shall have in place a written Substance Abuse Prevention Program for the prevention of substance abuse among its employees which meets or exceeds the requirements in 820 ILCS 265 or shall have a collective bargaining agreement in effect dealing with the subject matter of 820 ILCS 265.

The Contractor and any subcontractor shall file with the public body engaged in the construction of the public work a copy of the Substance Abuse Prevention Program along with a cover letter certifying that their program meets the requirements of the Act, or a letter certifying that the Contractor or a subcontractor has a collective bargaining agreement in effect dealing with the subject matter of this Act.



The following Special Provisions supplement the "Standard Specifications for Road and Bridge Construction", Adopted January 1, 2012, 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 Specifications and Recurring Special Provisions indicated on the Check Sheet included here in which apply to and govern the construction of Section # 14-08000-01-GM, and in case of conflict with any part, or parts, of said Specifications, the said Special Provisions shall take precedence and shall govern.

NOT FOR BID

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NOT FOR BID

Special Provisions

PREQUALIFICATIONS OF BIDDERS

Prequalification of bidders shall be required in accordance with LR 102.

LOCATION OF IMPROVEMENT

The location for this section is in Grafton Township, McHenry County, Illinois on various roads with an improvement length of 7,470 feet.

DESCRIPTION OF WORK

For Location A, Adamson Road, the work consists of the construction of a 1.5" lift of Hot Mix Asphalt Surface Course, IL 9.5, N50 along with necessary and related work as detailed in the Special Provisions and the Estimate of Quantities.

For Location B, Columbine Street, the work consists of the construction of a 0.75" lift (nominal thickness) of Leveling Binder (Machine Method), N50 and a 1.25" lift of Hot Mix Asphalt Surface Course, IL 9.5, N50 along with necessary and related work as detailed in the Special Provisions and the Estimate of Quantities.

TRAFFIC

All roads shall remain open to traffic. The Contractor shall obtain, erect, maintain and remove all signs, barricades, flagmen and other traffic control devices as may be necessary for the regulating, warning and guiding of traffic. Placement and maintenance of traffic control devices shall be as directed by the Engineer and in accordance with the applicable parts of Article 107.14 of the Standard Specifications. All traffic control shall be considered incidental to the contract.

TRAFFIC CONTROL PLAN

The Engineer shall be responsible for administration of the Traffic Control Plan.

Access to abutting properties shall be maintained at all times.

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 107.9 and the applicable parts of Section 701 and 703 of the *Standard Specifications* and the following *Highway Standards, Supplemental Specifications and Recurring Special Provisions* or other Special Provisions relating to traffic control.

Highway Standards: 701306, 701011, 701301, 701311, 701901, E.P. 24

For projects that shall exceed four (4) days duration, all signs except those referring to daily lane closures shall be post-mounted in accordance with Highway Standard 701901.

The Contractor shall insure that all traffic control devices installed by the contractor are in place and operational every day, including Sundays, holidays and under all weather conditions.

The Contractor shall obtain, erect, maintain and remove any and all signs, barricades, flaggers and other traffic control devices as may be necessary for the purpose of regulating, warning and guiding traffic. No contractor personnel or equipment shall be allowed onto the road surface or shoulders unless flaggers and traffic control devices are in place. Placement and maintenance of all traffic control devices shall be in accordance with the applicable Highway Standards and as directed by the Engineer.

All traffic control and traffic control devices shall be considered incidental and will not be measured for payment.

GENERAL AREA CLEANUP

The Contractor shall be responsible for disposing all surplus materials or construction debris related to the job. The Contractor shall also be responsible for any refuse that was discarded by the crews during the paving project.

HIGHWAY STANDARDS

Any reference to Highway Standards shall be assumed to mean the most recent revision in effect at the time of letting.

UTILITIES

The Contractor shall take any necessary precautions to protect the property of the various public and/or private utilities which may be located underground or above ground at or adjacent to the sites of this improvement(s). It shall be the Contractor's responsibility to determine from the respective utility companies the actual location of their facilities and to make arrangements to have the utility companies remove or relocate any facilities that may interfere with this improvement(s) prior to starting the work.

DRIVEWAYS & ENTRANCES

Entrances shall be constructed to whatever width and length dimensions are necessary to create and maintain a satisfactory riding condition with approval of the Engineer.

MAILBOX TURNOUTS

Mailbox turnouts shall be paved in accordance with Standard BLR 24 or to a dimension conforming to existing conditions.

EQUIPMENT FOR WEIGHING BITUMINOUS MIXTURES

Contractors shall comply with Article 1102.01(a)(9) of the Standard Specifications. Contractors will not be compensated for any bituminous mixtures which are not weighed in accordance with Article 1102.01(a)(9) of the Standard Specifications and utilized on the project.

QUALITY CONTROL/QUALITY ASSURANCE

This is a Quality Control/Quality Assurance (QC/QA) project in accordance with Article 1030 of the Standard Specifications. Per the Standard Specifications, the Contractor shall submit, in writing to the Engineer, a proposed QC plan for the project for approval before construction. **The Contractor shall notify both the Engineer and McHenry County's material testing agency 48 hours prior to any paving operations. The Contractor shall also notify the IDOT Bureau of Materials at (847) 705-4337 48 hours prior to any paving operations to set up required plant inspection. Calls must be placed prior to closing at 4:15 pm Monday through Friday.**

PAVING OPERATIONS

The Contractor shall, at all times, provide a minimum five (5) man crew for all paving operations. The five man crew will consist of a dump man, paver operator, two back screed operators and at least one lute man. The Contractor shall, when needed, lute the center seam between the two new layers of bituminous mix.

BITUMINOUS MATERIALS (PRIME COAT)

This work shall be performed in accordance with the applicable parts of Article 406 of the Standard Specifications. The bituminous material for prime coat between HMA layers shall be emulsified asphalt SS-1. Application rate for SS-1 shall be 0.08 gallons per square yard unless specified otherwise by the Engineer. The contractor shall place signs in accordance with Article 701.17(c)(1) of the Standard Specifications.

AGGREGATE (PRIME COAT)

This work shall be performed in accordance with the applicable parts of Article 406.05(b) of the Standard Specifications. Method of measurement shall be by the ton and in accordance with the applicable parts of Article 406. The application rate shall be 3 pounds per square yard unless specified otherwise by the Engineer.

HOT-MIX ASPHALT SURFACE REMOVAL - BUTT JOINT

Provisions shall be made for a satisfactory transition between pavement being resurfaced and pavement remaining at existing grade. The Contractor shall remove to a depth as specified in such a manner that a straight joint will be secured. The work shall be accomplished in accordance with the applicable portions of Article 405.08 of the Standard Specifications. The butt joints shall be cut to a depth of 2" and tapered to zero in a length specified in the Estimate of Quantities for Hot-Mix Asphalt Surface Removal - Butt Joint. Butt joints shall be ramped immediately upon completion of Hot-Mix Asphalt Surface Removal.

Prior to construction of the butt joints, the contractor shall install appropriate signing in accordance with the requirements of Section 701 of the Standard Specifications. Upon completion of the butt joint operations, "Road Construction Ahead" and "Bump" signs shall be placed on each side of the road at both the upstream and downstream ends of the area removed and remain in place until all construction on the project has been completed. "Road Construction Ahead" signs shall be accompanied by signs in accordance with Section 701 of the Standard Specifications during construction operations.

When butt joints are to be constructed under traffic, the contractor shall provide and maintain temporary bituminous ramps at both upstream and downstream ends of the area removed. The Contractor shall have sufficient bituminous materials meeting the approval of the Engineer at the worksite to construct the ramps before beginning pavement surface removal. Surface removal shall be in accordance with Section 440 of the Standard Specifications. Cold-milled bituminous tailings will not be acceptable for temporary ramps. The temporary ramps shall be constructed immediately upon completion of the removal operation. Ramps shall have a minimum taper rate of 1:40 (V:H) and shall extend the entire width of the roadway.

The contractor shall be assessed liquidated damages in the amount of \$100 per calendar day per location, not as a penalty, but as liquidated damages for each calendar day the temporary bituminous ramps or appropriate signs have not been installed in accordance with this special provision.

If both the temporary bituminous ramps and appropriate signs have not been installed in accordance with this special provision, the contractor shall be assessed liquidated damages in the amount of \$200 per calendar day per location.

Not more than seven (7) calendar days will be allowed between the time the Contractor starts removal of the existing pavement and the time the proposed surface course is to be placed.

The work will be paid for by the square yard, measured in place and computed as HOT-MIX ASPHALT SURFACE REMOVAL - BUTT JOINT which price will include all the necessary equipment and labor to complete and maintain temporary bituminous ramps.

NOT FOR BID

FINE AGGREGATE FOR HOT- MIX ASPHALT (HMA) (D-1)

Effective: May 1, 2007

Revised: January 1, 2012

Revise Article 1003.03 (c) of the Standard Specifications to read:

“(c) Gradation. The fine aggregate gradation for all HMA shall be FA 19, FA 20, FA 21 or FA 22. When Reclaimed Asphalt Pavement (RAP) is incorporated in the HMA design, the use of FA 21 Gradation will not be permitted.

NOT FOR BID

RECLAIMED ASPHALT PAVEMENT AND RECLAIMED ASPHALT SHINGLES (D-1)

Effective: November 1, 2012

Revise: November 1, 2013

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 Bureau of Materials and Physical Research Policy Memorandum "Reclaimed Asphalt Shingle (RAS) Source" by weight of RAS. All RAS used shall come from a Bureau of Materials and Physical Research 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, Superpave 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, Superpave (High ESAL), or HMA (High ESAL). If approved by the Engineer, the aggregate from a maximum 3.0 inch 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, Superpave 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 Superpave (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 FRAP/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 Bureau of Materials and Physical Research 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 PMA 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 Test Results. Evaluation of tests 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 Illinois Test Procedure, "Calibration of the Ignition Oven for the Purpose of Characterizing Reclaimed Asphalt Pavement (FRAP)" 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. 100 (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 | |
|--------------------------|--------------------------------|------|
| % Passing: ^{1/} | FRAP | FRAS |
| 1 / 2 in. | 5.0% | |
| No. 4 | 5.0% | |
| No. 8 | 3.0% | 4.0% |
| No. 30 | 2.0% | 3.0% |
| No. 200 | 2.2% | 2.5% |
| Asphalt Binder Content | 0.3% | 1.0% |
| G _{mm} | 0.05% | |

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. Acceptance 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 homogenous, 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, Superpave/HMA (High ESAL), or (Low ESAL) IL-9.5L surface mixtures are designated as containing Class B quality coarse aggregate.
- (2) RAP from Superpave/HMA (Low ESAL) IL-19.0L binder mixture is designated as Class D quality coarse aggregate.
- (3) RAP from Class I, Superpave/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 prequalified by the Department for the specified testing. The consultant 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 BMPR Aggregate Lab for MicroDeval Testing, according to Illinois Modified AASHTO T 327. A maximum loss of 15.0 percent will be applied for all HMA applications. The fine aggregate portion of the fractionated FRAP 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 through MicroDeval Testing.

1031.06 Use of FRAP and/or RAS in HMA. The use of FRAP and/or RAS shall be a 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% by weight of the total mix.

When FRAP, RAS or FRAP in conjunction with RAS is used, 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 HMA "All Other" (Shoulder and stabilized subbase) N-30, the percent asphalt binder replacement shall not exceed 50% of the total asphalt binder in the mixture.
- 2/ When the binder replacement exceeds 15 percent 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 percent 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 percent, the required virgin asphalt binder grade shall be PG64-28.
- 3/ When the ABR for SMA or IL-4.75 is 15 percent 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. A RAS stone bulk specific gravity (Gsb) of 2.500 shall be used for mix design purposes.

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

To remove or reduce agglomerated material, a scalping screen, rotor, 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 material passing the sizing device adversely affects the mix production or quality of the mix, the sizing device shall be set at a size specified by the Engineer.

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 control 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 for 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)
- (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).
- e. 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 Shoulders. The use of RAP or FRAP in aggregate surface course and aggregate shoulders shall be as follows.

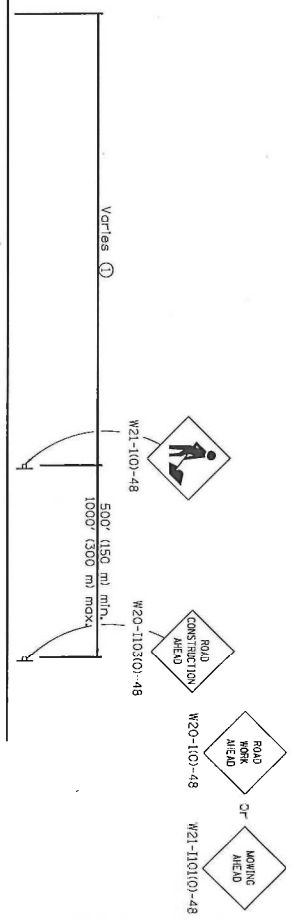
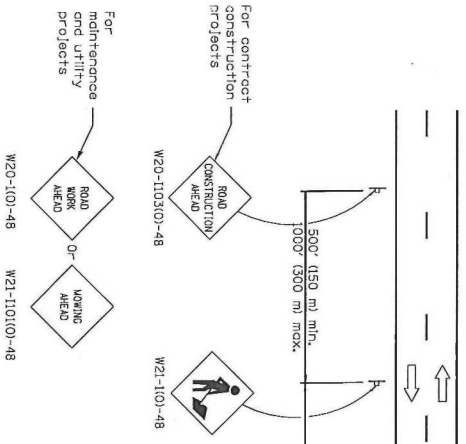
- (a) Stockpiles and Testing. RAP stockpiles may be any of those listed in Article 1031.02, except "Non-Quality" and "FRAP". The testing requirements of Article 1031.03 shall not apply. RAP used to construct aggregate surface course and aggregate shoulders shall be according to the current Bureau of Materials and Physical Research's Policy Memorandum, "Reclaimed Asphalt Pavement (RAP) for Aggregate Applications"
- (b) Gradation. One hundred percent of the RAP material shall pass the 1 1/2 in. (37.5mm) sieve. The RAP material shall be reasonably well graded from coarse to fine. RAP material that is gap-graded, FRAP, or single sized will not be accepted for use as Aggregate Surface Course and Aggregate Shoulders."

NOT FOR BID

NOT FOR BID

TYPICAL APPLICATIONS

Shoulder work
and other operations



SYMBOLS

- Work area
- P sign
- Flagging with traffic control sign when required

① Minimum distance is 200' (60 m). Maximum distance to be determined by the Engineer but should not exceed 1/2 the length required for one normal working day's operation, or 4 miles (6.4 km) whichever is less.

GENERAL NOTES

This Standard is used where at any time, any vehicle, equipment, workers or their activities require an interruption or continuous moving operation on the shoulder, where the average speed is 1 mph (2 km/h) or less.

When the work operation does not exceed 50 minutes, traffic control may be according to Standard 10.301L.

All dimensions are in feet as indicated unless otherwise shown.

Illinois Department of Transportation
 APPROVED: *[Signature]* January 11, 2004
 ENGINEER OF SAFETY ENGINEERING
 APPROVED: *[Signature]* January 11, 2004
 DIRECTOR OF DESIGN AND ENVIRONMENT

| DATE | REVISIONS |
|--------|--|
| 1-1-04 | Revised workers sign number to agree with current MUTCD. |
| 1-1-13 | Corrected text: 'WORKERS' sign. |

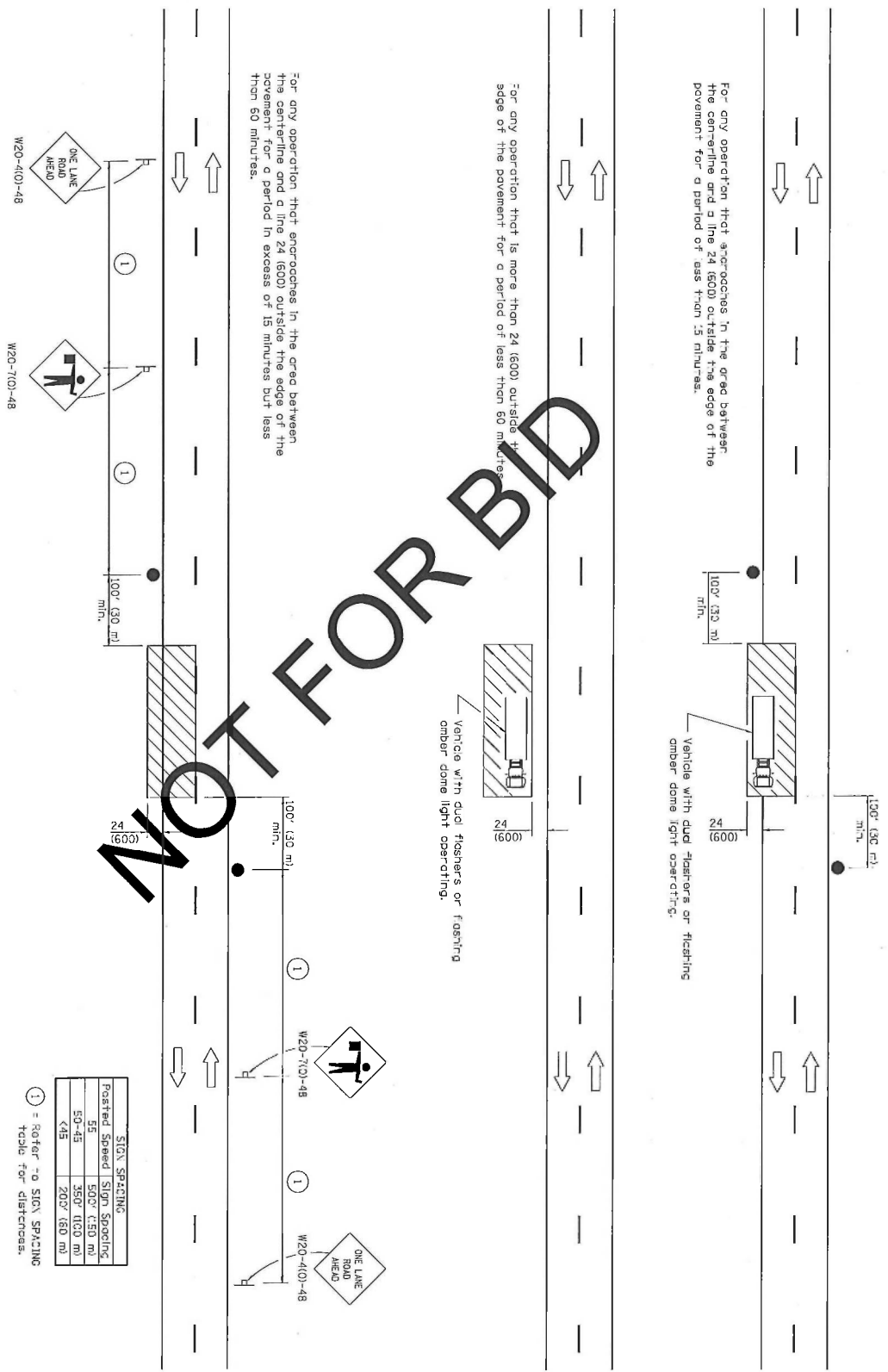
**OFF-RD MOVING OPERATIONS,
2L, 2W, DAY ONLY**

STANDARD 201011-04

For any operation that encroaches in the area between the centerline and a line 24 (600) outside the edge of the pavement for a period of less than 15 minutes.

For any operation that is more than 24 (600) outside the edge of the pavement for a period of less than 60 minutes.

For any operation that encroaches in the area between the centerline and a line 24 (600) outside the edge of the pavement for a period in excess of 15 minutes but less than 60 minutes.



NOT FOR BID

| 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.

TYPICAL APPLICATIONS

- Work on surface
- Flag survey
- Utility operations
- Centerline work on pavement

SYMBOLS

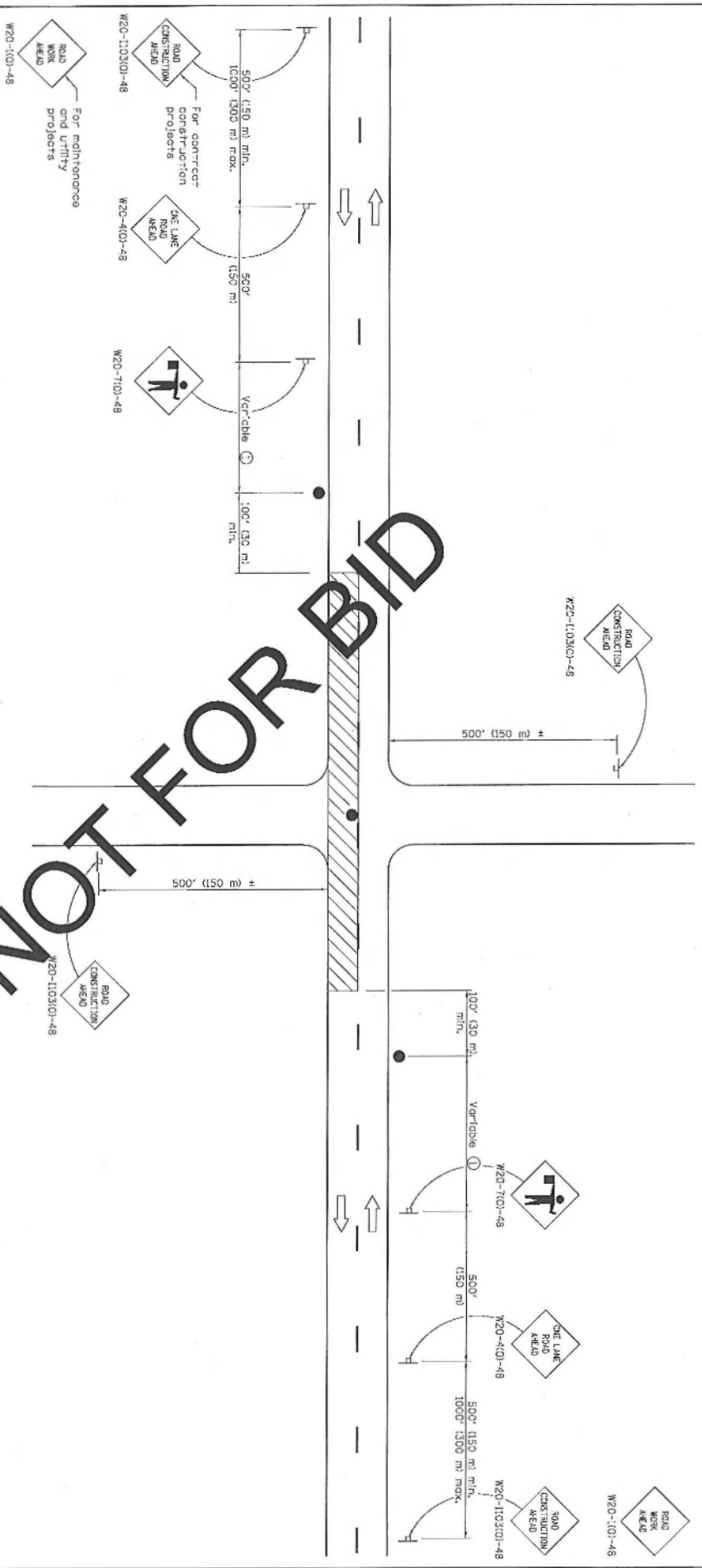
- Work area
- Sign on portable or permanent support
- Flagger with traffic control sign

Illinois Department of Transportation
 APPROVED: [Signature] JUNE 1, 2011
 ENGINEER OF SAFETY ENGINEERING
 APPROVED: [Signature] JUNE 1, 2011
 ENGINEER OF DESIGN AND ENVIRONMENT

| DATE | REVISIONS |
|--------|----------------------------------|
| 1-2-11 | Revised flagger sign |
| 1-1-09 | Switched units to English/metric |

All dimensions are in inches (millimeters) unless otherwise shown.
LANE CLOSURE, 2L, 2W, SHORT TIME OPERATIONS
 STANDARD 701301-04

NOT FOR BID



TYPICAL APPLICATIONS
 Bituminous resurfacing
 Milling operations
 Utility operations
 Shoulder operations

SYMBOLS

- ▨ Work area
- ⊥ Sign on portable or portable support
- Flagging with reflective control sign

⊙ Minimum distance is 200' (60 m). Maximum distance to be determined by the Engineer but should not exceed 1/2 the length required for one normal working day's operation or 2 miles (3200 m), whichever is less.

GENERAL NOTES

1. Standard is used where any other, any vehicle, equipment, workers or their activities reduce an intermittent or continuous moving operation on the pavement where the average speed of movement is greater than 1 mph (2 km/h); and less than 4 mph (6 km/h).
 When the operation does not exceed 60 minutes, traffic control may be according to Standard 701301.
 All dimensions are in inches (millimeters) unless otherwise shown.

Approved: _____
 Date: _____
 Engineer: _____
 Authority: _____
 Project: _____

| DATE | REVISIONS |
|------|-----------|
| | |
| | |
| | |
| | |
| | |

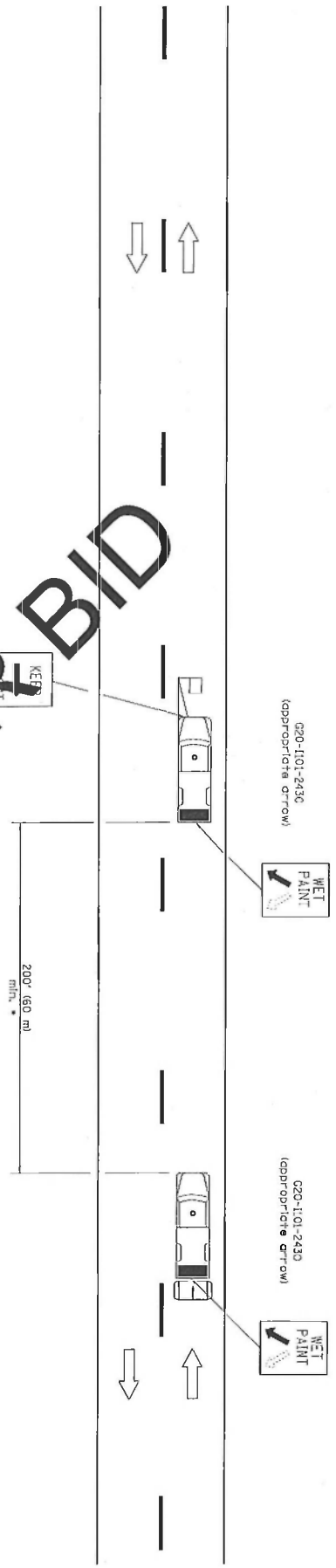
LANE CLOSURE 2L, 2W, SLOW MOVING OPERATIONS DAY ONLY, FOR SPEEDS > 45 MPH
STANDARD 701306-03

Illinois Department of Transportation
 APPROVED: [Signature] January 1, 2008
 ENGINEER OF OPERATIONS
 APPROVED: [Signature] January 1, 2008
 ENGINEER OF DESIGN AND ENVIRONMENT

ISSUED: 1-1-97

- TYPICAL APPLICATIONS**
- Landsliding work
 - Utility work
 - Pavement marking
 - Seed spraying
 - Roadometer measurements
 - Dusts Cleanup
 - Crack pouring

NOT FOR BID



SYMBOLS

- Arrow board (hazard Mode only)
- Truck with headlights, emergency flashers and flashing amber light, (visible from all directions)
- 18" (450x30) min. orange flag (use when slide wheel is used)
- Truck-mounted attenuator

* Distance varies depending on terrain and susceptibility of pavement marking or crack sealant to wheel tracking.

GENERAL NOTES

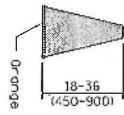
This Standard is used where any vehicle, equipment, workers or their activities will require a continuous moving operation where the average speed is greater than 3 mph (5 km/h).

For shoulder operations not encroaching on the pavement, use DETAIL A, Standard 70425. All dimensions are in inches (millimeters) unless otherwise shown.

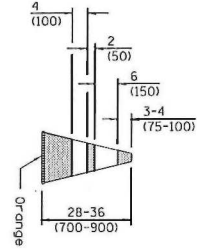
| DATE | REVISIONS |
|--------|--|
| 1-1-09 | Switched units to English (metric). Omitted Pass with Core sign. |
| 1-1-00 | Elim. speed restrictions in Standard title. |

**LANE CLOSURE 2L, 2W
MOVING OPERATIONS-
DAY ONLY**

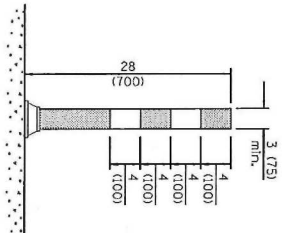
STANDARD 701311-03



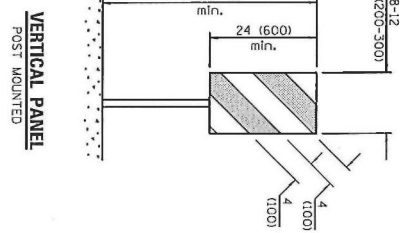
CONE



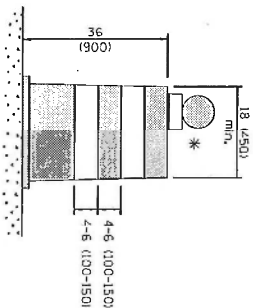
REFLECTORIZED CONE



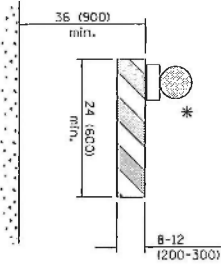
FLEXIBLE DELINEATOR



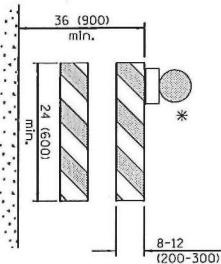
**VERTICAL PANEL
POST MOUNTED**



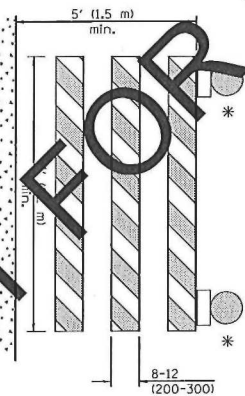
DRUM



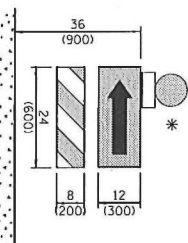
TYPE I BARRICADE



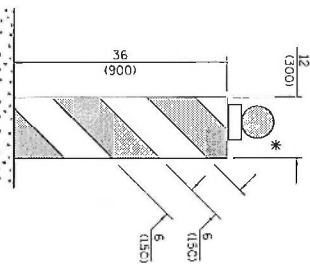
TYPE II BARRICADE



TYPE III BARRICADE

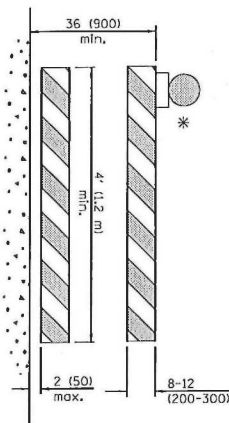


**DIRECTION INDICATOR
BARRICADE**



VERTICAL BARRICADE

* Warning lights (if required)



**DETECTABLE PEDESTRIAN
CHANNELIZING BARRICADE**

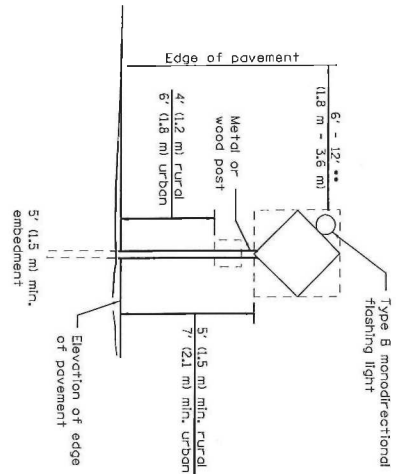
Illinois Department of Transportation
 APPROVED: [Signature] January 1, 2014
 ENGINEER OF OPERATIONS
 APPROVED: [Signature] January 1, 2014
 ENGINEER OF DESIGN AND ENVIRONMENT
 ISSUED 1-1-97

| DATE | REVISIONS |
|--------|---|
| 1-1-14 | Modified flagger sign height. |
| 1-1-12 | Added highway construction speed zone signs. |
| 1-1-12 | Added DETECTABLE PEDESTRIAN CHANNELIZING BARRICADE. |

TRAFFIC CONTROL DEVICES
 STANDARD 701901-03
 (Sheet 1 of 3)

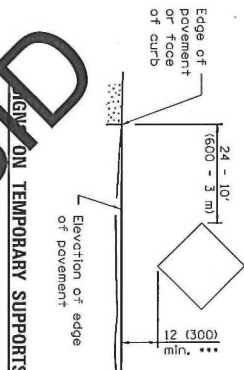
GENERAL NOTES
 All heights shown shall be measured above the pavement surface.
 All dimensions are in inches (millimeters) unless otherwise shown.

NOT FOR BID



POST MOUNTED SIGNS

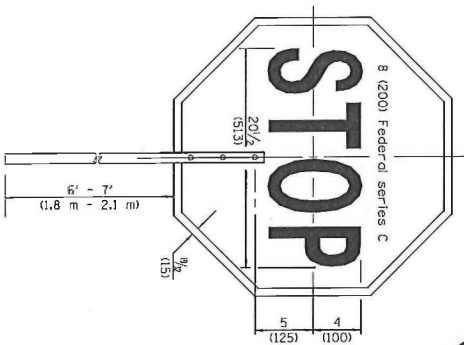
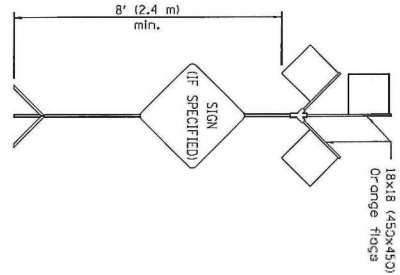
•• When curb or paved shoulder are present this dimension shall be 24 (600) to the face of curb or 6' (1.8 m) to the outside edge of the paved shoulder.



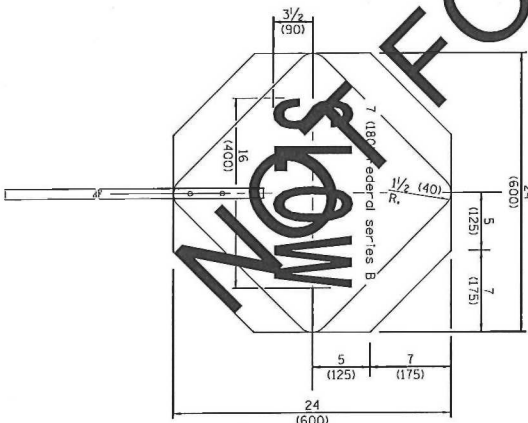
SIGN ON TEMPORARY SUPPORTS

When operations exceed 24 (600) m, this dimension shall be 5' (1.5 m) min. If located on other devices, the height shall be sufficient to be seen completely above the devices.

HIGH LEVEL WARNING DEVICE



FRONT SIDE



REVERSE SIDE

FLAGGER TRAFFIC CONTROL SIGN

Illinois Department of Transportation
 APPROVED: [Signature] January 1, 2014
 ENGINEER OF OPERATIONS
 APPROVED: [Signature] January 1, 2014
 ENGINEER OF DESIGN AND ENVIRONMENT
 ISSUED: 1-1-97

ROAD
 CONSTRUCTION
 NEXT X MILES

G20-100-6036

END
 CONSTRUCTION

G20-20(0)-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 job unless another job is within 2 miles (3200 m).

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

WORK LIMIT SIGNING

| | |
|--------------------|-----------------|
| WORK ZONE | #21-115(C)-3618 |
| SPEED LIMIT | R2-1-3648 |
| XX | |
| PHOTO ENFORCED | 910-1108P-3618 |
| \$XXX FINE MINIMUM | 92-1106P-3618 |

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

END
 WORK ZONE
 SPEED LIMIT
 220-1103(O)-3660

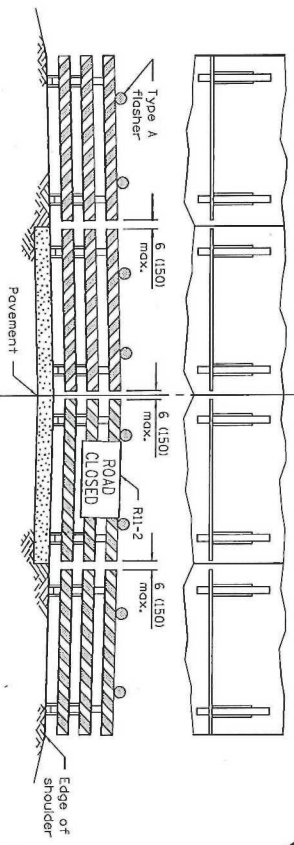
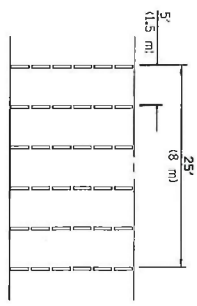
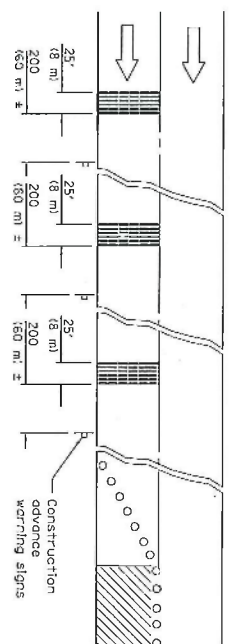
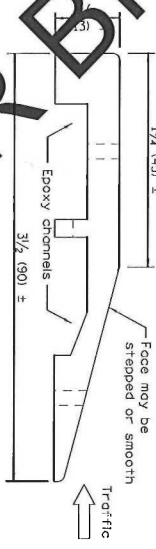
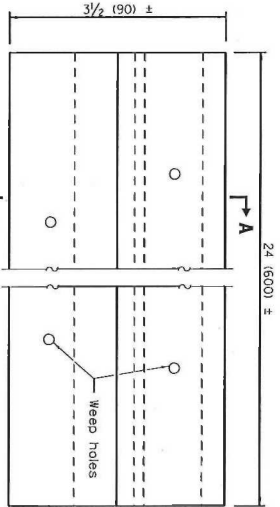
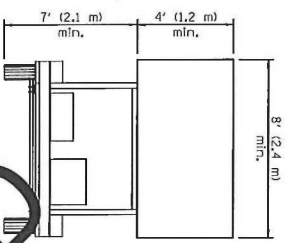
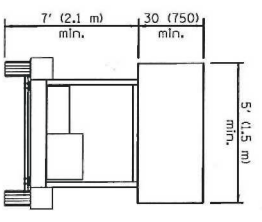
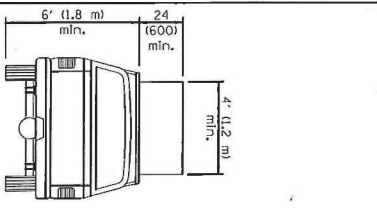
This sign shall be used when the above sign assembly is used.

**HIGHWAY CONSTRUCTION
 SPEED ZONE SIGNS**

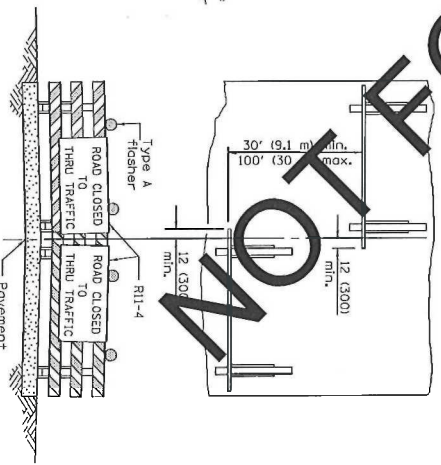
**TRAFFIC CONTROL
 DEVICES**

STANDARD 701901-03

(Sheet 2 of 3)



Reflectorized striping may be omitted on the front side of the barricades. If a thru traffic sign meets NCHRP 350 is not available, the sign may be mounted on an NCHRP 350 temporary sign support directly in front of the barricade.



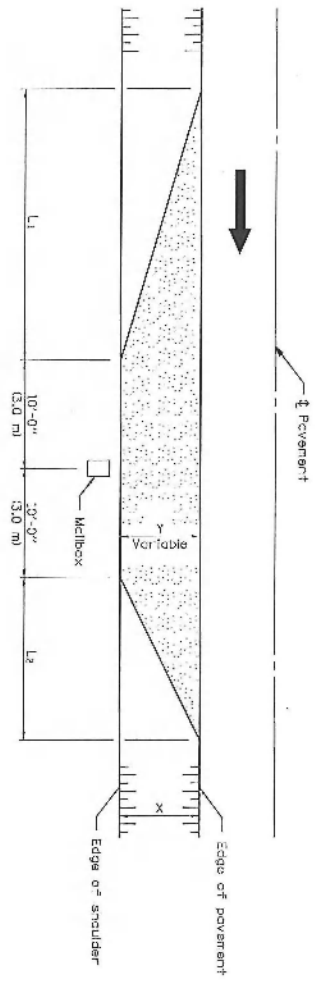
Reflectorized striping shall appear on both sides of the barricades. If a Type III barricade with an attached sign panel that meets NCHRP 350 is not available, the sign may be mounted on NCHRP 350 temporary sign support's directly in front of the barricade.

TYPICAL APPLICATIONS OF TYPE III BARRICADES CLOSING A ROAD

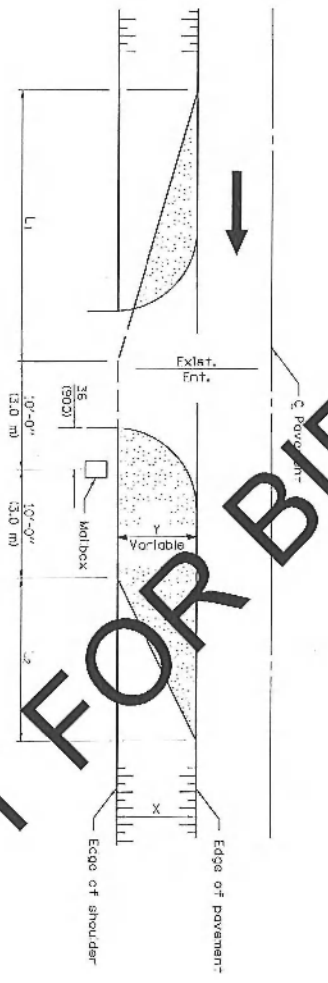
Illinois Department of Transportation
 APPROVED: January 1, 2014
 ENGINEER OF OPERATIONS: [Signature]
 APPROVED: January 1, 2014
 ENGINEER OF DESIGN AND ENVIRONMENT: [Signature]
 ISSUED: 1-1-97

TRAFFIC CONTROL DEVICES
 STANDARD 701901-03
 (Sheet 3 of 3)

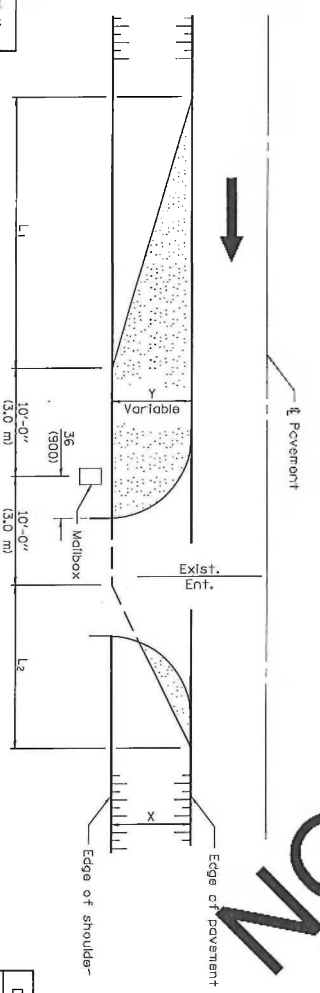
Illinois Department of Transportation
 DIVISION OF TRANSPORTATION
 DIVISION OF LOCAL ROADS AND STREETS
 APPROVED: [Signature] January 1, 2009
 APPROVED: [Signature] January 1, 2009
 PROJECT DESIGN AND IMPROVEMENT
 ISSUED 1-1-97



TYPICAL APPLICATION



MAILBOX ON FAR SIDE OF ENTRANCE



MAILBOX ON NEAR SIDE OF ENTRANCE

DIMENSIONS - Ft., (m)

| | | | | | | |
|-----------------------|----------|----------|----------|----------|----------|----------|
| Width of Shoulder (X) | 12 (3.6) | 10 (3.0) | 8 (2.4) | 6 (1.8) | 5 (1.5) | 4 (1.2) |
| Width of Turnout (Y) | 8 (2.4) | 8 (2.4) | 6 (1.8) | 4 (1.2) | 4 (1.2) | 4 (1.2) |
| L1 | 30 (9.0) | 30 (9.0) | 23 (6.9) | 15 (4.5) | 15 (4.5) | 15 (4.5) |
| L2 | 20 (6.0) | 20 (6.0) | 15 (4.5) | 10 (3.0) | 10 (3.0) | 10 (3.0) |

Note: Dimensions for Township and District Roads may vary from the above dimensions.

GENERAL NOTES

Mailboxes shall be mounted such that the face of the mailbox is 6 (150) to 12 (300) and the post a minimum of 24 (600) from the edge of the turnout surfacing.
 All dimensions are in inches (millimeters) unless otherwise shown.

| DATE | REVISIONS | MAILBOX TURNOUT FOR LOCAL ROADS STANDARD B.L.R. 24-2 |
|--------|-------------------------------------|--|
| 1-1-09 | Switched units to English (metric). | |
| 1-1-99 | Add width of shoulder X. | |

NOT FOR BID