



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

STATE OF ILLINOIS

COUNTY OF Cook

Hanover Township Road District
(Name of City, Village, Town or Road District)

- ESTIMATE OF COST
- SPECIFICATIONS
- PLANS
- MATERIAL PROPOSAL
- DELIVER AND INSTALL PROPOSAL
- CONTRACT PROPOSAL
- CONTRACT
- CONTRACT BOND

FOR THE IMPROVEMENT OF

STREET NAME OR ROUTE NO. Rohrssen Road

SECTION NO. N/A

TYPES OF FUNDS General

For Municipal Projects

Submitted/Approved/Passed _____
Date _____

 Mayor President of Board of Trustees Municipal Official

For County and Road District Projects

Submitted/Approved _____
Date _____

 Highway Commissioner

Submitted/Approved _____
Date _____

 County Engineer/Superintendent of Highways

Department of Transportation

Released for bid based on limited review

Date _____

Regional Engineer

Concurrence in approval of award

Date _____

Regional Engineer

SUPPLEMENTARY SPECIAL PROVISIONS
2013 Road Maintenance Program
Hanover Township Road District

1. Definitions

The following words and phrases, used herein, shall have the meaning ascribed to them as follows:

- A. "Hanover Township Road District" or "HTRD" or "Owner" shall mean the Hanover Township Road District, Cook County Illinois, 250 South Route 59, Bartlett, Illinois, 60103 (the "Township Office").
- B. "Bidder" shall mean each contractor bidding on the HTRD's pavement resurfacing project located on Rohrssen Road, Cook County, Illinois, including but not limited to hot-mix asphalt binder and surface courses, thermoplastic pavement markings, and restoration in strict compliance with the Project Manual, Plans, Specifications, and Drawings prepared by Gewalt Hamilton Associates, Inc. (the "Engineer") and the other Contract Documents (the "Project Work").
- C. "Successful Bidder" or "Contractor" shall mean the Bidder that receives the award of contract from the HTRD for the Project.
- D. "Contract Documents" shall mean: (i) these General Conditions and Special Provisions, and supplementary special provisions, (ii) Project Manual prepared by Engineer;

(iii) Plans, Specifications and Engineering Drawings prepared by Engineer; (iv) the Bid Proposal to be submitted on form furnished by HTRD; (v) the Tax Compliance Affidavit, (vi) the attached Certifications regarding bid rigging and adoption of sexual harassment policy, (vii) all addenda issued prior to receipt of bids, (viii) Performance Bond Labor and Material Payment Bond, IDOT Contract Bond, or irrevocable letter of credit; and (ix) IDOT Highway Permit form and Permit Bond.

Whenever the term "*addenda*" appears in any of the Contract Documents, it shall be understood to refer to any written or graphic instruments issued prior to the bid opening which modify or interpret the Contract Documents, by additions, deletions, clarifications, or corrections. Addenda will become part of the Contract Documents when the Contract is executed.

Changes or corrections may be made by the HTRD to the Contract Documents after they have been issued and before the Bid Opening. In such case, a written addendum describing the change or correction will be issued by the HTRD to all bidders on record. Such addendum or addenda shall take precedence over that portion of the documents concerned, and shall become

part of the Contract Documents.

- E. "Project Site" shall mean Rohrssen Road, Cook County, Illinois, as depicted on the Location Map, included in these bid documents.

2. Preparation and Submission of Bid

- A. The Bidder must submit its bid on the forms furnished by the HTRD. All blank spaces on the bid form must be filled in if applicable. Authorized signature must be the individual owner of a sole proprietorship, a general partner of a partnership, a duly authorized officer, attested to by the corporate secretary, of a corporation, or the manager of a limited liability company. The bid form is contained in these documents. All signatures and spaces to be completed in ink or typewritten, when applicable. Prices/Costs shall be in United States dollars. Incorrect completion, execution or submission of bids shall be sufficient grounds for rejection of a bid.
- B. All bids shall be submitted in a sealed envelope stating the following information on the face of the envelope: Bidder's Name, Address, and shall be marked "HTRD 2013 Road Maintenance Program".
- C. Bids must be received by the HTRD Clerk no later than 10:00 am on June 3, 2013. Bidders shall be responsible for the actual delivery of bids during business hours to the address indicated. It shall not be sufficient to show that the bid was mailed in time to be received before scheduled closing time for bids.
- D. Conditional Bids. Qualified bids are subject to rejection in whole or in part.
- E. Authority to Act as Agent. Upon request, the Bidder will provide proof to the HTRD that the signature on the bid form has the authority to bind the Bidder to the unit prices quoted and to the terms and conditions of a contract.
- F. Errors in Bids. When an error is made in extending total prices, the unit bid price will govern. Carelessness in quoting prices or in preparation of bid will not relieve Bidder. Erasures or changes in bids must be initialed.
- G. Withdrawal of Bid. Any Bidder may withdraw or modify his or her bid at any time prior to the scheduled closing time for receipt of bids. However, only telegrams, letters or other written requests for modifications or corrections of a previously submitted bid which are addressed in the same manner as the bid, and are received by the HTRD prior to the scheduled closing time for receipt of bids, will be accepted. The bid, when opened, will then be corrected in accordance with such written request, provided that the written request is contained in a sealed envelope which is plainly marked "Modification of Bid on HTRD 2013 Road Maintenance Program".
- H. The Bidder shall provide a name, address, and phone number of one contact

person who will be responsible for implementation of the total package bid.

3. Examination by Bidder

The Bidder shall, before submitting a bid, carefully examine the Contract Documents and visit and inspect the Project Site. If the bid is accepted, the Bidder will be responsible for all errors in its bid resulting from its failure or neglect to comply with these instructions. The HTRD will not, in any case, be responsible for any change in anticipated profits or any unanticipated losses resulting from such failure or neglect.

4. Bid Bond

Each bid shall be accompanied by a Bid Bond, certified check, cashier's check, or bank draft in an amount equal to ten percent (10%) of the bid, made payable to the Hanover Township Road District to guarantee that if the bid is accepted, the bidder will furnish a Performance Bond -Labor and Material Payment Bonds, IDOT Contract Bond or Irrevocable Letter of Credit of not less than 110% of the Contract Sum in accordance with Addendum No. One ("Payment and Performance Bond"), IDOT Permit Bond and any other bonds and/or securities required by IDOT (collectively, "IDOT Bonds"), and shall execute the Contract Documents within ten (10) days of the award of the contract. In the event the bidder fails to furnish such Payment and Performance Bond, IDOT Bonds, or Irrevocable Letter of Credit and/or execute the Contract Documents within said ten days, the amount of the check or Bid Bond shall be forfeited to the HTRD as liquidated damages.

5. Prevailing Wages

All work on the Project will be subject to the provisions of the Illinois Prevailing Wage Act (820 ILCS 130/01 *et seq.*) providing for payment of prevailing rate of wages. Contractor shall pay prevailing wages for Cook County as established by the Illinois Department of Labor for each craft or type of work needed to execute the Contract in accordance with the Illinois Prevailing Wage Act (820 ILCS 130/01, *et seq.*) The Contractor shall notify immediately in writing all of its subcontractors, of all changes in the schedule of prevailing wages. Contractor shall include in each of its subcontracts a written stipulation that not less than the prevailing rate of wages shall be paid to all laborers, workers, and mechanics performing work under the Contract and shall require each of its sub-subcontractors of every tier to include said stipulation regarding payment of prevailing rate of wages. Any increase in costs to the Contractor due to changes in the prevailing rate of wages or labor law during the term of any contract and/or sub-contract of any tier shall be at the expense of the Contractor and not at the expense of the HTRD. The Contractor shall be solely responsible to maintain accurate records as required by the prevailing wage statute and shall be solely liable for paying the difference between prevailing wages and any wages actually received by laborers, workmen and/or mechanics engaged in the work and for ensuring strict compliance with the requirements of the Act, including but not limited to providing certified payrolls to the HTRD in accordance with the Act. A copy of the current prevailing wage rates for March, 2013 is attached.

6. Minimum Qualification Documents

Each Bidder should furnish the HTRD with a list of the projects its organization has completed in the past three (3) years that are similar in size, scope, cost, and complexity to this Project Work. This list shall include the name of the project, owner, contract amount, and date of completion. In addition, describe extra costs and reason for extra cost incurred to the owner. List names and phone numbers of appropriate job reference individuals for each project listed. The list of Projects must include a minimum of five (5) projects that are similar in size, scope and complexity as the Project Work ("Minimum Qualification Documentation"). The Road District reserves the right to accept Minimum Qualification Document and Certification of Eligibility after the bid due date (see below).

7. Basis of Award

- A. Award, Rejection or Negotiation of Bids. The contract will be awarded to the lowest responsible and responsive Bidder complying with all the provisions of the General Conditions and Special Provisions, provided the bid price is reasonable and it is to the interest of the HTRD to accept it. The HTRD reserves the right to reject any or all bids received whenever such rejection is in the best interest of the HTRD. The HTRD also reserves the right to reject the bid of a Bidder who (a) has previously failed to perform properly or complete on time contracts of a similar nature, (b) when investigation shows that the Bidder is not in a position to perform the contract, (c) is delinquent on any state or federal taxes, and/or (d) is barred from bidding on this contract or any other contract pursuant to 720 ILCS 5/33E-3 and 720 ILCS 5/33E-4, (e) is not actively engaged in work of similar size, scope, and complexity as the Project Work and/or has not satisfactorily completed the minimum project work set forth in Paragraph 6 above, and/or (f) fails to submit the IDOT Certificate of Eligibility and/or Minimum Qualification Documentation required herein within two (2) business days of demand by the Road District.
- B. The HTRD reserves the right to reject any or all bids and to waive or not to waive any irregularities, informalities or variances therein, or to accept any bid considered by the HTRD to be in the best interest of the HTRD. The HTRD also reserves the right to accept all or part of a bid when the Highway Commissioner determines that it is in the best interest of the HTRD.
- C. Notwithstanding any provision herein to the contrary, the award of contract, project work, and bidder are all subject to the approval of IDOT. In the event any approval by IDOT cannot be obtained, the sole and exclusive remedy of bidder shall be the return of its bid bond by the HTRD.

8. Award of Contract

- A. The HTRD reserves the right to review all bids submitted for a period of sixty (60) days after the bid due date, and by submitting a bid, the Bidder agrees that the amount specified in his/her bid shall remain in full force and effect for such sixty (60) day period. No Bidder shall modify, withdraw, or cancel his/her bid, or any part thereof, for sixty (60) days after said bid due date, and no attempted

modification, withdrawal, or cancellation shall be valid.

- B. An approved contract executed by the HTRD Highway Commissioner is required before the HTRD is bound. An award may be canceled any time by said Highway Commissioner 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 said Highway Commissioner, the best interests of the HTRD will be promoted. In the event of such award cancellation, bidder/contractor's sole remedy shall be a refund of his/her/its bid bond.

9. Collusive Bidding

The Bidder represents and warrants that his, her, or its bid is made without any previous understanding, agreement or connection with any person, firm, or corporation making a bid for the same project; without prior knowledge of competitive prices; and is in all respects fair, without outside control, collusion, fraud or otherwise illegal action.

10. Material Inspection and Responsibility

Materials, the style, make or quality of which is specifically designated, shall be as specified. Should any substitution of material or item of equipment or apparatus be made, the HTRD's written approval must be obtained prior to installation.

11. Completion Dates

The Successful Bidder shall commence the Project Work no later than 10-days (following receipt of Notice to Proceed) and shall complete Project Work in strict compliance with the Contract Documents on or before 20 Working Days, weather permitting. Time is of the essence of the Contract.

12. Non-Discrimination

No Contractor who is the recipient of HTRD funds, or who proposes to perform any work or furnish any goods provided for herein shall discriminate against any worker, employee or applicant for employment because of religion, race, sex, color, sexual orientation, national origin, marital status, ancestry, age, physical or mental disability unrelated to ability, or an unfavorable discharge from the military service, nor otherwise commit an unfair employment practice.

13. Binding Obligation and Non-Assignability

By submitting a bid, the Bidder agrees that if awarded the bid said Successful Bidder shall be contractually bound to perform the Project Work in compliance with the Contract Documents. Successful Bidder shall not assign the whole or any part of the bid award or any obligations created or under the Contract Documents without the written consent of the HTRD. All sub-contractors shall be approved by the HTRD.

14. Taxes

The HTRD is a Tax Exempt Organization and is not subject to sales, consumer, use, and other similar taxes required by law. This exemption does not, however, apply to tools, machinery, equipment or other property leased by the Successful Bidder, or its subcontractors, or to suppliers and materials which, even though they are consumed are not incorporated into the completed Project. The Successful Bidder and its subcontractors shall be responsible for and pay any and all applicable taxes, including sales and use taxes, on such leased tools, machinery, equipment or other property and upon such unincorporated supplies and materials, and the cost of any such tax shall be included in the Bid Amount submitted by the Bidder.

15. Investigations Prior To Bid Award

The HTRD may make such investigations as are deemed necessary to determine the ability of the Bidder to perform the Project Work, and the Bidder shall furnish all such information and data for this purpose as the HTRD may request. The HTRD reserves the right to reject any bid if the evidence submitted by, or investigation of such Bidder, fails to satisfy the HTRD that such Bidder is properly qualified to carry out the obligations of the Contract Documents and to complete the work contemplated therein.

16. Bonds and/or Letter of Credit

Prior to commencement of the Project Work, Contractor must submit to the HTRD: (a) performance and payment bonds or IDOT Contract Bond, each in the amount of 110% of the Contract Sum, naming the HTRD, Hanover Township, the State of Illinois and IDOT as the primary co-obligees, in form acceptable to the HTRD co-signed by a surety company authorized by the Illinois Department of Insurance to sell and issue sureties in the State of Illinois ("Performance and Payment Bonds") or (b) an irrevocable letter of credit in the amount of 110% of the Contract Sum guarantying Contractors obligations under the Contract Documents issued by a financial institution worth at least \$40,000,000 in assets and a capital to asset ratio of not less than 6% in form acceptable to the HTRD ("Letter of Credit"), which said Bonds and/or Letter of Credit shall be conditioned upon proper and faithful performance by the Contractor of the work specified in strict accordance with the Contract Documents and payment of all debts incurred by the Contractor in the execution of the Project Work, including those for labor and materials furnished, including but not limited to compliance with the Illinois Prevailing Wage Act. Contractor shall also be required to furnish an IDOT Permit Bond, in form acceptable to IDOT co-signed by a surety company meeting the above requirements and acceptable to IDOT. The amount of the Permit Bond shall be determined by IDOT. The cost of said Performance and Payment Bonds and/or Letter of Credit and IDOT Permit Bond is included in the Contract Sum

17. Bid Amount

The Bid Amount submitted by Bidder shall include all applicable prices, materials, labor, warranties, permits, licenses, insurance and bonds and/or letter of credit costs, and all other fees, expenses, costs, profits and overhead of Bidder to complete the Project Work in strict compliance with the Contract Documents.

18. Certifications and Affidavits

The Contractor shall complete the Contractor's Certification forms and Tax Compliance Affidavit attached to the Proposal form. Failure to do so may result in disqualification of the Bidder.

19. IDOT Requirements

Each bidder should carefully review the IDOT Highway Permit form. The IDOT Highway Permit form, in part, provides that the Project Work must be construed to the satisfaction of the IDOT Regional Engineer or his/her authorized representative ("IDOT Engineer"); requires that all revisions or additions to the Project Work be approved by the IDOT Engineer; requires that the Project Work comply with all standards, specifications, understandings, and/or conditions imposed by the IDOT Engineer; requires certain restoration work and traffic controls; imposes limitations on the hours and days in which Project Work can be performed; and additional requirements, obligations, limitations and restrictions imposed therein and/or by IDOT and/or the IDOT Engineer (collectively, the "IDOT Requirements").

The IDOT Requirements are applicable to the Project Work that occurs within or affects the IDOT right of way.

20. Payment

- A. All payments under the Contract shall be based on the unit prices set forth in Contractor's Bid Form (including any alternates approved by the HTRD) (the "Contractor's Bid Proposal") and based on actual quantities supplied and installed/constructed by Contractor in accordance with the terms and conditions herein, as determined and certified by Gewalt Hamilton Associates Inc. (the "Engineer").

Neither Owner nor Engineer guarantees the accuracy of the estimated units for completion of the Project Work. In no event shall Contractor be entitled to any additional compensation for lost profits and/or revenues due to estimated units exceeding actual units.

- B. In addition to the payment request documentation set forth under the Contract, Contractor shall provide the following documentation to the HTRD and the Engineer:
 - (1) Contractor shall provide monthly invoices to the HTRD throughout the Project Work. It shall be a condition precedent to the HTRD obligation to make a monthly progress payment that the Contractor shall have submitted to the Engineer, on or before the first day of the month in which the Contractor is applying for a payment, the following documentation, which shall hereinafter collectively be referred to as the "Contractor's Progress Payment Documents":
 - (2) An itemized Application of Payment for operations completed in

accordance with the schedule of values, supported by such data to substantiate the Contractor's right to payment as the HTRD and the Engineer may require, such as copies of requisitions from material suppliers, and reflecting a 10% retainage until after final acceptance has been made by the HTRD. Payment shall be further reduced by such additional amounts that Engineer determines for non-conforming work and unsettled claims.

- (3) A general Contractor's Sworn Statement in form customarily used by Chicago Title and Trust Company.
 - (4) Current Partial Waivers of Lien from the Contractor and from all subcontractors of every tier and all of the material suppliers that supplied labor and/or material in connection with the Project covering such period.
 - (5) All of the Contractor's Progress Payment Documents shall be sworn to and notarized.
 - (6) Such additional documentation and/or information requested by the HTRD and/or Engineer relative to said payment.
- C. Following completion of the Project Work, Contractor shall furnish the HTRD the following documents: final lien waivers from (i) Contractor; (ii) all subcontractors of every tier that furnished labor and/or materials for the Project Work; and (iii) all suppliers that furnished materials in connection with the Project Work; all of which shall be signed and notarized and such additional documentation and/or information requested by the HTRD relative to said payment.
- D. It shall be a condition precedent to any payment required by the HTRD hereunder, that the HTRD and the Engineer have determined that the Project Work being invoiced is free from any defects and has been completed in strict accordance with the terms and conditions herein. The HTRD shall deduct from the final payment hereunder, amounts as determined for incomplete Work, including but not limited to punch list work, and any required Restoration Work, and for any unsettled claims. Payment for work within any IDOT right-of-way shall be contingent upon IDOT approval.
- E. Payments shall be further contingent upon the consent of the surety issuing the performance and payment bonds, IDOT Contract Bond, IDOT Permit Bond, and/or other bond hereunder to said payment. Any amounts required to be withheld from said payment by the surety shall be withheld without any liability to HTRD.
- F. In the event the Contractor, Engineer and/or HTRD is in receipt of any claim(s) for lien and/or other notice of any claim in connection with the Project, the amount claimed shall be held out from payment for a period of at least 120 days to determine whether said claimant files a lawsuit to foreclose or otherwise adjudicate its lien claim. In the event a lawsuit is in fact filed within the statutory period, HTRD, in its sole discretion, any elect to (a) file an interpleader action

and/or intervene in the lawsuit and deposit the amount in question with the Clerk of the Court or (b) continue to hold said disputed sum until the lawsuit has been full adjudicated or settled, or (c) elect to pay said disputed sum to the Contractor after having first received such additional indemnification agreement(s) and surety bond(s) as are acceptable to HTRD. In the event the- lien claimant fails to file a lawsuit within the applicable statutory period, the Contractor shall either furnish a release or final waiver from said lien claimant or furnish HTRD with an indemnification agreement and an additional mechanic's lien bond in form approved by the HTRD issued by a surety company acceptable to the HTRD.

- G. It shall also be a condition precedent to any payment hereunder that Contractor must complete and submit certified payrolls to HTRD covering all payouts in strict compliance with the Prevailing Wage Act (820 ILCS 130/01, et seq.) (the "Certified Payrolls"). HTRD will not process or release any payments prior to receiving the Certified Payrolls relative to each applicable pay application.
- H. Notwithstanding the foregoing, in no event shall the HTRD's acceptance of the Project Work, Contractor's Payment Request Documentation, Engineer's Certification and/or the HTRD's payments to Contractor be deemed a waiver, express or implied, of any warranties required herein.

21. Non-Discrimination

Contractor shall not discriminate against any worker, employee or applicant for employment because of religion, race, sex, sexual orientation, color, national origin, marital status, ancestry, age, physical or mental disability unrelated to ability, or an unfavorable discharge from the military service, nor otherwise commit an unfair employment practice.

22. Compliance With Law

All goods, equipment, materials, and all labor furnished by Contractor and subcontractors of every tier shall comply with all applicable federal, state and local laws, regulations, rules, ordinances, statutes and codes relative thereto including, but not limited to, all safety related regulations as required by the Illinois Department of Transportation (IDOT), Federal Occupational Safety and Health Act (OSHA), the Americans with Disabilities Act of 1990 as amended, Illinois Department of Labor (IDOL), United States Department of Labor (USDOL), the Human Rights Commission, the Illinois Department of Human Rights, EEOC, Environmental Laws (defined below), and all applicable Cook County, Illinois Building Codes (collectively, the "Laws"). To the fullest extent permitted by law, the Contractor shall indemnify, defend, and hold harmless the HTRD, Hanover Township, the State of Illinois, IDOT, the Engineer, and their respective officials, officers, employees, volunteers, directors, agents, invitees, and others associated with the State of Illinois and/or IDOT from loss or damage, including but not limited to, attorney's fees, and other costs of defense by reason of actual or alleged violations of any of the Laws. In the event of any conflict and/or inconsistencies between any of the Laws, the most stringent Laws shall be controlling and applicable to the Project Work. This obligation shall survive the expiration and/or termination of this Agreement.

23. Indemnification

To the fullest extent permitted by law, the Contractor shall indemnify, defend and hold harmless HTRD, Hanover Township, the Engineer, the State of Illinois, IDOT, and their respective officials, officers, employees, agents, invitees, and others associated with the State of Illinois and/or IDOT (collectively, the "Indemnified Parties"), against all injuries, deaths, damage to property, loss, damages, claims, suits, liens, lien rights, liabilities, judgments, costs and expenses which may in any way arise directly or indirectly from the Project Work, Repair Work and/or Warranty Work provided hereunder, and/or any acts and/or omissions of or on behalf of the Contractor, its employees, contractors, subcontractors of any tier, suppliers, and/or agents and/or any person and/or entity acting on behalf of any of them ("Contractor's Agents"); except to the extent caused by the negligence of a party indemnified hereunder. In which case, Contractor shall at its own expense, appear, defend and pay all charges of attorneys and costs and other expenses arising therefrom or incurred in connection therewith, and if any judgment shall be rendered against the Indemnified Parties or any of them, in any such action, Contractor agrees that any bond or insurance protection required herein, or otherwise provided by Contractor, shall in no way limit the responsibility to indemnify, keep and save harmless and defend the Indemnified Parties as herein provided. Contractor shall similarly protect, indemnify and hold and save harmless the Indemnified Parties against and from any and all claims, costs, causes, actions and expenses including but not limited to attorney's fees, incurred by reason of Contractor's breach of any of its obligations under, or Contractor's default of, any provision of the Agreement. This obligation shall survive the expiration and/or termination of the Agreement.

24. Binding Obligation and Non-Assignability

Contractor shall not assign the whole or any part of this Agreement without the written consent of the HTRD. All subcontractors shall be approved by the HTRD. Any such assignment by Contractor without the HTRD's written approval shall be null and void.

25. Investigations by Contractor

Contractor has made such investigations as it deems necessary to perform the Project Work, including but not limited to, Project Site inspections, and represents and warrants that the Specifications, Plans, Drawings and other Contract Documents as defined in the General Conditions are adequate and the required result can be produced thereunder. No plea of ignorance of conditions that exist or of conditions or difficulties that may be encountered in the execution of the Project Work under this Agreement as a result of failure to make the necessary investigations will be accepted as an excuse for any failure or omission on the part of Contractor to fulfill in every detail all of the requirements of this Agreement, or will be accepted as a basis for any claims whatsoever, for extra compensation.

26. Insurance

Contractor shall procure and maintain for the duration of the Project Work, Repair Work and Warranty Work, insurance of the types and in amounts of not less than the coverages listed below. The cost of such insurance is included in the Contract Sum.

A. Commercial General and Umbrella Liability Insurance.

Contractor shall maintain commercial general liability (CGL) insurance with a limit of not less than \$1,000,000 each occurrence. If the CGL contains a general aggregate limit, it shall be in an amount not less than \$2,000,000 or its shall apply separately to this project/location.

CGL insurance shall be written on Insurance Services Office (ISO) occurrence from CG 00 01 10 93, or a substitute form providing equivalent coverage, and shall cover liability arising from: liability arising out of the Project Work, including activities performed by or on behalf of Contractor; premises owned, leased, or used by Contractor; operations; administration of the work; independent contractors; subcontractors; vendors and suppliers; products-completed operations; personal injury and advertising injury; and liability assumed under an insured contract (including the tort liability of another assumed in a business contract).

Any endorsement or policy provision which limits contractual liabilities shall be deleted in its entirety.

The HTRD, Hanover Township, the Engineer, the State of Illinois, IDOT and each of their respective officers, officials, directors, employees, volunteers, agents, invitees and others associated with the State of Illinois and/or IDOT (collectively, the "Additional Insured") shall be included as an insured under the CGL, Commercial Umbrella Liability Coverage, and Business Auto Liability Coverage, using ISO additional insured endorsement CG 20 10 or substitute providing equivalent coverage.

These insurance coverages shall apply as primary insurance with respect to any other insurance or self-insurance afforded to the Additional Insured, or any of them, and shall not require exhaustion of any other coverage or tender of any claim or action to any other insurer providing coverage to any of the Additional Insured. The coverage shall contain no special limitations on the scope of protection afforded to the Additional Insured, or any of them.

There shall be no endorsement or modification of the CGL limiting the scope of coverage for liability arising from explosion, collapse or underground property damage.

B. Continuing Completed Operations Liability Insurance.

Contractor shall maintain commercial general liability (CGL) coverage with a limit

of not less than \$1,000,000 each occurrence for at least three years following substantial completion of the Project Work.

Continuing CGL insurance shall be written on ISO occurrence form CG 00 01 10 93, or substitute form providing equivalent coverage, and shall, at a minimum, cover liability arising from products-completed operations and liability assumed under an insured contract.

Continuing CGL insurance shall have a products-completed operations aggregate of at least two times its each occurrence limit.

C. Business Auto Liability Insurance.

Contractor shall maintain business auto liability insurance with a limit of not less than \$1,000,000 each accident. Such insurance shall cover liability arising out of "Any Auto" including owned, hired and non-owned autos.

Business auto insurance shall be written on Insurance Services Office (ISO) form CA 00 01, CA 00 05, CA 00 12, CA 00 20, or a substitute form providing equivalent liability coverage. If necessary, the policy shall be endorsed to provide contractual liability coverage equivalent to that provided in the 1990 and later editions of CA 00 01.

D. Workers Compensation and Employees Liability Insurance.

Contractor shall maintain workers compensation as required by statute and employers liability insurance. The employers liability limits shall not be less than \$500,000 each accident for bodily injury by accident or \$500,000 each employee for bodily injury by disease.

If the HTRO, Hanover Township, the State of Illinois, IDOT, and/or the Engineer have not been included as an insured under the Commercial General Liability, Excess Umbrella Liability Insurance and/or Business Auto Liability coverages required in the Contract, then the Contractor waives all rights against the HTRO, Hanover Township, the State of Illinois, IDOT, and Engineer, and each of their respective officers, officials, directors, employees, volunteers, agents, invitees, and others associated with the State of Illinois and/or IDOT, for recovery of damages arising out of or incident to the Project Work.

E. Excess Umbrella Liability Insurance Coverage.

Contractor shall maintain Excess Umbrella Liability Insurance coverage of not less than \$1,000,000. The minimum amount of Excess Umbrella Liability Insurance Coverage required may be reduced by the amount that Contractor's CGL coverage per occurrence exceeds \$1,000,000.

F. General Insurance Provisions.

i. Evidence of Insurance.

Prior to beginning work, Contractor shall furnish the HTRD with a certificate(s) of insurance and applicable policy endorsement(s), including but not limited to all additional insured endorsements required herein, executed by a duly authorized representative of each insurer, showing compliance with the insurance requirements set forth above.

All certificates shall provide for 30 days' written notice to the HTRD and Hanover Township prior to the cancellation or material change of any insurance referred to therein. Written notice to the HTRD and Hanover Township shall be by certified mail, return receipt requested.

Failure of the HTRD and/or Hanover Township to demand such certificate, endorsement or other evidence of full compliance with these insurance requirements or failure of the HTRD and/or Hanover Township to identify a deficiency from evidence that is provided shall not be construed as a waiver of Contractor's obligation to maintain such insurance.

The HTRD and/or Hanover Township shall have the right, but not the obligation, of prohibiting Contractor or any subcontractor of any tier from entering the Project Site(s) until such certificates or other evidence that insurance has been placed in complete compliance with these requirements is received and approved by the HTRD and/or Hanover Township.

Failure to maintain the required insurance may result in termination of this Contract at the option of the HTRD.

With respect to insurance maintained after final payment in compliance with a requirement above, an additional certificate(s) evidencing such coverage shall be promptly provided to the HTRD and Hanover Township whenever requested.

Contractor shall provide certified copies of all insurance policies required above within 10 days of the HTRD and/or Hanover Township's written request for said copies.

ii. Acceptability of Insurers

Insurance shall be provided by insurance companies licensed to do business in the State of Illinois with a policy holder rating of not less than A and a financial rating of not less than VII in the latest edition of Best Insurance Guide.

iii. Cross-Liability Coverage.

If Contractor's liability policies do not contain the standard ISO separation of insureds provision, or a substantially similar clause, they shall be endorsed to provide cross-liability coverage.

iv. Deductibles and Self-Insured Retentions.

Any deductibles or self-insured retentions must be declared to the HTRD and Hanover Township. At the option of the HTRD and/or Hanover Township, Contractor may be asked to eliminate such deductibles or self-insured retentions as respects the additional Insured or required to procure a bond guaranteeing payment of losses and other related costs, including, but not limited to, investigations, claim administration and defense expenses.

v. HTRD and Hanover Township Shall Not Waive Any Rights of Subrogation.

Neither HTRD nor Hanover Township shall, in any manner, be deemed or intended to have waived any right of subrogation which either they, and/or any of them, and/or their respective insurance carrier and/or risk pool provider, risk management agency, and/or insurance company providing excess coverage on behalf of the any of them may have against the Contractor, for any property injury, death, or other damage caused by Contractor, and/or any of its subcontractors of any tier, and/or otherwise arising out of the Project Work.

vi. Failure to Comply With Insurance Reporting Provisions

All insurance required of the Contractor shall provide that any failure to comply with reporting provisions of the policies shall not affect coverage provided to the Additional Insured, or any of them.

vii. All Insurance Obtained Shall Apply Separately to Each Insured.

All insurance required of the Contractor shall provide that the insurance shall apply separately to each insured against whom a claim is made or suit is brought, except with respect to the limits of the insurer's liability.

viii. Insurance Requirements Cannot be Waived.

Under no circumstances shall the HTRD, Hanover Township, and/or any of the other Additional Insured be deemed to have waived any of the insurance requirements of this Contract by any action or omission, including, but not limited to:

- a. allowing any work to commence by the Contractor before receipt of Certificates of Insurance;
- b. failing to review any Certificates of Insurance received;
- c. failing to advise the Contractor that any Certificate of Insurance fails to contain all the required insurance provisions, or is otherwise deficient in any manner; and/or
- d. issuing any payment without receipt of a sworn certification from the Contractor stating that all the required insurance is in force.

The Contractor agrees that the obligation to provide the insurance required by these documents is solely its responsibility and that this is a requirement which cannot be waived by any conduct, action, inaction or omission by the HTRD, Hanover Township, and/or any of the other Additional Insured.

ix. Liability of Contractor is not Limited by Purchase Of Insurance.

Nothing herein contained in the insurance requirements of the Contract Documents is to be construed as limiting the liability of the Contractor, and/or their respective insurance carriers. HTRD and the other Additional Insureds do not, in any way, represent that the coverages or limits of insurance specified is sufficient or adequate to protect the Additional Insured, or any of them, the Contractor, or any subcontractor's interest or liabilities, but are merely minimums. Any obligation of the Contractor to purchase insurance shall not, in any way, limit their obligations to the Additional Insured in the event that the Additional Insured, or any of them should suffer an injury or loss in excess of the amount recovered through insurance, or any loss or portion of the loss which is not covered by either the Subcontractor's and/or Contractor's insurance.

x. Notice of Personal Injury or Property Damage.

Contractor shall notify the HTRD, Hanover Township, and Engineer, in writing, of any actual or possible claim for personal injury or property damage relating to the work, or of any occurrence which might give rise to such a claim, promptly upon obtaining first knowledge of same.

xi. Subcontractors.

Contractor shall cause each subcontractor employed by Contractor to purchase and maintain insurance of not less than the types and amounts specified above. When requested by HTRD, Contractor shall furnish copies of certificates of insurance evidencing coverage for each subcontractor.

27. Default.

In the event of default hereunder, the non-defaulting party shall be entitled to all remedies available at law and/or equity, including reasonable attorney's fees, subject to the limitations set forth in paragraph L below.

28. Limitation on the Owner's Liability.

The Contractor agrees to waive any right which it may have to punitive, consequential, special, indirect, incidental, and/or exemplary damages against the HTRD, Hanover Township, Engineer, the State of Illinois and IDOT, and agrees not to make any claim or demand for such damages against the HTRD, Hanover Township, the Engineer, the State of Illinois and/or IDOT.

29. Hazardous Substances.

Contractor shall not cause or permit any Hazardous Substances to be brought upon, kept, stored or used in or about the Project Site, and/or any other property owned, leased, controlled or under the jurisdiction of HTRD, Hanover Township, the State of Illinois and/or IDOT ("Owner's Property") by Contractor, its employees, subcontractors of any tier, suppliers and anyone for whose acts and/or omissions for whom Contractor may be liable (collectively "Contractor's Agents"). If the presence of Hazardous Substances brought upon, kept, stored or used in or about any of the Owner's Property by or on behalf of Contractor or Contractor's Agents in violation of this paragraph, results in contamination of the said Property, Contractor shall pay for all actual costs of clean up and shall indemnify, hold harmless and defend the Indemnified Parties (described above) and against any and all claims, demands, expenses (including reasonable attorneys' fees), costs, fines, penalties and other liabilities of any and every kind and nature, including, but not limited to, costs and expenses incurred in connection with any clean-up, remediation, removal or restoration work required by any federal, state or local governmental authority because of the presence of any such Hazardous Substances on or about said Property.

For purposes hereof, Hazardous Substances shall include, but not be limited to, substances defined as "hazardous substances," "toxic substances" in the federal Comprehensive Environmental Response, Compensation and Liability Act of 1980, as amended; the federal Hazardous Materials Transportation Act, as amended; and the federal Resource Conservation and Recovery Act, as amended ("RCRA"); those substances defined as "hazardous substances," "materials," or "wastes" under any Federal law or the law of the State of Illinois; and as such substances are defined in any regulations adopted and publications promulgated pursuant to said laws (collectively, "Environmental Laws"). If Contractor's activities or the activities of any of Contractor's Agents violate or create a risk of violation of any Environmental Laws, Contractor shall cause such activities to cease immediately upon notice from the HTRD and/or IDOT. Contractor shall immediately notify IDOT (if within or affecting an IDOT right-of-way) and the HTRD both by telephone and in writing of any spill or unauthorized discharge of Hazardous Substances or of any condition constituting an "imminent hazard" under any Environmental Laws.

Contractor's indemnification obligations and duties hereunder shall survive the termination and/or expiration of this Contract.

30. Delays in Project Work.

Notwithstanding any provision herein to the contrary, the Contractor shall not be entitled to an increase in the Contract Sum as a result of any delays in the progress of the Work. The Contractor's sole remedy for delay shall be an extension of time.

If the Contractor, but for a delay not within the Contractor's control, would have completed the Work prior to the project completion date, the Contractor shall not be entitled to any recovery of damages arising out of any event of delay which prevented such early completion of the Work.

31. Change Orders.

(A) Notwithstanding any provisions herein to the contrary, where proposed changes to the Project Work involve a modification to (i) the Contract Sum; (ii) the Contract Time, or (iii) material changes in the Work (Le., other than minor field changes), a written Change Order shall be prepared by the Engineer. It shall be a condition precedent to the acceptance of any Change Order or any Series of Change Orders which involves an increase or decrease in the Contract Sum of \$10,000 or more or changes the time of completion by a total of thirty (30) days or more, that the Highway Commissioner shall have first approved such written Change Order(s) and made the requisite determinations and findings in writing as required by 720 ILCS 5/33 E-9 (as amended). Other changes involving modifications to the Contract Sum, Contract Time or material change in the Work which will result in an increase or decrease of less than \$10,000 or extension of less than thirty (30) days to the Contract Time shall be made by the Highway Commissioner.

(B) All change orders will be calculated based solely on Contractor's Unit Pricing set forth in Contractor's Proposal and actual revised quantities, regardless of whether the change order is for an increase or decrease in Project Work. No additional compensation will be allowed for change orders for additional work other than based on Contractor's Unit Pricing times the increased actual units constructed calculated by the Engineer, in that said Unit Pricing already reflects Contractor's overhead and profits.

(C) Notwithstanding any provision herein to the contrary all change orders (pertaining to work within or affecting the IDOT right of way) are subject to approval by IDOT.

32. Relationship of the Parties.

A. It is understood, acknowledged and agreed by the parties that the relationship of the Contractor to the HTRD arising out of this Agreement shall be that of an independent contractor. Neither Contractor, nor any employee or agent of Contractor, is an employee, partner, joint venturer, and/or agent of the HTRD, and therefore is not entitled to any benefits provided to employees of the HTRD. Contractor has no authority to employ/retain any person as an employee or agent for or on behalf of the HTRD for any purpose. Neither Contractor nor any person engaging in any work or services related to this Agreement at the request or with the actual or implied consent of the Contractor may represent himself to others as an employee of the HTRD. Should any person indicate to the Contractor or any employee or agent of Contractor by written or oral communication, course of dealing or otherwise, that such person believes Contractor to be an employee or agent of the HTRD, Contractor shall use its best efforts to correct such belief. In ordering or accepting delivery of or paying for any goods or services, Contractor shall do so in Contractor's

own business.

- B. Contractor shall at all times have sole control over the manner, means and methods of performing the services required by this Agreement according to its own independent judgment. Contractor acknowledges and agrees that it will devote such time and resources as necessary to produce the contracted for results. Neither HTRD, Hanover Township, nor the Engineer shall have any control over, change of, nor be responsible for, the construction means, methods, techniques, sequences of procedures, or for safety precautions and programs in connection with the Work since they are solely the Contractor's rights and responsibilities. The Contractor shall supervise and direct the Work efficiently with his, her or its best skill and attention; and the Contractor shall be responsible for initiating, maintaining and supervising all safety precautions and programs in connection with the work; and the Contractor shall take all necessary precautions for the safety of, and shall provide the necessary protection to prevent damage, injury or loss to all employees on the Project Site and all other persons who may be affected thereby.

33. Exhibits and Contract Documents.

All Exhibits and Contract Documents referred to herein are expressly incorporated herein and made a part hereof.

34. Assumption of Liability.

To the fullest extent permitted by law, Contractor assumes liability for all injury to or death of any person or persons including employees of Contractor, any subcontractor of any tier, any supplier or any other person and assumes liability for all damage to property sustained by any person or persons occasioned by or in any way arising out of any work performed pursuant to this Contract.

35. IDOT Requirements.

- A. The IDOT Highway Permit form, in part, provides that the Project Work must be constructed to the satisfaction of the IDOT Regional Engineer or his/her authorized representative ("IDOT Engineer"); requires that all revisions or additions to the Project Work be approved by the IDOT Engineer; requires that the Project Work comply with all standards, specifications, understandings, and/or conditions imposed by the IDOT Engineer; requires certain restoration work and traffic controls; imposes limitations on the hours and days in which Project Work can be performed; and additional requirements, obligations, limitations and restrictions imposed therein and/or by IDOT and/or the IDOT Engineer (collectively, the "IDOT Requirements"). The IDOT Requirements are applicable to the Project Work that occurs within or affects the IDOT right of way. Any breach by Contractor and/or Contractor's Agents of any IDOT Requirement shall be a material breach of this Agreement.

- B. In addition to the other bond requirements set forth herein, Contractor shall

furnish, at its sole cost, an IDOT Permit Bond co-signed by a surety company authorized by the Illinois Department of Insurance to sell and issue sureties in the State of Illinois and subject to approval by IDOT. Contractor shall similarly furnish any other bond and/or such additional bond and/or other security required by IDOT, co-signed by sureties acceptable to IDOT (collectively, the "IDOT Bonds"). The cost of the IDOT Bonds is included in the Contract Sum.

36. Permits and Bonds.

In addition to the above mentioned IDOT Bonds, Contractor shall obtain at its sole cost any and all other bonds, permits and approvals from any federal, state and/or local government and/or agency or body thereof that has jurisdiction over the Project Site and/or Project Work. The cost of such bonds, permits, and approvals is included in the contract sum.

37. Illinois Human Rights Act.

The Contractor shall comply with all terms and procedures of the Illinois Human Rights Act, (775 ILCS 5 et seq.) and Contractor represents and warrants to HTRD as follows:

- A. That it will not discriminate against any employees or applicant for employment because of race, color, religion, sex, marital status, national origin or ancestry, age physical or mental handicap unrelated to ability, or an unfavorable discharge from military service, and further that it will examine all job classifications to determine if minority persons or women are under-utilized and will take appropriate affirmative action to rectify any such under-utilization.
- B. That, if it hires employees in order to perform this Contract or any portion thereof, it will determine the availability (in accordance with the Department's Rules and Regulations) of minorities and women in the areas 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, marital status, national origin, or ancestry, age, physical or mental handicap unrelated to ability, or an unfavorable discharge from military service.
- D. That it will send to each labor organization or representative of workers with which it has or is bound by a 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 such Acts and Rules and Regulations, the Contractor will promptly so notify the Department 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's 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 and the Department for purposes of investigation to a certain compliance with the Illinois Human Rights Act to a certain compliance with the Illinois Human Rights Act.
- G. That it will include verbatim or by reference the provisions of these clauses in every subcontracting awards under which any portion of the Contract obligations are undertaken or assumed, so that each provision will be binding upon 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 such subcontractors; and further it will promptly notify the contracting agency and the Department in the event any Subcontractor fails or refuses to comply therewith. In addition, the Contractor will not utilize any subcontractor declared by the Illinois Human Rights Commission to be ineligible for Contracts or Subcontracts with the State of Illinois or any of its political subdivisions or municipal corporations.

38. Severability.

If any clause, phrase, provision or portion of this Contract or the application thereof, to any person or circumstance, shall be invalid or unenforceable under applicable law, such event shall not affect, impair or render invalid or unenforceable the remainder of this Contract, nor shall it affect the application of any other clause, phrase, provision or portion hereof to other persons or circumstances.

39. No Waiver of Immunities and/or Privileges.

Nothing herein shall be construed as an express and/or implied waiver of any common law and/or statutory immunities and/or privileges of Hanover Township, HTRD, the State of Illinois, IDOT, and/or any of their respective officials, officers, employees, volunteers and/or agents; such immunities and privileges are expressly reserved.

40\ Miscellaneous.

- A. This Agreement supersedes all prior agreements and understandings, both written and oral, of the parties to the subject matter hereof. This Agreement applies to and binds the successors and assigns of the Parties to this Agreement. Any amendments to this Agreement must be in writing and executed by both Parties.
- B. This Agreement may be executed in any number of counterparts, and by the HTRD and Contractor on different counterparts, each of which when executed shall be deemed an original and all of which together shall constitute one and the

same Agreement.

- C. Changes in the number, gender and grammar of terms and phrases herein when necessary to conform this Agreement to the circumstances of the parties hereto shall in all cases, be assumed as though in each case fully expressed therein.
- D. This Agreement shall be construed, governed and enforced according to the laws of the State of Illinois, and the exclusive venue for the enforcement of this Agreement and/or litigation between the parties shall be the Circuit Court of Cook County, Illinois.
- E. In construing this Agreement, section headings shall be disregarded.
- F. Time is of the essence of this Agreement and every provision contained herein.
- G. Each of the undersigned signing as an officer or agent on behalf of the respective party to this Agreement warrants that he or she holds such capacity as is specified beneath his or her name and further warrants that he or she is authorized to execute and effectuate this Agreement and that he or she does so voluntarily and in his or her official capacity.
- H. Survival of Obligations. Except as otherwise provided, any obligations and duties which by their nature extend beyond the expiration or termination of this Agreement, including, without limitation, Sections pertaining to Indemnity shall survive the expiration of this Agreement.
- I. In the event of any conflict between the terms and conditions of any of the Contract Documents, the most stringent requirements shall control.



RETURN WITH BID

Route Rohrssen Rd
County Cook
Local Agency Hanover Township
Section N/A

Time and Place of Opening of Bids

Sealed proposals for the improvement described below will be received at the office of Hanover Township Road
District, 250 South Route 59, Bartlett, IL 60103, Attn: Katy Dolan Baumer, Hanover Township
until 10:00 o'clock A M., June 3, 2013
at 10:00 o'clock A M., June 3, 2013 at the office of Hanover Township Road
District, 250 South Route 59, Bartlett, IL 60103, Attn: Katy Dolan Baumer, Hanover Township Clerk

Description of Work

Name 2013 Road Maintenance Program Length 2732 feet (0.52 miles)
Location Rohrssen Road from Golf Rd to approximately 2,732' south
Proposed Improvement Hot-Mix Asphalt Surface Removal, Hot-Mix Asphalt Patching, Hot-Mix Asphalt binder,
Hot-Mix Asphalt surface, culvert replacements, restoration and other associated improvements

Bidders Instructions

- 1. Plans and proposal forms will be available in the office of Hanover Township Road
District, 250 South Route 59, Bartlett, IL 60103, Attn: Katy Dolan Baumer, Hanover Township Clerk
2. If prequalification is required, the 2 low bidders must file within 24 hours after the letting an "Affidavit of Availability" (Form BC 57), in triplicate, showing all uncompleted contracts awarded to them and all low bids pending award for Federal, State, County, Municipal and private work. One copy shall be filed with the Awarding Authority and 2 copies with the IDOT District Office.
3. All proposals must be accompanied by a proposal guaranty as provided in BLRS Special Provision for Bidding Requirements and Conditions for Contract Proposals.
4. 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.
5. Bidders need not return the entire contract proposal when bids are submitted unless otherwise required. Portions of the proposal that must be returned include the following:
a. BLR 12210 - Contract Cover
b. BLR 12220 - Notice to Bidders
c. BLR 12221 - Contract Proposal
d. BLR 12222 - Contract Schedule of Prices
e. BLR 12223 - Signatures
f. BLR 12230 - Proposal Bid Bond (if applicable)
g. BLR 12325 - Apprenticeship or Training Program Certification (do not use for federally funded projects)
6. 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.

7. 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.
8. The bidder shall take no advantage of any error or omission in the proposal and advertised contract.
9. 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.
10. 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.

By Order of

Hanover Township Road District

(Awarding Authority)

Katy Dolan Baumer, Hanover Township Clerk

County Engineer/County Superintendent of Highways/Municipal Clerk

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

Route	<u>Rohrssen Rd</u>
County	<u>Cook</u>
Local Agency	<u>Hanover Township</u>
Section	<u>N/A</u>

1. Proposal of _____

for the improvement of the above section by the construction of _____

Hot-Mix Asphalt Surface Removal, Hot-Mix Asphalt Patching, Hot-Mix Asphalt binder,
Hot-Mix Asphalt surface, culvert replacements, restoration and other associated improvements

_____ a total distance of 2732 feet, of which a
distance of 2732 feet ,(0.52 miles) are to be improved.

2. The plans for the proposed work are those prepared by Gewalt Hamilton Associates, Inc., 850 Forest Edge Dr
Vernon Hills, IL 60061 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 20 working days ~~or by~~ _____
unless additional time is granted in accordance with the specifications.

6. A proposal guaranty in the proper amount, as specified in BLRS Special Provision for Bidding Requirements and
Conditions for contract Proposals, will be required. Bid Bonds will will not be allowed as proposal
guaranties. Accompanying this proposal is either a bid bond if allowed, on Department form BLR 12230 or a proposal
guaranty check, complying with the specifications, made payable to: Hanover Township Treasurer of
Hanover Township Road District

the amount of the check is Bid Bond (10% of total bid) (_____)

~~7. In the event that one proposal guaranty check is intended to cover two or more proposals, the amount must be equal to
the sum of the proposal guaranties, which would be required for each individual proposal. If the proposal guaranty check
is placed in another proposal, it will be found in the proposal for: Section Number _____ .~~

8. If this proposal is accepted and the undersigned fails to execute a contract and contract bond as required, it is hereby
agreed that the Bid Bond or check shall be forfeited to the Awarding Authority.

9. Each pay item should have a unit price and a total price. If no total price is shown or if there is a discrepancy between
the product of the unit price multiplied by the quantity, the unit price shall govern. If a unit price is omitted, the total price
will be divided by the quantity in order to establish a unit price.

10. A bid will be declared unacceptable if neither a unit price nor a total price is shown.

11. The undersigned firm certifies that it has not been convicted of bribery or attempting to bribe an officer or employee of
the State of Illinois, 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. The undersigned firm further certifies that it is not barred
from contracting with any unit of State or local government as a result of a violation of State laws prohibiting bid-rigging
or bid-rotating.

12. The undersigned submits herewith the schedule of prices on BLR 12222 covering the work to be performed under this
contract.



Schedule of Prices

Route	Rohrssen Rd
County	Cook
Local Agency	Hanover Township
Section	N/A

RETURN WITH BID

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

Item No.	Items	Unit	Quantity	Unit Price	Total
1	HMA Surface Removal, 3"	SY	8,569.0		
2	HMA Dwy Pvmt Removal	SY	97.0		
3	Refl Pvmt Marker Removal	EA	2.0		
4	Rem and Disp of Unsuit Mater	CY	29.0		
5	Geotech Fabric for Grnd Stabil	SY	86.0		
6	Porous Granular Embankment	CY	29.0		
7	Pipe Culvert Removal, 18"	FT	48.0		
8	Pipe Culv, RCP CLIII, TY2, 18"	FT	40.0		
9	Precast Reinf Conc FES, 18"	EA	2.0		
10	Grating for Conc FES, 18"	EA	2.0		
11	Rip Rap, RR4	SY	10.0		
12	Trench Backfill	CY	20.0		
13	Class D Patches, TY I, 6"	SY	86.0		
14	Class D Patches, TY II, 6"	SY	86.0		
15	Class D Patches, TY III, 6"	SY	258.0		
16	Class D Patches, TY IV, 6"	SY	429.0		
17	CL D "Surface" Patch, TY IV, 8"	SY	50.0		
18	Bituminous Material (Prime)	GAL	857.0		
19	Aggregate (Prime)	TN	35.0		
20	HMA Binder, IL-19, N50, 2-1/4"	TN	1,109.0		
21	HMA Surf, Mix D, N50, 1-1/2"	TN	748.0		
22	Aggregate Wedge Shld, TY B	TN	275.0		
23	Detector Loop Replacement	FT	100.0		
24	Thermo Pvmt Mark - Line, 4"	FT	10,928.0		
25	Thermo Pvmt Mark - Line, 6"	FT	189.0		
26	Thermo Pvmt Mark - Line, 24"	FT	53.0		
27	Thermo Pvmt Mark - L&S	SF	36.4		
28	Raised Refl Pvmt Markers	EA	142.0		
29	Changeable Message Sign	CM	4.0		
30	F&P Pulverized Topsoil	CY	200.0		
31	Seeding, CL 2A	SY	1,850.0		
32	Nitrogen Fertilizer Nutrient	LB	34.0		
33	Phosphorus Fertilizer Nutrient	LB	34.0		
34	Potassium Fertilizer Nutrient	LB	34.0		
35	Erosion Control Blanket	SY	1,850.0		
36	Supplemental Watering	UN	84.0		
37	Temporary Ramps	SY	20.0		
38	Traffic Control & Protection	LS	1.0		
Page Total (To be carried forward to Page)					

Route	<u>Rohrssen Rd</u>
County	<u>Cook</u>
Local Agency	<u>Hanover Township</u>
Section	<u>N/A</u>

RETURN WITH BID

(If an individual)

Signature of Bidder _____

Business Address _____

(If a partnership)

Firm Name _____

Signed By _____

Business Address _____

Insert
Names and
Addresses of
All Partners



(If a corporation)

Corporate Name _____

Signed By _____

President

Business Address _____

Insert
Names of
Officers



President _____
Secretary _____
Treasurer _____

Attest: _____
Secretary



Local Agency Proposal Bid Bond

Route Rohrssen Rd
County Cook
Local Agency Hanover Township
Section N/A

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 10% 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 therein 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 (grid)

Electronic Bid Bond ID Code

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



Illinois Department of Transportation

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

Affidavit of Availability For the Letting of _____

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

Part I. Work Under Contract

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

	1	2	3	4	Awards Pending	
Contract Number						
Contract With						
Estimated Completion Date						
Total Contract Price						Accumulated Totals
Uncompleted Dollar Value if Firm is the Prime Contractor						
Uncompleted Dollar Value if Firm is the Subcontractor						
Total Value of All Work						

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

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

						Accumulated Totals
Earthwork						
Portland Cement Concrete Paving						
HMA Plant Mix						
HMA Paving						
Clean & Seal Cracks/Joints						
Aggregate Bases & Surfaces						
Highway, R.R. and Waterway Structures						
Drainage						
Electrical						
Cover and Seal Coats						
Concrete Construction						
Landscaping						
Fencing						
Guardrail						
Painting						
Signing						
Cold Milling, Planning & Rotomilling						
Demolition						
Pavement Markings (Paint)						
Other Construction (List)						
						\$ 0.00
Totals						

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

Part III. Work Subcontracted to Others.

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

	1	2	3	4	Awards Pending
Subcontractor					
Type of Work					
Subcontract Price					
Amount Uncompleted					
Subcontractor					
Type of Work					
Subcontract Price					
Amount Uncompleted					
Subcontractor					
Type of Work					
Subcontract Price					
Amount Uncompleted					
Subcontractor					
Type of Work					
Subcontract Price					
Amount Uncompleted					
Subcontractor					
Type of Work					
Subcontract Price					
Amount Uncompleted					
Subcontractor					
Type of Work					
Subcontract Price					
Amount Uncompleted					
Total Uncompleted					

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

Subscribed and sworn to before me
 this _____ day of _____, _____ Type or Print Name _____
 Officer or Director Title

Signed _____

 Notary Public

My commission expires _____

(Notary Seal)

Company _____

Address _____

TAX COMPLIANCE AFFIDAVIT

The undersigned, being the duly appointed official of _____ (Name of Company) ("Bidder") duly sworn and under oath hereby certifies that Bidder is not delinquent in payment of any taxes to the Illinois Department of Revenue, and/or the Internal Revenue Service.

Signature

STATE OF ILLINOIS)
)
COUNTY OF _____) SS.

I, the undersigned, a notary public in and for the State and County aforesaid, hereby certify that _____ appeared before me this day in person and, being first duly sworn on oath, acknowledged that he/she is authorized to act on behalf of _____ (Company), and that he/she executed the foregoing certificate as his/her free act and deed and as the act and deed of _____ (Company).

Dated: _____, 2013

Notary

Public

**CERTIFICATION THAT BIDDER
IS NOT BARRED FROM PUBLIC CONTRACTING DUE TO
BID-RIGGING OR BID-ROTATING CONVICTIONS**

The undersigned hereby certifies that _____ (Name of Company) ("Bidder") is not barred from bidding on or entering into public contracts due to having been convicted of bid-rigging or bid-rotating under paragraphs 33E-3 or 33E-4 of the Illinois Criminal Code. The undersigned further certifies that no officers or employees of the Bidder's firm have been so convicted and that Bidder is not the successor company or a new company created by the officers or owners of one so convicted. The undersigned certifies that any such conviction occurring after the date of this certification will be reported to the Hanover Township Road District, immediately in writing, if it occurs during the bidding process or otherwise prior to entering into the Contract therewith.

Dated: _____, 2013

(Print Name of Bidder/Company)

(Signature of Authorized Officer)

(Printed Name of Signatory)

(Title of Signatory)

STATE OF ILLINOIS)
)
COUNTY OF _____)

SS.

I, the undersigned, a notary public in and for the State and County aforesaid, hereby certify that _____ appeared before me this day in person and, being first duly sworn on oath, acknowledged that he/she is authorized to act on behalf of _____ (Company), and that he/she executed the foregoing certificate as his/her free act and deed and as the act and deed of _____ (Company).

Dated: _____, 2013

Notary Public

**CERTIFICATION THAT BIDDER HAS ADOPTED
AND MAINTAINS A WRITTEN SEXUAL HARASSMENT POLICY
AND REGARDING SUBSTANCE ABUSE PREVENTION PROGRAM**

The undersigned hereby certifies that _____(Name of Company) (“Bidder”) has in full force and effect a written sexual harassment policy in accordance with the Illinois Human Rights Act (775 ILCS 5/1-101 *et seq.*), including at least the following:

- a statement on the illegality of sexual harassment;
- the definition of sexual harassment under Illinois law;
- a description of sexual harassment, utilizing examples;
- an internal complaint process, including penalties;
- the legal recourse, investigative and complaint process available through the Illinois Department of Human Rights (“Department”) and the Illinois Human Rights Commission (“Commission”);
- directions on how to contact the Department and the Commission; and,
- protection against retaliation as provided by Section 6-101 of the Act.

The undersigned further certifies that such policy shall remain in full force and effect throughout the term of the Contract.

The undersigned further certifies that it has or will have in place prior to commencement of the Project Work, a written substance abuse prevention program which meets or exceeds the requirements set forth in the Substance Abuse Prevention on Public Works Projects Acts (PA 95-0635) (the “Act”) to the extent required under said Act.

(Print Name of Bidder/Company))

(Signature of Authorized Officer)

(Printed Name of Signatory)

(Title of Signatory)

STATE OF ILLINOIS)
)
COUNTY OF _____)

SS.

I, the undersigned, a notary public in and for the State and County aforesaid, hereby certify that _____ appeared before me this day in person and, being first duly sworn on oath, acknowledged that he/she is authorized to act on behalf of _____ (Company), and that he/she executed the foregoing certificate as his/her free act and deed and as the act and deed of _____ (Company).

Dated: _____, 2013

Notary Public

CONTRACTOR OFFICE COPY OF CONTRACT SPECIFICATIONS

NOTICE

NONE OF THE FOLLOWING MATERIAL NEEDS TO BE RETURNED WITH THE BID PACKAGE UNLESS THE SPECIAL PROVISIONS REQUIRE DOCUMENTATION AND/OR OTHER INFORMATION TO BE SUBMITTED.

**DESCRIPTION OF WORK
2013 ROAD MAINTENANCE PROGRAM
HANOVER TOWNSHIP ROAD DISTRICT**

The following list of roadways will be resurfaced as part of this year's program.

Street	From	To	Length, ft (mi)	Area, sy
Rohrssen Road	Golf Rd.	±2,723' south	2,732 (0.52)	8,569
		Sub-total:	2,732 (0.52)	8,569

The above street segments will include: hot-mix asphalt surface removal, hot-mix asphalt patching, hot-mix asphalt binder, hot-mix asphalt surface, culvert replacements, restoration and other associated improvements.

The following list of roadways will require "surface finish" hot-mix asphalt pavement patching, 6" as part of this year's program.

Street	From	To
Rohrssen Rd.	Poplar Creek	Poplar Creek

INDEX
FOR
SUPPLEMENTAL SPECIFICATIONS
AND RECURRING SPECIAL PROVISIONS

Adopted January 1, 2013

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

ERRATA Standard Specifications for Road and Bridge Construction (Adopted 1-1-12) (Revised 1-1-13)

SUPPLEMENTAL SPECIFICATIONS

<u>Std. Spec. Sec.</u>		<u>Page No.</u>
105	Control of Work	1
107	Legal Regulations and Responsibility to Public	2
202	Earth and Rock Excavation	4
211	Topsoil and Compost	5
407	Hot-Mix Asphalt Pavement (Full-Depth)	6
420	Portland Cement Concrete Pavement	10
424	Portland Cement Concrete Sidewalk	12
503	Concrete Structures	13
504	Precast Concrete Structures	14
540	Box Culverts	15
603	Adjusting Frames and Grates of Drainage and Utility Structures	16
610	Shoulder Inlet with Curb	18
642	Shoulder Rumble Strips	19
643	Impact Attenuators	20
701	Work Zone Traffic Control and Protection	22
706	Impact Attenuators, Temporary	24
780	Pavement Striping	26
860	Master Controller	27
1006	Metals	28
1042	Precast Concrete Products	29
1073	Controller	30
1083	Elastomeric Bearings	31
1101	General Equipment	32
1106	Work Zone Traffic Control Devices	34

CHECK SHEET
FOR
RECURRING SPECIAL PROVISIONS

Adopted January 1, 2013

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)	35
2	<input type="checkbox"/> Subletting of Contracts (Federal-Aid Contracts) (Eff. 1-1-88) (Rev. 5-1-93)	38
3	<input type="checkbox"/> EEO (Eff. 7-21-78) (Rev. 11-18-80)	39
4	<input type="checkbox"/> Specific Equal Employment Opportunity Responsibilities Non Federal-Aid Contracts (Eff. 3-20-69) (Rev. 1-1-94)	49
5	<input type="checkbox"/> Required Provisions - State Contracts (Eff. 4-1-65) (Rev. 1-1-13)	54
6	<input type="checkbox"/> Asbestos Bearing Pad Removal (Eff. 11-1-03)	59
7	<input type="checkbox"/> Asbestos Waterproofing Membrane and Hot-Mix Asphalt Surface Removal (Eff. 6-1-89) (Rev. 1-1-09)	60
8	<input type="checkbox"/> Haul Road Stream Crossings, Other Temporary Stream Crossings, and In-Stream Work Pads (Eff. 1-2-92) (Rev. 1-1-98)	61
9	<input type="checkbox"/> Construction Layout Stakes Except for Bridges (Eff. 1-1-99) (Rev. 1-1-07)	62
10	<input type="checkbox"/> Construction Layout Stakes (Eff. 5-1-93) (Rev. 1-1-07)	65
11	<input type="checkbox"/> Use of Geotextile Fabric for Railroad Crossing (Eff. 1-1-95) (Rev. 1-1-07)	68
12	<input type="checkbox"/> Subsealing of Concrete Pavements (Eff. 11-1-84) (Rev. 1-1-07)	70
13	<input type="checkbox"/> Hot-Mix Asphalt Surface Correction (Eff. 11-1-87) (Rev. 1-1-09)	74
14	<input type="checkbox"/> Pavement and Shoulder Resurfacing (Eff. 2-1-00) (Rev. 1-1-09)	76
15	<input type="checkbox"/> PCC Partial Depth Hot-Mix Asphalt Patching (Eff. 1-1-98) (Rev. 1-1-07)	77
16	<input type="checkbox"/> Patching with Hot-Mix Asphalt Overlay Removal (Eff. 10-1-95) (Rev. 1-1-07)	79
17	<input type="checkbox"/> Polymer Concrete (Eff. 8-1-95) (Rev. 1-1-08)	80
18	<input type="checkbox"/> PVC Pipeliner (Eff. 4-1-04) (Rev. 1-1-07)	82
19	<input type="checkbox"/> Pipe Underdrains (Eff. 9-9-87) (Rev. 1-1-07)	83
20	<input type="checkbox"/> Guardrail and Barrier Wall Delineation (Eff. 12-15-93) (Rev. 1-1-12)	84
21	<input type="checkbox"/> Bicycle Racks (Eff. 4-1-94) (Rev. 1-1-12)	88
22	<input type="checkbox"/> Temporary Modular Glare Screen System (Eff. 1-1-00) (Rev. 1-1-07)	90
23	<input type="checkbox"/> Temporary Portable Bridge Traffic Signals (Eff. 8-1-03) (Rev. 1-1-07)	92
24	<input type="checkbox"/> Work Zone Public Information Signs (Eff. 9-1-02) (Rev. 1-1-07)	94
25	<input type="checkbox"/> Night Time Inspection of Roadway Lighting (Eff. 5-1-96)	95
26	<input type="checkbox"/> English Substitution of Metric Bolts (Eff. 7-1-96)	96
27	<input type="checkbox"/> English Substitution of Metric Reinforcement Bars (Eff. 4-1-96) (Rev. 1-1-03)	97
28	<input type="checkbox"/> Calcium Chloride Accelerator for Portland Cement Concrete (Eff. 1-1-13)	98
29	<input type="checkbox"/> Portland Cement Concrete Inlay or Overlay for Pavements (Eff. 11-1-08) (Rev. 1-1-13)	99
30	<input type="checkbox"/> Quality Control of Concrete Mixtures at the Plant (Eff. 8-1-00) (Rev. 1-1-11)	102
31	<input type="checkbox"/> Quality Control/Quality Assurance of Concrete Mixtures (Eff. 4-1-92) (Rev. 1-1-11)	110
32	<input type="checkbox"/> Digital Terrain Modeling for Earthwork Calculations (Eff. 4-1-07).....	122

CHECK SHEET
FOR
LOCAL ROADS AND STREETS RECURRING SPECIAL PROVISIONS

Adopted January 1, 2013

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

LOCAL ROADS AND STREETS RECURRING SPECIAL PROVISIONS

<u>CHECK SHEET #</u>	<u>PAGE NO.</u>
LRS 1	125
LRS 2	126
LRS 3	127
LRS 4	128
LRS 5	129
LRS 6	130
LRS 7	136
LRS 8	142
LRS 9	143
LRS 10	144
LRS 11	145
LRS 12	147
LRS 13	149
LRS 14	150
LRS 15	153
LRS 16	154
LRS 17	155
LRS 18	156

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 2013 Road Maintenance Program _____, and in case of conflict with any part, or parts, of said Specifications, the said Special Provisions shall take precedence and shall govern.

GENERAL CONDITIONS and SPECIAL PROVISIONS INDEX
2013 ROAD MAINTENANCE PROGRAM
HANOVER TOWNSHIP ROAD DISTRICT

GENERAL CONDITIONS

1. JULIE NOTIFICATION
2. HANOVER TOWNSHIP NOTIFICATION
3. PREQUALIFICATION OF BIDDERS
4. AWARD OR REJECTION
5. PERMITS AND LICENSES
6. CONSTRUCTION SAFETY AND HEALTH STANDARDS
7. WORKING HOURS AND CONSTRUCTION NOISE
8. COARSE AND FINE AGGREGATES
9. COMPLETION DATE
10. CLEAN CONSTRUCTION AND DEMOLITION DEBRIS (CCDD) MATERIAL DISPOSAL
11. CLEAN CONSTRUCTION AND DEMOLITION DEBRIS (CCDD) **NON-COMPLIANT** MATERIAL DISPOSAL
12. SCOPE OF WORK
13. CONSTRUCTION LAYOUT
14. RESTORATION AND PERIOD OF ESTABLISHMENT

SPECIAL PROVISIONS

1. HMA DRIVEWAY PAVEMENT REMOVAL
2. CLASS D "SURFACE" PATCHES, TY IV, 8"
3. DETECTOR LOOP REPLACEMENT
4. TRAFFIC CONTROL & PROTECTION
 - A. 701006
 - B. 701301
 - C. 701311
 - D. 701501
 - E. 701901

IDOT DISTRICT 1 – SPECIAL PROVISIONS

1. RECLAIMED ASPHALT PAVEMENT AND SHINGLES (DIST 1)
2. FINE AGGREGATE FOR HOT-MIX ASPHALT (HMA) (DIST 1)
3. COARSE AGGREGATE FOR HOT-MIX ASPHALT (HMA) (DIST 1)

LOCAL ROADS – SPECIAL PROVISIONS

1. LR 105 – COOPERATION WITH UTILITIES
2. LR 107-4 – INSURANCE
3. LR 107-5 - SUBSTANCE ABUSE PREVENTION PROGRAM
4. LR 107-6 – SELECTION OF LABOR
5. LR 107-7 – WAGES OF EMPLOYEES ON PUBLIC WORKS

**GENERAL CONDITIONS INDEX
2013 ROAD MAINTENANCE PROGRAM
HANOVER TOWNSHIP ROAD DISTRICT**

GENERAL CONDITIONS

1. JULIE NOTIFICATION

The Contractor is to call J.U.L.I.E. (1-800-892-0123 or 811), a minimum of forty-eight (48) hours in advance of work being done in the area.

The Contractor shall contact the owner of all utilities and obtain locations of all utilities within limits of the proposed construction.

The Contractor will be required to cooperate with all utility companies and municipal agencies involved in connection with the removal, temporary relocation, reconstruction or abandonment by these agencies of any and all services.

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

2. HANOVER TOWNSHIP NOTIFICATION

The Contractor is to notify Hanover Township (Sam Santangelo, 630-837-0960) and the Project Engineer (Steve Berez, P.E., 847-478-9700) a minimum of forty-eight (48) hours in advance of beginning work

3. PREQUALIFICATION OF BIDDERS

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

4. AWARD OR REJECTION

It is the intention of the Owner (Hanover Township) to achieve construction of the proposed improvements at the lowest possible cost with the estimated funds available. The Contract, if awarded, will be awarded to the Bidder who submits the lowest responsive and responsible Bid complying with the Contract Documents and in accordance with Section 102 of the Standard Specifications.

The Owner reserves the right to reject any or all Bids, accept or reject any of the alternatives or to waive any informality or technicality in any Bid deemed in the best interest of the Owner. No Bidder may withdraw their Bid for a period of 60 days after the date of the opening. All bidders must submit a Bid for all items and alternatives listed to have a responsive bid. Failure to complete all items will be a basis for rejecting the bid.

5. PERMITS AND LICENSES

The Contractor shall procure all permits and licenses, pay all charges and fees, and give all notices necessary and incident to the due and lawful prosecution of the work in accordance with Article 107.04 of the Standard Specifications.

6. CONSTRUCTION SAFETY AND HEALTH STANDARDS

The Contractor shall have on-site, at all times, appropriately maintained sanitary facilities in accordance with Article 107.08 of the Standard Specifications.

The Contractor shall be solely responsible for job site safety, as determined by OSHA and Federal Construction Safety and Health Standards in accordance with Article 107.09 of the Standard Specifications.

This work will not be paid for separately but shall be considered, as incidental to the Contract and no extra compensation will be allowed.

7. WORKING HOURS AND CONSTRUCTION NOISE

Construction operations shall be confined to the hours between 7:00 am to 7:00 pm Monday thru Friday. No work under this Contract will be permitted on Saturdays, Sundays or Holidays without the express permission of the Township. Holidays shall be defined in accordance with Article 107.09 of the Standard Specifications. These time limits apply to the start-up of construction equipment including idling. To minimize the effect of construction noise on the area surrounding the improvement, the Contractor shall comply with the following requirements: all engines and engine driven equipment used for hauling or construction shall be equipped with an adequate muffler in constant operation and properly maintained to prevent excessive or unusual noise.

8. COARSE AND FINE AGGREGATES

No recycled concrete, recycled asphalt pavement materials or similar recycled materials will be allowed without prior written approval of the Engineer.

All aggregate used for this project shall be crushed virgin aggregate of gradation CA6 unless otherwise specified or approved by the Engineer and shall meet the requirements of Section 1003 and 1004 of the Standard Specifications.

9. COMPLETION DATE

All work on this Contract, including restoration and punch list items, shall be completed within 20 Working Days. In case of failure to complete the Contract work within this period the provisions of Article 108.09 of the Standard Specifications shall apply.

10. CLEAN CONSTRUCTION AND DEMOLITION DEBRIS (CCDD) MATERIAL DISPOSAL

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

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

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

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

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

11. CLEAN CONSTRUCTION AND DEMOLITION DEBRIS (CCDD) **NON-COMPLIANT** MATERIAL DISPOSAL

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

A quantity has been established in the bid proposal to address areas of possible **non-compliant** material that may be encountered during excavation. If such materials are found during construction, the Contractor shall notify the owner immediately. Suspect materials are to be set aside on non-permeable tarps/plastic/etc. and covered until they may be assessed. If after assessment the material is found to be non-compliant, it shall be loaded onto trucks for proper landfill disposal off-site. Disposal documentation will be provided by the contractor to the owner prior to any applications for payment being requested.

The Contractor will provide a third party testing company to sample and analyze discovered suspect non-compliant material. After receipt of the analysis report, the owner will determine the probable limits of contamination and confirm with the Contractor in order to establish a material quantity. Work to include all labor, equipment, sampling, analysis, materials, trucking, re-handling, etc., as required to stockpile, test and dispose of material, whether compliant or non-compliant. Only material determined to be non-compliant shall be paid for at the provided unit price. Re-handling and disposal of material determined to be compliant will be incidental to construction.

12. SCOPE OF WORK

The provisions of Article 104.02 of the Standard Specifications are hereby amended as follows: **“Hanover Township expressly reserves the right to remove from the project any improvements or portions thereof currently included in the “2013 Road Maintenance Project” project. Such reduction, if any, shall be made in writing by the Township prior to execution of the Contract Documents. Any reduction in the scope of**

work required by the Township prior to execution of the Contract Documents shall not result in an adjustment to the contract or to the unit prices originally bid.”

13. CONSTRUCTION LAYOUT

The Owner (Hanover Township) via their Engineer (Gewalt Hamilton Associates, Inc.) shall establish the necessary grades and alignments from the established control prior to construction under these Contract Documents and they shall be carefully preserved by the Contractor.

Necessary replacement staking or additional staking due to negligence by the Contractor shall be back-charged to the Contractor on an hourly basis at the going rates for costs incurred by the Owner.

14. RESTORATION AND PERIOD OF ESTABLISHMENT

The work for this pay item shall include all labor, materials, and equipment necessary to furnish and place pulverized topsoil to an average depth of 4”, Class 2A seed, fertilizer and North American Green DS75 erosion control blanket, or equal. Work may include preparing the existing ground surface, placing topsoil and fine grading the topsoil to match existing grades in preparation for seed. The topsoil shall be feathered to match the existing terrain and roadway overlay. This item is intended to blend any changes in pavement, shoulders and/or ditches to existing contours in accordance with Sections 211, 250, 251 and 252 of the Standard Specifications or as directed by the Engineer.

Fertilizer shall be applied in accordance with Article 250.04 of the Standard Specifications and shall be included in the unit price of Seeding, CL 2A.

Supplemental watering will be required in accordance with articles 252.08, 252.09 and 252.12 of the Standard Specifications. The first watering shall begin within 24-hours of the final staking of the erosion control blanket. The recommended rate of watering is 3 gallons per square yard every other day until final acceptance by the Engineer, however it is the sole responsibility of the Contractor to make necessary adjustments as to not under or over water.

Areas seeded annually must undergo a 21-day period of establishment beginning on the last day that seed is sowed or the final staking of the erosion control blanket. During this period, the Contractor shall be responsible for, at no additional cost to the Township, watering, removing weeds and maintaining the seeded areas, and repairing any damage to the seeded areas due to, but not limited to errant vehicles, severe weather or other causes. At the end of the period of establishment, the pay quantity for seeded areas, which result in weeds, bare areas, or are otherwise unacceptable, shall be deducted from the Contract quantities. Terms of acceptance shall be made by the Engineer and shall be final. No payments will be made to the Contractor until the end of the period of establishment. Should the seed not germinate because of prevailing cool weather, the period of establishment and the annual completion date may be extended as determined by the Engineer.

Planting times shall be April 1 to June 15 and August 1 to November 1 in accordance with Article 250.07 of the Standard Specifications. The Township, at its sole discretion, may postpone seeding operations if deemed necessary. In such an event, the completion date shall be extended accordingly.

This work will be measured and paid for per the units and their unit bid prices as listed in the Schedule of Prices.

**SPECIAL PROVISIONS INDEX
2013 ROAD MAINTENANCE PROGRAM
HANOVER TOWNSHIP ROAD DISTRICT**

SPECIAL PROVISIONS

The following Special Provisions supplement the "Standard Specifications for the Road and Bridge Construction", adopted January 1, 2012, the "Supplemental Specifications and Recurring Special Provisions", adopted January 1, 2013 (as indicated on the check sheet included herein), and the latest edition of the "Illinois Manual on Uniform Traffic Control Devices for Streets and Highways" in effect on the date of invitation for bids. These special provisions included herein apply to and govern the proposed improvement designated as the "2013 Road Maintenance Program" project and in case of conflict with any part or parts of said specifications; said special provisions shall take precedent and shall govern.

1. HMA DRIVEWAY PAVEMENT REMOVAL

Description: Work for this item shall include removal and disposal of existing asphalt driveway pavement.

Material: Replacement HMA material (binder and surface) will be paid separately under their respective Contract pay items and shall match the depths as shown on the typical cross section(s).

Supplemental aggregate shall meet the requirements of Course Aggregate in the General Provisions and will be considered incidental to this pay item.

General: This work shall consist of the complete removal and disposal of the existing asphalt driveway pavement, aggregate subbase and/or subgrade to a minimum depth of 3" as marked by the Engineer in accordance with Section 440 of the Standard Specifications.

The existing HMA driveway pavement shall be saw cut as marked by the Engineer prior to the placement of the final surface course.

Supplemental aggregate required for grade adjustment for depths greater than 3" may be added in lieu of HMA but will be considered incidental to this pay item.

Temporary ramps will be required for drop offs greater than 1½" in accordance with Article 406.08 of the Standard Specifications and will be considered incidental to this pay item.

Method of Measurement: This work will be measured for payment of the area computed in square yards.

Basis of Payment: This work will be paid for at the contract unit price per SQUARE YARD (SY) for HMA DRIVEWAY PAVEMENT REMOVAL and shall include all equipment, materials and labor required to complete this pay item.

2. CLASS D "SURFACE" PATCHES, TY IV, 8"

Description: Work for this item shall include complete removal and replacement of the existing asphalt pavement to a minimum depth of 8" on Rohrssen Road at Poplar Creek. These patches shall be considered "finish patches" and the final HMA course shall be of surface quality and workmanship.

Material: Replacement materials shall meet the requirements in accordance with Articles 406.02 and 442.02 of the Standard Specifications.

HMA Binder Course shall be IL-19.0, N50 and HMA Surface Course shall be Mix D, N50. The final surface course shall be a minimum depth of 1½”.

Supplemental aggregate shall meet the requirements of Course Aggregate in the General Provisions and will be considered incidental to this pay item.

General: This work shall consist of the complete removal, disposal and replacement the existing HMA pavement, aggregate subbase and/or the subgrade to a minimum depth of 8” where marked by the Engineer in accordance with section 442 of the Standard Specifications.

These patches shall be considered “finish patches” and the final HMA surface course shall be of surface quality and workmanship meeting the requirements of HMA Surface Course, Mix D, N50 at a minimum depth of 1½”.

The existing HMA pavement shall be sawcut as marked by the Engineer prior to the removal and, if necessary prior to the final placement of the surface course as determined by the Engineer. The costs to sawcut the existing pavement shall be incidental to this pay item.

Supplemental aggregate required for grade adjustment for depths greater than 8” may be added in lieu of asphalt but will be considered incidental to this pay item.

Method of Measurement: This work will be measured for payment in place and the area computed in square yards.

For depths greater or less than 8” the area will be adjusted and paid for in accordance with Article 442.10 of the Standard Specifications.

Basis of Payment: This work will be paid for at the contract unit price per SQUARE YARD (SY) for CLASS D “SURFACE” PATCHES, TY IV, 8” and shall include all equipment, materials and labor required to complete this pay item.

3. DETECTOR LOOP REPLACEMENT

This work shall consist of replacing existing detector loops which are destroyed during grinding, resurfacing, or patching operations.

If damage to the detector loop is unavoidable, replacement of the existing detection system will be necessary. This work shall be completed by an approved Electrical Contractor as directed by the Engineer.

Replacement of the loops shall be accomplished in the following manner: The Engineer shall mark the location of the replacement loops. The Traffic Signal Maintenance and Operations Engineer shall be called to approve loop locations prior to the cutting of the pavement. The Contractor may reuse the existing conduit (duct) located between the existing handhole and the pavement if it hasn’t been damaged. All burrs shall be removed from the edges of the existing conduit which may cause damage to the new detector loop during installation. If the existing conduit is damaged beyond repair, or if it cannot be located, or if additional conduits are required to provide one lead-in duct for each proposed loop; the Contractor shall be required to drill through the existing pavement into the appropriate handhole, and install 25 mm (1”) unit duct conduit. This work and the required materials shall not be paid for separately but shall be included in the pay item Detector Loop Replacement. Upon establishment of the duct, the loop may be cut, installed, sealed and spliced to the twisted-shielded controller cable in the handhole.

Detector loop measurements shall include the saw-cut and the length of the loop lead-in leading to the edge of pavement. Unit duct, splicing, trench and backfill, and drilling of pavement or handholes shall be incidental to detector loop quantities.

All loops installed in new asphalt pavement shall be installed in the binder course and not in the surface course. The edge of pavement or the curb shall be cut with a 6.3 mm (1/4") deep x 100 mm (4") saw-cut to mark location of each loop lead-in.

A minimum of seven (7) working days prior to the Contractor cutting loops, the Contractor shall have the proposed loop locations marked and contact the Traffic Signal Maintenance and Operations Engineer (847)705-4424 to inspect and approve the layout.

Loop detectors shall be installed according to the requirements of the "District 1 Standard Traffic Signal Design Details." Saw-cuts from the loop to the edge of pavement shall be made perpendicular to the edge of pavement when possible in order to minimize the length of the saw-cut unless directed otherwise by the Engineer or as shown on the plan.

The detector loop cable insulation shall be labeled with the cable specifications.

Each loop detector lead-in wire shall be labeled in the handhole using a Panduit 250W175C water proof tag or approved equal secured to each wire with nylon ties. The lead-in wire, including all necessary connections for proper operation, from the edge of pavement to the handhole, shall be incidental to the price of the detector loop.

Loop sealant shall be a two-component thixotropic chemically cured polyurethane either Chemque Q-Seal 295, Percol Elastic Cement A/C Grade or an approved equal. The sealant shall be installed 3 mm (1/8") below the pavement surface, if installed above the surface the overlap shall be removed immediately.

Round loop(s) 1.8 m (six foot) diameter may be substituted for 1.8 m (six foot) by 1.8 m (six foot) square loop(s) and shall be paid for as 7.2 m (24 feet) of detector loop.

Resistance to ground shall be a minimum of 100 megohms under any conditions of weather or moisture.

Heat shrink splices shall be used according to the "District 1 Standard Traffic Signal Design Details."

Drilling handholes, sawing the pavement, furnishing and installing unit-duct to the appropriate handhole, cable splicing to provide a fully operable detector loop, testing and all trench and backfill shall be included in this item.

Detector loop replacement shall be measured along the sawed slot in the pavement containing the loop and lead-in, rather than the actual length of the wire in the slot.

Basis of Payment. Detector Loop Replacement shall be paid for at the contract unit price per foot (meter) of DETECTOR LOOP REPLACEMENT.

4. TRAFFIC CONTROL & PROTECTION

Description: This work shall consist of the furnishing, installation, maintenance, relocation, and removal of work zone traffic control and protection per the approved plan and in accordance with Section 701 of the Standard Specifications.

Material: The materials shall be in accordance with Article 701.02 of the Standard Specifications.

General: This work shall include all costs and work efforts required to provide sufficient traffic control on all

streets during construction operations. This should include, but is not limited to providing certified flaggers, Type III barricades at ends of the construction zones, barricades and/or fencing as necessary to ensure a safe work area and to protect all open trenches, detour or road closed ahead signs as needed to adequately inform the motoring public and/or pedestrians of all road closures, and all traffic control required by the MUTCD and other Local, State and Federal agencies.

The Contractor shall pay special attention to Articles 107.09 and 107.14 and Sections 701 and 702 of the Standard Specifications.

All roads shall be kept open to traffic at all times. One lane of traffic must remain open at all times for residents, deliveries and emergency response vehicles.

This work shall also include traffic control as required by other local agencies including but not limited to IDOT and CCDOT along all their respective right-of-ways and roadways. All travel lane closures on non-local routes as mentioned shall be between the hours of 9:00 am and 3:00 pm only. Additional compensation will not be considered for payment due to these limited work hours but shall be incidental to the Contract.

This work shall also include all bonding and permit costs that may be required by IDOT, CCDOT or any other agency not listed. The bond amounts have not yet been set and the Contractor will be responsible for posting all required bond(s). The cost of bonding shall be included with the Contract pay items.

Plans include some general IDOT and/or CCDOT details and general traffic control measures including Standards 701006, 701301, 701311, 701501 and 701901. The Contractor is responsible for meeting all Local, IDOT, CCDOT and/or MUTCD requirements for traffic control throughout the duration of the project.

Method of Measurement: This work will be measured for payment in lump sum.

Basis of Payment: This work will be paid for at the contract unit price for LUMP SUM (LS) for TRAFFIC CONTROL & PROTECTION and shall include all equipment, materials and labor required to complete this pay item.

RECLAIMED ASPHALT PAVEMENT AND SHINGLES (D-1)

Effective: January 1, 2012

Revise Section 1031 of the Standard Specifications to read:

“SECTION 1031. RECLAIMED ASPHALT PAVEMENT AND SHINGLES

1031.01 Description. RAP is reclaimed asphalt pavement resulting from cold milling and crushing of 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.

RAS is reclaimed asphalt shingles resulting from the processing and grinding of either preconsumer or post consumer shingles.

RAS shall be a clean and uniform material with a maximum of 0.5 percent unacceptable materials, as defined in Bureau of Materials and Physical Research Policy (BMPR) Memorandum *Reclaimed Asphalt Shingle (RAS) Sources*, by weight of RAS. All RAS used shall come from a BMPR approved processing facility.

RAS shall meet either Type 1 or Type 2 requirements as specified herein.

- (a) Type 1. Type 1 RAS shall be processed, preconsumer asphalt shingles salvaged from the manufacture of residential asphalt roofing shingles.
- (b) 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. The Contractor shall construct individual, sealed RAP or RAS stockpiles meeting one of the following definitions. No additional RAP or RAS shall be added to the pile after the pile has been sealed. Stockpiles shall be sufficiently separated to prevent intermingling at the base. All stockpiles (including unprocessed RAP and Processed FRAP) shall be identified by signs indicating the type as listed below (i.e. “crushed natural aggregate, ACBF and steel slag, crystalline structure or Type 2 RAS”, etc...).

- (a) Fractionated RAP (FRAP). FRAP shall consist of RAP from Class I, Superpave (High ESAL), HMA (High 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 (4.75mm) and ½ in. (12.5mm) 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 RAP will be used in.

- (b) 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.
- (c) Conglomerate. Conglomerate RAP stockpiles shall consist of RAP from Class I, Superpave (High ESAL), HMA (High 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.
- (d) 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 processed (FRAP DQ) 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.
- (e) Non-Quality. RAP stockpiles that do not meet the requirements of the stockpile categories listed above shall be classified as "Non-Quality".

RAP/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.

Type 1 and Type 2 RAS shall be stockpiled separately and shall not be intermingled. 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 shall be 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 3 years.

1031.03 Testing. When used in HMA, the RAS/RAP/FRAP shall be sampled and tested either during processing or after stockpiling.

(a) RAS shall be sampled and tested as follows:

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 ton (900 metric ton) thereafter. A minimum of five tests are required for stockpiles less than 1000 ton (900 metric ton). Once a ≤ 1000 ton, five-test stockpile has been established it shall be sealed. Additional incoming RAS shall be stockpiled 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.

All of the test results, with the exception of percent unacceptable materials, shall be compiled and averaged for asphalt binder content, and gradation. Individual test results, when compared to the averages, will be accepted if within the tolerances listed below.

Parameter	RAS
No. 8 (2.36 mm)	$\pm 5 \%$
No. 16 (1.18 mm)	$\pm 5 \%$
No. 30 (600 μm)	$\pm 4\%$
No. 200 (75 μm)	$\pm 2.0 \%$
Asphalt Binder Content	$\pm 1.5 \%$

(b)RAP/FRAP shall be sampled and tested as follows:

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).

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

All of the RAP/FRAP extraction results shall be compiled and averaged for asphalt binder content and gradation and, when applicable (for slag) G_{mm} . Individual extraction test results, when compared to the averages, will be accepted if within the tolerances listed below.

Parameter	RAP or FRAP	Conglomerate "D" Quality RAP
1 in. (25 mm)		$\pm 5 \%$
1/2 in. (12.5 mm)	$\pm 8 \%$	$\pm 15 \%$
No. 4 (4.75 mm)	$\pm 6 \%$	$\pm 13 \%$
No. 8 (2.36 mm)	$\pm 5 \%$	
No. 16 (1.18 mm)		$\pm 15 \%$
No. 30 (600 μm)	$\pm 5 \%$	
No. 200 (75 μm)	$\pm 2.0 \%$	$\pm 4.0 \%$
Asphalt Binder	$\pm 0.4 \%$ ^{1/}	$\pm 0.5 \%$
G_{mm}	± 0.03 ^{2/}	

1/ The tolerance for FRAP shall be $\pm 0.3 \%$

2/ for slag and steel slag

Before extraction, each field sample whether, RAS, RAP or 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.

If more than 20 percent of the individual sieves are out of the gradation tolerances, or if more than 20 percent of the asphalt binder content test results fall outside the appropriate tolerances, the RAS, RAP or FRAP shall not be used in HMA unless the RAS, RAP or FRAP representing the failing tests is removed from the stockpile. All test data and acceptance ranges shall be sent to the District for evaluation.

With the approval of the Engineer, when testing for RAP or FRAP, 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 (RAP)".

1031.04 Quality Designation of Aggregate in RAP/FRAP.

- (a) The aggregate quality of the RAP, Fractionated RAP, Restricted FRAP, Conglomerate, and conglomerate "D" quality stockpiles shall be set by the lowest quality of coarse aggregate in the stockpile and are designated as follows:

- (1) RAP from Class I, Superpave (High ESAL)/HMA (High ESAL), or HMA (Low ESAL) IL-9.5L surface mixtures are designated as containing Class B quality coarse aggregate.
- (2) RAP from Superpave (Low ESAL)/HMA (Low ESAL) IL-19.0L binder mixture is designated as Class D quality coarse aggregate.
- (3) RAP from Class I, Superpave (High ESAL), or 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) The aggregate quality of FRAP shall be determined as follows.

- (1) 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 according to note (2) herein:
- (2) Fractionated RAP stockpiles containing plus #4 (4.75 mm) sieve coarse aggregate shall have a maximum tonnage of 5000 tons (4500 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 RAP shall not be used in any HMA mixtures that require a minimum of "B" quality aggregate or better, until the coarse aggregate fraction has been determined to be acceptable thru a MicroDeval Testing.

1031.05 Use of RAS, RAP or FRAP in HMA. The use of RAS, RAP or FRAP shall be a Contractor's option when constructing HMA in all contracts.

The use of RAS shall be as follows:

Type 1 or Type 2 RAS may be used alone or in conjunction with, Fractionated Reclaimed Asphalt Pavement (FRAP) or Reclaimed Asphalt Pavement (RAP), in all HMA mixtures up to a maximum of 5.0 percent by weight of total mix.

Reclaimed asphalt shingles (RAS) meeting Type 1 or Type 2 requirements will be permitted in all HMA mixtures for overlay applications. RAS will also be permitted in all Low ESAL full depth

pavement and ALL other Mixtures (Stabilized Subbase and shoulder HMA). RAS shall not be used in full depth HMA High ESAL main line pavement.

The use of RAP/FRAP shall be as follows:

- (a) Coarse Aggregate Size (after extraction), The coarse aggregate in all RAP or FRAP shall be equal to or less than the maximum size requirement for the HMA mixture to be produced.
- (b) Steel Slag Stockpiles. RAP 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) surface mixtures only.
- (c) Use in HMA Surface Mixtures (High and Low ESAL). RAP/FRAP and Restricted FRAP stockpiles for use in HMA surface mixtures (High and Low ESAL) shall in which the coarse aggregate is Class B quality or better. RAP/FRAP shall be considered equivalent to Limestone for frictional considerations unless produced/screened to minus 3/8 inch.
- (d) Use in HMA Binder Mixtures (High and Low ESAL), HMA Base Course, and HMA Base Course Widening. RAP/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.
- (e) Use in Shoulders and Subbase. RAP/FRAP stockpiles for use in HMA shoulders and stabilized subbase (HMA) shall RAP, Restricted FRAP, Conglomerate, or Conglomerate DQ.

When the Contractor chooses the RAP option, the percentage of virgin asphalt binder replaced by the asphalt binder from the RAP shall not exceed the percentages indicated in the table below for a given N Design:

Max Asphalt Binder Replacement RAP Only
Table 1

HMA Mixtures ^{1/, 3/}	Maximum % Asphalt Binder replacement (ABR)			
	Ndesign	Binder/Leveling Binder	Surface	Polymer Modified
30L		25	15	10
50		25	15	10
70		15	10	10
90		10	10	10
105		10	10	10

- 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 asphalt binder replacement exceeds 15 percent, the high and low virgin asphalt binder grades shall each be reduced by one grade (i.e. 25 percent binder replacement would require a virgin asphalt binder grade of PG64-22 to be reduced to a PG58-28).

When the Contractor chooses either the RAS or FRAP option, the percent binder replacement shall not exceed the amounts indicated in the tables below for a given N Design.

Max Asphalt Binder Replacement RAS or FRAP
Table 2

HMA Mixtures ^{1/, 2/}	Level 1 - Maximum % ABR			
	Ndesign	Binder/Leveling Binder	Surface	Polymer ^{3/, 4/} Modified
30L		35	30	15
50		30	25	15
70		30	20	15
90		20	15	15
105		20	15	15

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 asphalt 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 will require a virgin asphalt binder grade of PG64-22 to be reduced to a PG58-28).

3/ For SMA, when the FRAP option is used, the maximum ABR is 15 percent. When the RAS option is used, the maximum ABR is 20 percent. When the asphalt binder replacement in SMA exceeds 10 percent, the high and low virgin asphalt binder grade shall each be reduced by one grade (i.e. 15 percent asphalt binder replacement would require a virgin asphalt binder grade of PG76-22 to be reduced to a PG70-28).

4/ For IL 4.75 mix, when the FRAP option is used, the maximum ABR is 15 percent. When the RAS option is used, the maximum ABR is 20 percent. When the RAS option is used, a maximum of 5 percent RAS by weight of the mix, shall be permitted. When the ABR in the IL-4.75 exceeds 15 percent, the high and low virgin asphalt binder grade shall each be

reduced by one grade (i.e. 16 percent asphalt binder replacement would require a virgin asphalt binder grade of PG76-22 to be reduced to a PG70-28).

When the Contractor chooses the RAS with FRAP combination, the percent asphalt binder replacement shall split equally between the RAS and the FRAP, and the total replacement shall not exceed the amounts indicated in the tables below for a given N Design.

Max Asphalt Binder Replacement RAS and FRAP Combination
Table 3

HMA Mixtures ^{1/, 2/}	Level 2 - Maximum % ABR		
Ndesign	Binder/Leveling Binder	Surface	Polymer Modified ^{3/, 4/}
30L	40	40	20
50	40	30	20
70	40	30	20
90	40	30	20
105	40	30	20

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 will require a virgin asphalt binder grade of PG64-22 to be reduced to a PG58-28).

3/ For SMA, 20 percent ABR from RAS maybe combined with a maximum of 10 percent ABR from FRAP. When the asphalt binder replacement in SMA exceeds 10 percent, the high and low virgin asphalt binder grade shall each be reduced by one grade (i.e. 15 percent asphalt binder replacement would require a virgin asphalt binder grade of PG76-22 to be reduced to a PG70-28).

4/ For IL 4.75, a 20 percent ABR from RAS maybe combined with a maximum of 20 percent ABR from FRAP. When the asphalt binder replacement in the IL-4.75 exceeds 15 percent, the high and low virgin asphalt binder grade shall each be reduced by one grade (i.e. 16 percent asphalt binder replacement would require a virgin asphalt binder grade of PG76-22 to be reduced to a PG70-28).

1031.06 HMA Mix Designs. All HMA mixtures will be required to be tested, prior to submittal for Department verification, according to Illinois Modified AASHTO T324 (Hamburg Wheel) and shall meet the following requirements:

Asphalt Binder Grade	# Repetitions	Max Rut Depth (mm)
PG76-XX	20,000	12.5
PG70-XX	20,000	12.5
PG64-XX	10,000	12.5
PG58-XX	10,000	12.5

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

1031.07 HMA Production. All HMA mixtures shall be sampled within the first 500 tons on the first day of production or during start up, with a split reserved for the Department. The mix sample shall be tested according to Illinois Modified AASHTO T324 and shall meet the requirements specified herein. The production of such mixture, shall not exceed 1,500 tons or one days production, which ever comes first, until the testing is completed and the mixture is found to be in conformance. The requirement to cease mix production may be waived if the plant produced mixture is demonstrated prior to start of mix production for the contract.

To remove or reduce agglomerated material, a scalping screen, gator, crushing unit, or comparable sizing device approved by the Engineer shall be used in the RAS, RAP 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 the RAS, RAP and FRAP control tolerances or QC/QA test results require corrective action, the Contractor shall cease production of the mixture containing RAs, RAP or FRAP and either switch to the virgin aggregate design or submit a new RAS, RAP or FRAP design.

HMA plants utilizing RAS, RAP and FRAP shall be capable of automatically recording and printing the following information.

(a) Dryer Drum Plants.

- (1) Date, month, year, and time to the nearest minute for each print.
- (2) HMA mix number assigned by the Department.
- (3) Accumulated weight of dry aggregate (combined or individual) in tons (metric tons) to the nearest 0.1 ton (0.1 metric ton).

- (4) Accumulated dry weight of RAS, RAP and FRAP in tons (metric tons) to the nearest 0.1 ton (0.1 metric ton).
- (5) Accumulated mineral filler in revolutions, tons (metric tons), etc. to the nearest 0.1 unit.
- (6) Accumulated asphalt binder in gallons (liters), tons (metric tons), etc. to the nearest 0.1 unit.
- (7) Residual asphalt binder in the RAS, RAP and FRAP material as a percent of the total mix to the nearest 0.1 percent.
- (8) When producing mixtures with FRAP and/or RAS, a positive dust control system shall be utilized.
- (9) Accumulated mixture tonnage.
- (10) Dust removed (accumulated to the nearest 0.1ton)
- (11) Aggregate RAS, RAP and FRAP moisture compensators in percent as set on the control panel. (Required when accumulated or individual aggregate and RAS, RAP FRAP are printed in wet condition.)

(b) Batch Plants.

- (1) Date, month, year, and time to the nearest minute for each print.
- (2) HMA mix number assigned by the Department.
- (3) Individual virgin aggregate hot bin batch weights to the nearest pound (kilogram).
- (4) Mineral filler weight to the nearest pound (kilogram).
- (5) RAS, RAP and FRAP weight to the nearest pound (kilogram).
- (6) Virgin asphalt binder weight to the nearest pound (kilogram).
- (7) Residual asphalt binder in the RAS, RAP 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.

1031.08 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.
- (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.”

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 FA1, FA 2, 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.

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

Effective : March 16, 2009

Revise Article 1004.03 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	Gravel Crushed Gravel Crushed Stone Crushed Sandstone Crushed Slag (ACBF) Crushed Steel Slag Crushed Concrete
HMA All Other	Stabilized Subbase or Shoulders	Gravel Crushed Gravel Crushed Stone Crushed Sandstone Crushed Slag Crushed Concrete The coarse aggregate for stabilized subbase, if approved by the Engineer, may be produced by blending aggregates according to Article 1004.04(a).
HMA High ESAL Low ESAL	IL-25.0, IL-19.0, or IL-19.0L	Crushed Gravel Crushed Stone Crushed Sandstone Crushed Slag (ACBF)
HMA High ESAL Low ESAL	C Surface IL-12.5,IL-9.5, or IL-9.5L	Gravel (only when used in IL-9.5L) Crushed Gravel Crushed Stone Crushed Sandstone Crushed Slag (ACBF) Crushed Steel Slag (except when used as leveling binder)

Use	Mixture	Aggregates Allowed
HMA High ESAL	D Surface IL-12.5 or IL-9.5	<p>Crushed Gravel Crushed Stone (other than Limestone) Crushed Sandstone Crushed Slag (ACBF) Crushed Steel Slag (except when used as leveling binder)</p> <p>Limestone may be used in Mixture D if blended by volume in the following coarse aggregate percentages: Up to 25% Limestone with at least 75% Dolomite. Up to 50% Limestone with at least 50% any aggregate listed for Mixture D except Dolomite. Up to 75% Limestone with at least 25% Crushed Slag (ACBF) or Crushed Sandstone.</p>
HMA High ESAL	E Surface IL-12.5 or IL-9.5	<p>Crushed Gravel Crushed Stone (other than Limestone and Dolomite) Crushed Sandstone</p> <p>No Limestone.</p> <p>Dolomite may be used in Mixture E if blended by volume in the following coarse aggregate percentages: Up to 75% Dolomite with at least 25% Crushed Sandstone, Crushed Slag (ACBF), or Crushed Steel Slag. When Crushed Slag (ACBF) or Crushed Steel Slag are used in the blend, the blend shall contain a minimum of 25% to a maximum of 75% of either Slag by volume. Up to 50% Dolomite with at least 50% of any aggregate listed for Mixture E.</p> <p>If required to meet design criteria, Crushed Gravel or Crushed Stone (other than Limestone or Dolomite) may be blended by volume in the following coarse aggregate percentages: Up to 75% Crushed Gravel or Crushed Stone (other than Limestone or Dolomite) with at least 25% Crushed Sandstone, Crushed Slag (ACBF), or Crushed Steel Slag. When Crushed Slag (ACBF) or Crushed Steel Slag are used in the blend, the blend shall contain a minimum of 25% to a maximum of 50% of either Slag by volume.</p>

Use	Mixture	Aggregates Allowed
HMA High ESAL	F Surface IL-12.5 or IL-9.5	Crushed Sandstone No Limestone. Crushed Gravel, Crushed Concrete, or Crushed Dolomite may be used in Mixture F if blended by volume in the following coarse aggregate percentages: Up to 50% Crushed Gravel, Crushed Concrete or Crushed Dolomite with at least 50% Crushed Sandstone, Crushed Slag (ACBF), Crushed Steel Slag, or any Other Crushed Stone (to include Granite, Diabase, Rhyolite or Quartzite). When Crushed Slag (ACBF) or Crushed Steel Slag are used in the blend, the blend shall contain a minimum of 50% to a maximum of 75% of either Slag by volume.

(b) Quality. For surface courses and binder courses when used as surface course, the coarse aggregate shall be Class B quality or better. For Class A (seal or cover coat), other binder courses, and surface course IL-9.5L (Low ESAL), the coarse aggregate shall be Class C quality or better. For All Other courses, the coarse aggregate shall be Class D quality or better.

(c) Gradation. The coarse aggregate gradations shall be as listed in the following table.

Use	Size/Application	Gradation No.
Class A-1, 2, & 3	3/8 in. (10 mm) Seal	CA 16
Class A-1	1/2 in. (13 mm) Seal	CA 15
Class A-2 & 3	Cover	CA 14
HMA High ESAL	IL-25.0 IL-19.0 IL-12.5 IL-9.5	CA 7 ^{1/} or CA 8 ^{1/} CA 11 ^{1/} CA 16 and/or CA 13 CA 16
HMA Low ESAL	IL-19.0L IL-9.5L	CA 11 ^{1/} CA 16
HMA All Other	Stabilized Subbase or Shoulders	CA 6 ^{2/} , CA 10, or CA 12

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

2/ CA 6 will not be permitted in the top lift of shoulders.

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

SPECIAL PROVISION
FOR
COOPERATION WITH UTILITIES

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

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 105.07 of the Standard Specifications with the following:

“105.07 Cooperation with Utilities. The adjustment of utilities consists of the relocation, removal, replacement, rearrangements, reconstruction, improvement, disconnection, connection, shifting, new installation or altering of an existing utility facility in any manner.

When the plans or special provisions include information pertaining to the location of underground utility facilities, such information represents only the opinion of the Department as to the location of such utilities and is only included for the convenience of the bidder. The Department assumes no responsibility in respect to the sufficiency or the accuracy of the information shown on the plans relative to the location of the underground utility facilities.

Utilities which are to be adjusted shall be adjusted by the utility owner or the owner's representative or by the Contractor as a contract item. Generally, arrangements for adjusting existing utilities will be made by the Department prior to project construction; however, utilities will not necessarily be adjusted in advance of project construction and, in some cases, utilities will not be removed from the proposed construction limits. When utility adjustments must be performed in conjunction with construction, the utility adjustment work will be shown on the plans and/or covered by Special Provisions.

When the Contractor discovers a utility has not been adjusted by the owner or the owner's representative as indicated in the contract documents, or the utility is not shown on the plans or described in the Special Provisions as to be adjusted in conjunction with construction, the Contractor shall not interfere with said utility, and shall take proper precautions to prevent damage or interruption of the utility and shall promptly notify the Engineer of the nature and location of said utility.

All necessary adjustments, as determined by the Engineer, of utilities not shown on the plans or not identified by markers, will be made at no cost to the Contractor except traffic structures, light poles, etc., that are normally located within the proposed construction limits as hereinafter defined will not be adjusted unless required by the proposed improvement.

(a) Limits of Proposed Construction for Utilities Paralleling the Roadway. For the purpose of this Article, limits of proposed construction for utilities extending in the same longitudinal direction as the roadway, shall be defined as follows:

- (1) The horizontal limits shall be a vertical plane, outside of, parallel to, and 600 mm (2 ft) distant at right angles from the plan or revised slope limits.

In cases where the limits of excavation for structures are not shown on the plans, the horizontal limits shall be a vertical plane 1.2 m (4 ft) outside the edges of structure footings or the structure where no footings are required.

- (2) The upper vertical limits shall be the regulations governing the roadbed clearance for the specific utility involved.
- (3) The lower vertical limits shall be the top of the utility at the depth below the proposed grade as prescribed by the governing agency or the limits of excavation, whichever is less.

(b) Limits of Proposed Construction for Utilities Crossing the Roadway. For the purpose of this Article, limits of proposed construction for utilities crossing the roadway in a generally transverse direction shall be defined as follows:

- (1) Utilities crossing excavations for structures that are normally made by trenching such as sewers, underdrains, etc. and all minor structures such as manholes, inlets, foundations for signs, foundations for traffic signals, etc., the limits shall be the space to be occupied by the proposed permanent construction unless otherwise required by the regulations governing the specific utility involved.
- (2) For utilities crossing the proposed site of major structures such as bridges, sign trusses, etc., the limits shall be as defined above for utilities extending in the same general direction as the roadway.

The Contractor may make arrangements for adjustment of utilities outside of the limits of proposed construction provided the Contractor furnishes the Department with a signed agreement with the utility owner covering the adjustments to be made. The cost of any adjustments made outside the limits of proposed construction shall be the responsibility of the Contractor unless otherwise provided.

The Contractor shall request all utility owners to field locate their facilities according to Article 107.31. The Engineer may make the request for location from the utility after receipt of notice from the Contractor. On request, the Engineer will make an inspection to verify that the utility company has field located its facilities, but will not assume responsibility for the accuracy of such work. The Contractor shall be responsible for maintaining the excavations or markers provided by the utility owners. This field location procedure may be waived if the utility owner has stated in writing to the Department it is satisfied the construction plans are sufficiently accurate. If the utility owner does not submit such statement to the Department, and they do not field locate their facilities in both horizontal and vertical alignment, the Engineer will authorize the Contractor in writing to proceed to locate the facilities in the most economical and reasonable manner, subject to the approval of the Engineer, and be paid according to Article 109.04.

The Contractor shall coordinate with any planned utility adjustment or new installation and the Contractor shall take all precautions to prevent disturbance or damage to utility facilities. Any failure on the part of the utility owner, or their representative, to proceed with any planned utility adjustment or new installation shall be reported promptly by the Contractor to the Engineer orally and in writing.

The Contractor shall take all necessary precautions for the protection of the utility facilities. The Contractor shall be responsible for any damage or destruction of utility facilities resulting from neglect, misconduct, or omission in the Contractor's manner or method of execution or nonexecution of the work, or caused by defective work or the use of unsatisfactory materials. Whenever any damage or destruction of a utility facility occurs as a result of work performed by the Contractor, the utility company will be immediately notified. The utility company will make arrangements to restore such facility to a condition equal to that existing before any such damage or destruction was done.

It is understood and agreed that the Contractor has considered in the bid all of the permanent and temporary utilities in their present and/or adjusted positions.

No additional compensation will be allowed for any delays, inconvenience, or damage sustained by the Contractor due to any interference from the said utility facilities or the operation of relocating the said utility facilities.

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

SPECIAL PROVISION
FOR
INSURANCE

Effective: February 1, 2007
Revised: August 1, 2007

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.

The Contractor shall name the following entities as additional insured under the Contractor's general liability insurance policy in accordance with Article 107.27:

The entities listed above and their officers, employees, and agents shall be indemnified and held harmless in accordance with Article 107.26.

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

SPECIAL PROVISION
FOR
SUBSTANCE ABUSE PREVENTION PROGRAM

Effective: January 1, 2008
Revised: January 8, 2008

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 P. A. 95-0635 or shall have a collective bargaining agreement in effect dealing with the subject matter of P. A. 95-0635.

The Contractor and any Subcontractor shall file with the public body engaged in the construction of the public works: 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.

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

SPECIAL PROVISION
FOR
SELECTION OF LABOR

Effective: August 1, 2010

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% 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.

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, 2012

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 Contractor shall be responsible to notify each subcontractor of the wage rates set forth in this contract and any revisions thereto. If the Department of Labor revises the wage rates, the revised rate as provided by the public body shall apply to this contract and the Contractor will not be allowed additional compensation on account of said revisions.
2. Payroll Records. The Contractor and each subcontractor shall make and keep, for a period of not less than three 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 each worker's name, address, telephone number when available, social security number, classification or classifications, the hourly wages paid in each pay period, the number of hours worked each day, and the starting and ending times of work each day. 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 tenth 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.

BDE SPECIAL PROVISIONS
For the January 18 and March 8, 2013 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.

<u>File Name</u>	<u>#</u>	<u>Special Provision Title</u>	<u>Effective</u>	<u>Revised</u>
80240	1	Above Grade Inlet Protection	July 1, 2009	Jan. 1, 2012
80099	2	Accessible Pedestrian Signals (APS)	April 1, 2003	Jan. 1, 2007
* 80274	3	Aggregate Subgrade Improvement	April 1, 2012	Jan. 1, 2013
* 80309	4	Anchor Bolts	Jan. 1, 2013	
80192	5	Automated Flagger Assistance Device	Jan. 1, 2008	
80173	6	Bituminous Materials Cost Adjustments	Nov. 2, 2006	Jan. 1, 2012
80241	7	Bridge Demolition Debris	July 1, 2009	
80276	8	Bridge Relief Joint Sealer	Jan. 1, 2012	Aug. 1, 2012
5026I	9	Building Removal-Case I (Non-Friable and Friable Asbestos)	Sept. 1, 1990	April 1, 2010
5048I	10	Building Removal-Case II (Non-Friable Asbestos)	Sept. 1, 1990	April 1, 2010
5049I	11	Building Removal-Case III (Friable Asbestos)	Sept. 1, 1990	April 1, 2010
5053I	12	Building Removal-Case IV (No Asbestos)	Sept. 1, 1990	April 1, 2010
80292	13	Coarse Aggregate in Bridge Approach Slabs/Footings	April 1, 2012	
* 80310	14	Coated Galvanized Steel Conduit	Jan. 1, 2013	
80198	15	Completion Date (via calendar days)	April 1, 2008	
80199	16	Completion Date (via calendar days) Plus Working Days	April 1, 2008	
80293	17	Concrete Box Culverts with Skews > 30 Degrees and Design Fills ≤ 5 Feet	April 1, 2012	
80294	18	Concrete Box Culverts with Skews ≤ 30 Degrees Regardless of Design Fill and Skews > 30 Degrees with Design Fills > 5 Feet	April 1, 2012	
* 80311	19	Concrete End Sections for Pipe Culverts	Jan. 1, 2013	
80277	20	Concrete Mix Design – Department Provided	Jan. 1, 2012	
80261	21	Construction Air Quality – Diesel Retrofit	June 1, 2010	
80029	22	Disadvantaged Business Enterprise Participation	Sept. 1, 2000	Aug. 2, 2011
* 80312	23	Drain Pipe, Tile, Drainage Mat, and Wall Drain	Jan. 1, 2013	
* 80313	24	Fabric Bearing Pads	Jan. 1, 2013	
80265	25	Friction Aggregate	Jan. 1, 2011	
80229	26	Fuel Cost Adjustment	April 1, 2009	July 1, 2009
80303	27	Granular Materials	Nov. 1, 2012	
* 80304	28	Grooving for Recessed Pavement Markings	Nov. 1, 2012	Jan. 1, 2013
* 80169	29	High Tension Cable Median Barrier	Jan. 1, 2007	Jan. 1, 2013
80246	30	Hot-Mix Asphalt – Density Testing of Longitudinal Joints	Jan. 1, 2010	April 1, 2012
* 80315	31	Insertion Lining of Culverts	Jan. 1, 2013	
80045	32	Material Transfer Device	June 15, 1999	Jan. 1, 2009
80297	33	Modified Urethane Pavement Marking	April 1, 2012	
80165	34	Moisture Cured Urethane Paint System	Nov. 1, 2006	Jan. 1, 2010
* 80253	35	Movable Traffic Barrier	Jan. 1, 2010	Jan. 1, 2013
80231	36	Pavement Marking Removal	April 1, 2009	
80298	37	Pavement Marking Tape Type IV	April 1, 2012	
80254	38	Pavement Patching	Jan. 1, 2010	
80022	39	Payments to Subcontractors	June 1, 2000	Jan. 1, 2006
* 80316	40	Placing and Consolidating Concrete	Jan. 1, 2013	
80278	41	Planting Woody Plants	Jan. 1, 2012	Aug. 1, 2012
* 80305	42	Polyurea Pavement Markings	Nov. 1, 2012	Jan. 1, 2013
* 80279	43	Portland Cement Concrete	Jan. 1, 2012	Jan. 1, 2013
80300	44	Preformed Plastic Pavement Marking Type D - Inlaid	April 1, 2012	
80218	45	Preventive Maintenance – Bituminous Surface Treatment	Jan. 1, 2009	April 1, 2012
80219	46	Preventive Maintenance – Cape Seal	Jan. 1, 2009	April 1, 2012

<u>File Name</u>	<u>#</u>	<u>Special Provision Title</u>	<u>Effective</u>	<u>Revised</u>
80220	47	Preventive Maintenance – Micro-Surfacing	Jan. 1, 2009	April 1, 2012
80221	48	Preventive Maintenance – Slurry Seal	Jan. 1, 2009	April 1, 2012
* 80281	49	Quality Control/Quality Assurance of Concrete Mixtures	Jan. 1, 2012	Jan. 1, 2013
3426I	50	Railroad Protective Liability Insurance	Dec. 1, 1986	Jan. 1, 2006
80157	51	Railroad Protective Liability Insurance (5 and 10)	Jan. 1, 2006	
* 80306	52	Reclaimed Asphalt Pavement (RAP) and Reclaimed Asphalt Shingles (RAS)	Nov. 1, 2012	Jan. 1, 2013
80224	53	Restoring Bridge Approach Pavements Using High-Density Foam	Jan. 1, 2009	Jan. 1, 2012
80271	54	Safety Edge	April 1, 2011	
80307	55	Seeding	Nov. 1, 2012	
80127	56	Steel Cost Adjustment	April 2, 2004	April 1, 2009
80255	57	Stone Matrix Asphalt	Jan. 1, 2010	Jan. 1, 2012
80143	58	Subcontractor Mobilization Payments	April 2, 2005	April 1, 2011
* 80317	59	Surface Testing of Hot-Mix Asphalt Overlays (NOTE: This special provision was previously named "Surface Testing of Pavements".)	Jan. 1, 2013	
80308	60	Synthetic Fibers in Concrete Gutter, Curb, Median and Paved Ditch	Nov. 1, 2012	
80286	61	Temporary Erosion and Sediment Control	Jan. 1, 2012	
80225	62	Temporary Raised Pavement Marker	Jan. 1, 2009	
* 80256	63	Temporary Water Filled Barrier	Jan. 1, 2010	Jan. 1, 2013
80301	64	Tracking the Use of Pesticides	Aug. 1, 2012	
80273	65	Traffic Control Deficiency Deduction	Aug. 1, 2011	
20338	66	Training Special Provisions	Oct. 15, 1975	
* 80318	67	Traversable Pipe Grate	Jan. 1, 2013	
80270	68	Utility Coordination and Conflicts	April 1, 2011	Jan. 1, 2012
80288	69	Warm Mix Asphalt	Jan. 1, 2012	Nov. 1, 2012
80302	70	Weekly DBE Trucking Reports	June 2, 2012	
80289	71	Wet Reflective Thermoplastic Pavement Marking	Jan. 1, 2012	
80071	72	Working Days	Jan. 1, 2002	

The following special provisions are either in the 2013 Standard Specifications, the 2013 Recurring Special Provisions, or the special provisions Portland Cement Concrete, QC/QA of Concrete Mixtures, or Placing and Consolidating Concrete:

<u>File Name</u>	<u>Special Provision Title</u>	<u>New Location</u>	<u>Effective</u>	<u>Revised</u>
80275	Agreement to Plan Quantity	Article 202.07	Jan. 1, 2012	
80291	Calcium Chloride Accelerator for Class PP-2 Concrete	Recurring CS #28	April 1, 2012	
80237	Construction Air Quality – Diesel Vehicle Emissions Control	Articles 105.03 and 107.41	April 1, 2009	Jan. 2, 2012
80239	Construction Air Quality – Idling Restrictions	Articles 105.03 and 107.41	April 1, 2009	
80177	Digital Terrain Modeling for Earthwork Calculations	Recurring CS #32	April 1, 2007	
80272	Drainage and Inlet Protection Under Traffic	Articles 603.02 and 603.07	April 1, 2011	Jan. 1, 2012
80228	Flagger at Side Roads and Entrances	Articles 701.13 and 701.20	April 1, 2009	
80109	Impact Attenuators	Section 643	Nov. 1, 2003	Jan. 1, 2012
80110	Impact Attenuators, Temporary	Section 706	Nov. 1, 2003	Jan. 1, 2012
80203	Metal Hardware Cast into Concrete	Articles 503.02, 504.02, and 1006.13	April 1, 2008	Jan. 1, 2012
80290	Payrolls and Payroll Records	Recurring CS #5	Jan. 2, 2012	
80299	Portland Cement Concrete Inlay or Overlay	Recurring CS #29	April 1, 2012	
80280	Portland Cement Concrete Sidewalk	Article 424.07	Jan. 1, 2012	

<u>File Name</u>	<u>Special Provision Title</u>	<u>New Location</u>	<u>Effective</u>	<u>Revised</u>
80152	Self-Consolidating Concrete for Cast-In-Place Construction	The following special provisions: Portland Cement Concrete, QC/QA of Concrete Mixtures and Placing and Consolidating Concrete	Nov. 1, 2005	April 1, 2012
80132	Self-Consolidating Concrete for Precast and Precast Prestressed Products	The following special provisions: Portland Cement Concrete, QC/QA of Concrete Mixtures and Placing and Consolidating Concrete	July 1, 2004	April 1, 2012
80284	Shoulder Rumble Strips	Article 642.05	Jan. 1, 2012	
80285	Sidewalk, Corner or Crosswalk Closure	Articles 701.03, 701.15, and 1106.02	Jan. 1, 2012	
80075	Surface Testing of Pavements (Section 406 overlay portion will remain a special provision and will now be called "Surface Testing of HMA Overlays".)	Articles 407.09, 407.12, 420.10, 420.20, and 1101.10	April 1, 2002	Jan. 1, 2007
80287	Type G Inlet Box	Article 610.09	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
- Railroad Protective Liability Insurance
- Training Special Provisions
- Working Days

PAYMENTS TO SUBCONTRACTORS (BDE)

Effective: June 1, 2000

Revised: January 1, 2006

Federal regulations found at 49 CFR §26.29 mandate the Department to establish a contract clause to require Contractors to pay subcontractors for satisfactory performance of their subcontracts and to set the time for such payments.

State law also addresses the timing of payments to be made to subcontractors and material suppliers. Section 7 of the Prompt Payment Act, 30 ILCS 540/7, requires that when a Contractor receives any payment from the Department, the Contractor shall make corresponding, proportional payments to each subcontractor and material supplier performing work or supplying material within 15 calendar days after receipt of the Department payment. Section 7 of the Act further provides that interest in the amount of two percent per month, in addition to the payment due, shall be paid to any subcontractor or material supplier by the Contractor if the payment required by the Act is withheld or delayed without reasonable cause. The Act also provides that the time for payment required and the calculation of any interest due applies to transactions between subcontractors and lower-tier subcontractors and material suppliers throughout the contracting chain.

This Special Provision establishes the required federal contract clause, and adopts the 15 calendar day requirement of the State Prompt Payment Act for purposes of compliance with the federal regulation regarding payments to subcontractors. This contract is subject to the following payment obligations.

When progress payments are made to the Contractor according to Article 109.07 of the Standard Specifications, the Contractor shall make a corresponding payment to each subcontractor and material supplier in proportion to the work satisfactorily completed by each subcontractor and for the material supplied to perform any work of the contract. The proportionate amount of partial payment due to each subcontractor and material supplier throughout the contracting chain shall be determined by the quantities measured or otherwise determined as eligible for payment by the Department and included in the progress payment to the Contractor. Subcontractors and material suppliers shall be paid by the Contractor within 15 calendar days after the receipt of payment from the Department. The Contractor shall not hold retainage from the subcontractors. These obligations shall also apply to any payments made by subcontractors and material suppliers to their subcontractors and material suppliers; and to all payments made to lower tier subcontractors and material suppliers throughout the contracting chain. Any payment or portion of a payment subject to this provision may only be withheld from the subcontractor or material supplier to whom it is due for reasonable cause.

This Special Provision does not create any rights in favor of any subcontractor or material supplier against the State or authorize any cause of action against the State on account of any payment, nonpayment, delayed payment, or interest claimed by application of the State Prompt Payment Act. The Department will not approve any delay or postponement of the 15 day requirement except for reasonable cause shown after notice and hearing pursuant to Section

| 7(b) of the State Prompt Payment Act. State law creates other and additional remedies available to any subcontractor or material supplier, regardless of tier, who has not been paid for work properly performed or material furnished. These remedies are a lien against public funds set forth in Section 23(c) of the Mechanics Lien Act, 770 ILCS 60/23(c), and a recovery on the Contractor's payment bond according to the Public Construction Bond Act, 30 ILCS 550.

80022

WORKING DAYS (BDE)

Effective: January 1, 2002

The Contractor shall complete the work within 20 working days.

80071

SUBCONTRACTOR MOBILIZATION PAYMENTS (BDE)

Effective: April 2, 2005

Revised: April 1, 2011

To account for the preparatory work and operations necessary for the movement of subcontractor personnel, equipment, supplies, and incidentals to the project site and for all other work or operations that must be performed or costs incurred when beginning work approved for subcontracting according to Article 108.01 of the Standard Specifications, the Contractor shall make a mobilization payment to each subcontractor.

This mobilization payment shall be made at least 14 days prior to the subcontractor starting work. The amount paid shall be equal to 3 percent of the amount of the subcontract reported on form BC 260A submitted for the approval of the subcontractor's work.

The mobilization payment to the subcontractor is an advance payment of the reported amount of the subcontract and is not a payment in addition to the amount of the subcontract; therefore, the amount of the advance payment will be deducted from future progress payments.

This provision shall be incorporated directly or by reference into each subcontract approved by the Department.

80143

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

PAVEMENT PATCHING (BDE)

Effective: January 1, 2010

Revise the first sentence of the second paragraph of Article 701.17(e)(1) of the Standard Specifications to read:

“In addition to the traffic control and protection shown elsewhere in the contract for pavement, two devices shall be placed immediately in front of each open patch, open hole, and broken pavement where temporary concrete barriers are not used to separate traffic from the work area.”

80254

CONSTRUCTION AIR QUALITY – DIESEL RETROFIT (BDE)

Effective: June 1, 2010

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

Contractor and subcontractor diesel powered off-road equipment assigned to the contract shall be retrofitted using the phased in approach shown below. Equipment that is of a model year older than the year given for that equipment’s respective horsepower range shall be retrofitted:

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

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

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

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

- a) Included on the U.S. Environmental Protection Agency (USEPA) *Verified Retrofit Technology List* (<http://www.epa.gov/otaq/retrofit/verif-list.htm>), or verified by the California Air Resources Board (CARB) (<http://www.arb.ca.gov/diesel/verde/verdev.htm>); or
- b) Retrofitted with a non-verified diesel retrofit emission control device if verified retrofit emission control devices are not available for equipment proposed to be used on the project, and if the Contractor has obtained a performance certification from the retrofit

device manufacturer that the emission control device provides a minimum PM emission reduction of 50 percent.

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

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

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

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

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

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

Diesel Retrofit Deficiency Deduction

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

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

If a Contractor accumulates three diesel retrofit deficiency deductions for the same piece of equipment in a contract period, the Contractor will be shutdown until the deficiency is corrected.

Such a shutdown will not be grounds for any extension of the contract time, waiver of penalties, or be grounds for any claim.

80261

FRICTION 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 50 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>
		<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

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
HMA High ESAL	F 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>		

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

UTILITY COORDINATION AND CONFLICTS (BDE)

Effective: April 1, 2011

Revised: January 1, 2012

Revise Article 105.07 of the Standard Specifications to read:

“105.07 Cooperation with Utilities. The Department reserves the right at any time to allow work by utilities on or near the work covered by the contract. The Contractor shall conduct his/her work so as not to interfere with or hinder the progress or completion of the work being performed by utilities. The Contractor shall also arrange the work and shall place and dispose of the materials being used so as not to interfere with the operations of utility work in the area.

The Contractor shall cooperate with the owners of utilities in their removal and rearrangement operations so work may progress in a reasonable manner, duplication or rearrangement of work may be reduced to a minimum, and services rendered by those parties will not be unnecessarily interrupted.

The Contractor shall coordinate with any planned utility adjustment or new installation and the Contractor shall take all precautions to prevent disturbance or damage to utility facilities. Any failure on the part of the utility owner, or their representative, to proceed with any planned utility adjustment or new installation shall be reported promptly by the Contractor to the Engineer.”

Revise the first sentence of the last paragraph of Article 107.19 of the Standard Specifications to read:

“When the Contractor encounters unexpected regulated substances due to the presence of utilities in unanticipated locations, the provisions of Article 107.40 shall apply; otherwise, if the Engineer does not direct a resumption of operations, the provisions of Article 108.07 shall apply.”

Revise Article 107.31 of the Standard Specification to read:

“107.31 Reserved.”

Add the following four Articles to Section 107 of the Standard Specifications:

“107.37 Locations of Utilities within the Project Limits. All known utilities existing within the limits of construction are either indicated on the plans or visible above ground. For the purpose of this Article, the limits of proposed construction are defined as follows:

(a) Limits of Proposed Construction for Utilities Paralleling the Roadway.

(1) The horizontal limits shall be a vertical plane, outside of, parallel to, and 2 ft (600 mm) distant at right angles from the plan or revised slope limits.

In cases where the limits of excavation for structures are not shown on the plans, the horizontal limits shall be a vertical plane 4 ft (1.2 m) outside the edges of structure footings or the structure where no footings are required.

- (2) The upper vertical limits shall be the regulations governing the roadbed clearance for the specific utility involved.
 - (3) The lower vertical limits shall be either the top of the utility at the depth below the proposed grade as prescribed by the governing agency or the limits of excavation, whichever is less.
- (b) Limits of Proposed Construction for Utilities Crossing the Roadway in a Generally Transverse Direction.
- (1) Utilities crossing excavations for structures that are normally made by trenching such as sewers, underdrains, etc. and all minor structures such as manholes, inlets, foundations for signs, foundations for traffic signals, etc., the limits shall be the space to be occupied by the proposed permanent construction, unless otherwise required by the regulations governing the specific utility involved.
 - (2) For utilities crossing the proposed site of major structures such as bridges, sign trusses, etc., the limits shall be as defined above for utilities extending in the same general direction as the roadway.

It is understood and agreed that the Contractor has considered in the bid all of the permanent and temporary utilities in their present and/or adjusted positions as indicated in the contract. It is further understood the actual location of the utilities may be located anywhere within the tolerances provided in 220 ILCS 50/2.8 or Administrative Code Title 92 Part 530.40(c), and the proximity of some utilities to construction may require extraordinary measures by the Contractor to protect those utilities.

No additional compensation will be allowed for any delays, inconveniences, or damages sustained by the Contractor due to the presence of or any claimed interference from known utility facilities or any adjustment of them, except as specifically provided in the contract.

107.38 Adjustments of Utilities within the Project Limits. The adjustment of utilities consists of the relocation, removal, replacement, rearrangements, reconstruction, improvement, disconnection, connection, shifting, new installation, or altering of an existing utility facility in any manner.

Utilities which are to be adjusted shall be adjusted by the utility owner or the owner's representative or by the Contractor as a contract item. Generally, arrangements for adjusting known utilities will be made by the Department prior to project construction; however, utilities will not necessarily be adjusted in advance of project construction and, in some cases, utilities will not be removed from the proposed construction limits as described in Article 107.37. When

utility adjustments must be performed in conjunction with construction, the utility adjustment work will be indicated in the contract.

The Contractor may make arrangements for adjustment of utilities indicated in the contract, but not scheduled by the Department for adjustment, provided the Contractor furnishes the Department with a signed agreement with the utility owner covering the adjustments to be made. The cost of any such adjustments shall be the responsibility of the Contractor.

107.39 Contractor’s Responsibility for Locating and Protecting Utility Property and Services. At points where the Contractor’s operations are adjacent to properties or facilities of utility companies, or are adjacent to other property, damage to which might result in considerable expense, loss, or inconvenience, work shall not be commenced until all arrangements necessary for the protection thereof have been made.

Within the State of Illinois, a State-Wide One Call Notice System has been established for notifying utilities. Outside the city limits of the City of Chicago, the system is known as the Joint Utility Locating Information for Excavators (JULIE) System. Within the city limits of the City of Chicago the system is known as DIGGER. All utility companies and municipalities which have buried utility facilities in the State of Illinois are a part of this system.

The Contractor shall call JULIE (800-892-0123) or DIGGER (312-744-7000), a minimum of 48 hours in advance of work being done in the area, and they will notify all member utility companies involved their respective utility should be located.

For utilities which are not members of JULIE or DIGGER, the Contractor shall contact the owners directly. The plan general notes will indicate which utilities are not members of JULIE or DIGGER.

The following table indicates the color of markings required of the State-Wide One Call Notification System.

Utility Service	Color
Electric Power, Distribution and Transmission	Safety Red
Municipal Electric Systems	Safety Red
Gas Distribution and Transmission	High Visibility Safety Yellow
Oil Distribution and Transmission	High Visibility Safety Yellow
Telephone and Telegraph System	Safety Alert Orange
Community Antenna Television Systems	Safety Alert Orange
Water Systems	Safety Precaution Blue
Sewer Systems	Safety Green
Non-Potable Water and Slurry Lines	Safety Purple
Temporary Survey	Safety Pink
Proposed Excavation	Safety White (Black when snow is on the ground)

The State-Wide One Call Notification System will provide for horizontal locations of utilities. When it is determined that the vertical location of the utility is necessary to facilitate construction, the Engineer may make the request for location from the utility after receipt of notice from the Contractor. If the utility owner does not field locate their facilities to the satisfaction of the Engineer, the Engineer will authorize the Contractor in writing to proceed to locate the facilities in the most economical and reasonable manner, subject to the approval of the Engineer, and be paid according to Article 109.04.

The Contractor shall be responsible for maintaining the excavations or markers provided by the utility owners.

The Contractor shall take all necessary precautions for the protection of the utility facilities. The Contractor shall be responsible for any damage or destruction of utility facilities resulting from neglect, misconduct, or omission in the Contractor's manner or method of execution or nonexecution of the work, or caused by defective work or the use of unsatisfactory materials. Whenever any damage or destruction of a utility facility occurs as a result of work performed by the Contractor, the utility company will be immediately notified. The utility company will make arrangements to restore such facility to a condition equal to that existing before any such damage or destruction was done.

In the event of interruption of utility services as a result of accidental breakage or as a result of being exposed or unsupported, the Contractor shall promptly notify the proper authority and shall cooperate with the said authority in the restoration of service. If water service is interrupted, repair work shall be continuous until the service is restored. No work shall be undertaken around fire hydrants until provisions for continued service have been approved by the local fire authority.

107.40 Conflicts with Utilities. Except as provided hereinafter, the discovery of a utility in an unanticipated location will be evaluated according to Article 104.03. It is understood and agreed that the Contractor has considered in the bid all facilities not meeting the definition of a utility in an unanticipated location and no additional compensation will be allowed for any delays, inconveniences, or damages sustained by the Contractor due to the presence of or any claimed interference from such facilities.

When the Contractor discovers a utility in an unanticipated location, the Contractor shall not interfere with said utility, shall take proper precautions to prevent damage or interruption of the utility, and shall promptly notify the Engineer of the nature and location of said utility.

(a) Definition. A utility in an unanticipated location is defined as an active or inactive utility, which is either:

(1) Located underground and (a) not shown in any way in any location on the contract documents; (b) not identified in writing by the Department to the Contractor prior to the letting; or (c) not located relative to the location shown in the contract within the tolerances provided in 220 ILCS 50/2.8 or Administrative Code Title 92 Part 530.40(c); or

(2) Located above ground or underground and not relocated as provided in the contract.

Service connections shall not be considered to be utilities in unanticipated locations.

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

(1) Minor Delay. A minor delay occurs when the Contractor's operation is completely stopped by a utility in an unanticipated location for more than two hours, but not to exceed three weeks.

(2) Major Delay. A major delay occurs when the Contractor's operation is completely stopped by a utility in an unanticipated location for more than three weeks.

(3) Reduced Rate of Production Delay. A reduced rate of production delay occurs when the contractor's rate of production decreases by more than 25 percent and lasts longer than seven days.

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

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

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

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

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

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

Whether covered by (1), (2) or (3) above, additional traffic control required as a result of the operation(s) delayed will be paid for according to Article 109.04 for the total length of the delay.

If the delay is clearly shown to have caused work, which would have otherwise been completed, to be done after material or labor costs have increased, such increases may be paid. Payment for materials will be limited to increased cost substantiated by documentation furnished by the Contractor. Payment for increased labor rates will include those items in Article 109.04(b)(1) and (2), except the 35 percent and ten percent additives will not be permitted. On a working day contract, a delay occurring between November 30 and May 1, when work has not started, will not be considered as eligible for payment of measured labor and material costs.

Project overhead (not including interest) will be allowed when all progress on the contract has been delayed, and will be calculated as 15 percent of the delay claim.

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

TRAFFIC CONTROL DEFICIENCY DEDUCTION (BDE)

Effective: August 1, 2011

Revise the third sentence of the third paragraph of Article 105.03(b) of the Standard Specifications to read:

“The daily monetary deduction will be \$2,500.”

80273

WEEKLY DBE TRUCKING REPORTS (BDE)

Effective: June 2, 2012

The Contractor shall provide a weekly report of Disadvantaged Business Enterprise (DBE) trucks hired by the Contractor or subcontractors (i.e. not owned by the Contractor or subcontractors) that are used on the jobsite; or used for the delivery and/or removal of equipment/material to and from the jobsite. The jobsite shall also include offsite locations, such as plant sites or storage sites, when those locations are used solely for this contract.

The report shall be submitted on the form provided by the Department within ten business days following the reporting period. The reporting period shall be Monday through Sunday for each week reportable trucking activities occur. The report shall be submitted to the Engineer and a copy shall be provided to the district EEO Officer.

Any costs associated with providing weekly DBE trucking reports shall be considered as included in the contract unit prices bid for the various items of work involved and no additional compensation will be allowed.

80302

GRANULAR MATERIALS (BDE)

Effective: November 1, 2012

Revise the title of Article 1003.04 of the Standard Specifications to read:

“1003.04 Fine Aggregate for Bedding, Trench Backfill, Embankment, Porous Granular Backfill, Sand Backfill for Underdrains, and French Drains.”

Revise Article 1003.04(c) of the Standard Specifications to read:

“(c) Gradation. The fine aggregate gradations for granular embankment, granular backfill, bedding, and trench backfill for pipe culverts and storm sewers shall be FA 1, FA 2, or FA 6 through FA 21.

The fine aggregate gradation for porous granular embankment, porous granular backfill, french drains, and sand backfill for underdrains shall be FA 1, FA 2, or FA 20, except the percent passing the No. 200 (75 µm) sieve shall be 2±2.”

Revise Article 1004.05(c) of the Standard Specifications to read:

“(c) Gradation. The coarse aggregate gradations shall be as follows.

Application	Gradation
Blotter	CA 15
Granular Embankment, Granular Backfill, Bedding, and Trench Backfill for Pipe Culverts and Storm Sewers	CA 6, CA 9, CA 10, CA 12, CA17, CA18, and CA 19
Porous Granular Embankment, Porous Granular Backfill, and French Drains	CA 7, CA 8, CA 11, CA 15, CA 16 and CA 18”

RECLAIMED ASPHALT PAVEMENT AND RECLAIMED ASPHALT SHINGLES (BDE)

Effective: November 1, 2012

Revise: January 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 produced by cold milling or crushing an existing hot-mix asphalt (HMA) pavement. 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) Sources”, 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 93 percent passing the #4 (4.75 mm) sieve based on a dry shake gradation. RAS shall be uniform in gradation and asphalt binder content and 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. No additional RAP shall be added to the pile after the pile has been sealed. Stockpiles shall be sufficiently separated to prevent intermingling at the base. Stockpiles shall be identified by signs indicating the type as listed below (i.e. “Homogeneous Surface”).

Prior to milling, the Contractor shall request the District provide documentation on the quality of the RAP to clarify the appropriate stockpile.

- (1) Fractionated RAP (FRAP). FRAP shall consist of RAP from Class I, HMA (High and Low ESAL) 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 fractionated prior to testing by screening into a minimum of two size 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 shall pass the sieve size specified below for the mix the FRAP will be incorporated.

Mixture FRAP will be used in:	Sieve Size that 100% of FRAP Shall Pass
IL-25.0	2 in. (50 mm)
IL-19.0	1 1/2 in. (40 mm)
IL-12.5	1 in. (25 mm)
IL-9.5	3/4 in. (20 mm)
IL-4.75	1/2 in. (13 mm)

- (2) Homogeneous. Homogeneous RAP stockpiles shall consist of RAP from Class I, HMA (High and Low ESAL) mixtures and represent: 1) the same aggregate quality, but shall be at least C quality; 2) the same type of crushed aggregate (either crushed natural aggregate, ACBF slag, or steel slag); 3) similar gradation; and 4) similar asphalt binder content. If approved by the Engineer, combined single pass surface/binder millings may be considered "homogenous" with a quality rating dictated by the lowest coarse aggregate quality present in the mixture.
- (3) Conglomerate. Conglomerate RAP stockpiles shall consist of RAP from Class I, HMA (High and Low ESAL) 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 prior to testing by crushing to where all RAP shall pass the 5/8 in. (16 mm) or smaller screen. Conglomerate RAP stockpiles shall not contain steel slag.
- (4) Conglomerate "D" Quality (DQ). Conglomerate DQ RAP stockpiles shall consist of RAP from Class I, HMA (High or Low ESAL), or "All Other" (as defined by Article 1030.04(a)(3)) mixtures. 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.
- (5) Non-Quality. RAP stockpiles that do not meet the requirements of the stockpile categories listed above shall be classified as "Non-Quality".

RAP/FRAP containing contaminants, such as earth, brick, sand, concrete, sheet asphalt, bituminous surface treatment (i.e. chip seal), pavement fabric, joint sealants, 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 not be intermingled. Each stockpile shall be signed indicating what type of RAS is present.

Unless otherwise approved by the Engineer, mechanically blending manufactured sand (FM 20 or FM 22) up to an equal weight of RAS with the processed RAS will be permitted to improve workability. The sand shall be "B Quality" or better from an approved Aggregate Gradation Control System source. The sand shall be 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. RAP/FRAP and RAS testing shall be according to the following.

- (a) RAP/FRAP Testing. When used in HMA, the RAP/FRAP shall be sampled and tested either during or after stockpiling.

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

Each sample shall be split to obtain two equal 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 or RAS blended with manufactured sand shall be sampled and tested during stockpiling according to Illinois Department of Transportation Policy Memorandum, "Reclaimed Asphalt Shingle (RAS) Source".

Samples shall be collected during stockpiling 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 250 tons (225 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 or RAS blended with manufactured sand shall be stockpiled 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.

Before testing, each sample shall be split to obtain two test samples. One of the two test samples from the final split shall be labeled and stored for Department use. The Contractor shall perform a washed extraction and test for unacceptable materials on 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.

If the sampling and testing was performed at the shingle processing facility in accordance with the QC Plan, the Contractor shall obtain and make available all of the test results from start of the initial stockpile.

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

- (a) Evaluation of RAP/FRAP Test Results. All of the extraction results shall be compiled and averaged for asphalt binder content and gradation and, when applicable G_{mm} . Individual extraction test results, when compared to the averages, will be accepted if within the tolerances listed below.

Parameter	FRAP/Homogeneous /Conglomerate	Conglomerate "D" Quality
1 in. (25 mm)		$\pm 5 \%$
1/2 in. (12.5 mm)	$\pm 8 \%$	$\pm 15 \%$
No. 4 (4.75 mm)	$\pm 6 \%$	$\pm 13 \%$
No. 8 (2.36 mm)	$\pm 5 \%$	
No. 16 (1.18 mm)		$\pm 15 \%$
No. 30 (600 μm)	$\pm 5 \%$	
No. 200 (75 μm)	$\pm 2.0 \%$	$\pm 4.0 \%$
Asphalt Binder	$\pm 0.4 \%$ ^{1/}	$\pm 0.5 \%$
G_{mm}	± 0.03	

1/ The tolerance for FRAP shall be $\pm 0.3 \%$.

If more than 20 percent of the individual sieves and/or asphalt binder content tests are out of the above tolerances, the RAP/FRAP shall not be used in HMA unless the

RAP/FRAP representing the failing tests is removed from the stockpile. All test data and acceptance ranges shall be sent to the District for evaluation.

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 (RAP)".

- (b) Evaluation of RAS and RAS Blended with Manufactured Sand 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. Individual test results, when compared to the averages, will be accepted if within the tolerances listed below.

Parameter	RAS
No. 8 (2.36 mm)	± 5 %
No. 16 (1.18 mm)	± 5 %
No. 30 (600 µm)	± 4 %
No. 200 (75 µm)	± 2.0 %
Asphalt Binder Content	± 1.5 %

If more than 20 percent of the individual sieves and/or asphalt binder content tests are out of the above tolerances, or if the percent unacceptable material exceeds 0.5 percent by weight of material retained on the # 4 (4.75 mm) sieve, the RAS or RAS blend shall not be used in Department projects. All test data and acceptance ranges shall be sent to the District for evaluation.

1031.05 Quality Designation of Aggregate in RAP/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. Coarse and fine FRAP 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.

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

(a) RAP/FRAP. The use of RAP/FRAP in HMA shall be as follows.

- (1) Coarse Aggregate Size. The coarse aggregate in all RAP shall be equal to or less than the nominal maximum size requirement for the HMA mixture to be produced.
- (2) Steel Slag Stockpiles. Homogeneous RAP stockpiles containing steel slag will be approved for use in all HMA (High ESAL and Low ESAL) Surface and Binder Mixture applications.
- (3) Use in HMA Surface Mixtures (High and Low ESAL). RAP/FRAP stockpiles for use in HMA surface mixtures (High and Low ESAL) shall be FRAP or homogeneous in which the coarse aggregate is Class B quality or better. RAP/FRAP from Conglomerate stockpiles shall be considered equivalent to limestone for frictional considerations. Known frictional contributions from plus #4 (4.75 mm) homogeneous RAP and FRAP stockpiles will be accounted for in meeting frictional requirements in the specified mixture.
- (4) Use in HMA Binder Mixtures (High and Low ESAL), HMA Base Course, and HMA Base Course Widening. RAP/FRAP stockpiles for use in HMA binder mixtures (High and Low ESAL), HMA base course, and HMA base course widening shall be FRAP, homogeneous, or conglomerate, in which the coarse aggregate is Class C quality or better.
- (5) Use in Shoulders and Subbase. RAP/FRAP stockpiles for use in HMA shoulders and stabilized subbase (HMA) shall be FRAP, homogeneous, conglomerate, or conglomerate DQ.
- (6) When the Contractor chooses the RAP option, the percentage of RAP shall not exceed the amounts indicated in Article 1031.06(c)(1) below for a given N Design.

- (b) RAS. RAS meeting Type 1 or Type 2 requirements will be permitted in all HMA applications as specified herein.
- (c) RAP/FRAP and/or RAS Usage Limits. Type 1 or Type 2 RAS may be used alone or in conjunction with RAP or FRAP in HMA mixtures up to a maximum of 5.0% by weight of the total mix.
- (1) RAP/RAS. When RAP is used alone or RAP is used in conjunction with RAS, the percentage of virgin asphalt binder replacement shall not exceed the amounts listed in the Max RAP/RAS ABR table listed below for the given Ndesign.

RAP/RAS Maximum Asphalt Binder Replacement (ABR) Percentage

HMA Mixtures ^{1/, 2/}	RAP/RAS Maximum ABR %		
Ndesign	Binder/Leveling Binder	Surface	Polymer Modified
30	30	30	10
50	25	15	10
70	15	10	10
90	10	10	10
105	10	10	10

1/ For HMA “All Other” (shoulder and stabilized subbase) N-30, the RAP/RAS ABR shall not exceed 50 percent of the mixture.

2/ When RAP/RAS ABR exceeds 20 percent, the high and low virgin asphalt binder grades shall each be reduced by one grade (i.e. 25 percent ABR would require a virgin asphalt binder grade of PG64-22 to be reduced to a PG58-28). If warm mix asphalt (WMA) technology is utilized, and production temperatures do not exceed 275 °F (135 °C) the high and low virgin asphalt binder grades shall each be reduced by one grade when RAP/RAS ABR exceeds 25 percent (i.e. 26 percent RAP/RAS ABR would require a virgin asphalt binder grade of PG64-22 to be reduced to a PG58-28).

(2) FRAP/RAS. When FRAP is used alone or FRAP is used in conjunction with RAS, the percentage of virgin asphalt binder replacement shall not exceed the amounts listed in the FRAP/RAS tables listed below for the given N design.

Level 1 - FRAP/RAS Maximum Asphalt Binder Replacement (ABR) Percentage

HMA Mixtures ^{1/, 2/}	Level 1 - FRAP/RAS Maximum ABR %		
Ndesign	Binder/Leveling Binder	Surface	Polymer Modified ^{3/, 4/}
30	35	35	10

50	30	25	10
70	25	20	10
90	20	15	10
105	10	10	10

- 1/ For HMA “All Other” (shoulder and stabilized subbase) N30, the FRAP/RAS ABR shall not exceed 50 percent of the mixture.
- 2/ When FRAP/RAS ABR exceeds 20 percent for all mixes the high and low virgin asphalt binder grades shall each be reduced by one grade (i.e. 25 percent ABR would require a virgin asphalt binder grade of PG64-22 to be reduced to a PG58-28). If warm mix asphalt (WMA) technology is utilized, and production temperatures do not exceed 275 °F (135 °C) the high and low virgin asphalt binder grades shall each be reduced by one grade when FRAP/RAS ABR exceeds 25 percent (i.e. 26 percent ABR would require a virgin asphalt binder grade of PG64-22 to be reduced to a PG58-28).
- 3/ For SMA the FRAP/RAS ABR shall not exceed 20 percent.
- 4/ For IL-4.75 mix the FRAP/RAS ABR shall not exceed 20 percent.

Level 2 – FRAP/RAS Maximum Asphalt Binder Replacement (ABR) Percentage

HMA Mixtures <small>1/, 2/</small>	Level 2 – FRAP/RAS Maximum ABR %		
	Ndesign	Binder/Leveling Binder	Surface
30	40	40	10
50	40	30	10
70	30	20	10
90	30	20	10
105	30	15	10

- 1/ For HMA “All Other” (shoulder and stabilized subbase) N30, the FRAP/RAS ABR shall not exceed 50 percent of the mixture.
- 2/ When FRAP/RAS ABR exceeds 20 percent for all mixes the high and low virgin asphalt binder grades shall each be reduced by one grade (i.e. 25 percent ABR would require a virgin asphalt binder grade of PG64-22 to be reduced to a PG58-28). If warm mix asphalt (WMA) technology is utilized, and production temperatures do not exceed 275 °F (135 °C) the high and low virgin asphalt binder grades shall each be reduced by one grade when FRAP/RAS ABR exceeds 25 percent (i.e. 26 percent ABR would require a virgin asphalt binder grade of PG64-22 to be reduced to a PG58-28).

3/ For SMA the FRAP/RAS ABR shall not exceed 20 percent.

4/ For IL-4.75 mix the FRAP/RAS ABR shall not exceed 30 percent.

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

FRAP/RAS mix designs exceeding the Level 1 FRAP/RAS Maximum ABR percentages shall be tested prior to submittal for verification, according to Illinois Modified AASHTO T 324 (Hamburg Wheel) and shall meet the following requirements.

Asphalt Binder Grade	# Repetitions	Max. Rut Depth in. (mm)
PG76-XX	20,000	1/2 (12.5)
PG70-XX	15,000	1/2 (12.5)
PG64-XX	7,500	1/2 (12.5)
PG58-XX	5,000	1/2 (12.5)

- (a) RAP/FRAP and/or RAS. RAP/FRAP and/or RAS designs shall be submitted for volumetric verification. If additional RAP/FRAP stockpiles are tested and found that no more than 20 percent of the results, as defined under "Testing" herein, are outside of the control tolerances set for the original RAP/FRAP stockpile and HMA mix design, and meets all of the requirements herein, the additional RAP/FRAP stockpiles may be used in the original mix 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. Mixture production where the FRAP/RAS ABR percentage exceeds the Level 1 limits, shall be sampled within the first 500 tons (450 metric tons) on the first day of production with a split reserved for the Department. The mix sample shall be tested according to the Illinois Modified AASHTO T 324 and shall meet the requirements specified herein. Mix production shall not exceed 1500 tons (1350 metric tons) or one day's production, whichever comes first, until the testing is completed and the mixture is found to be in conformance. The requirement to cease mix production may be waived if the plant produced mixture conformance is demonstrated prior to start of mix production for a State contract.

- (a) RAP/FRAP. The coarse aggregate in all RAP/FRAP used shall be equal to or less than the nominal maximum size requirement for the HMA mixture being produced.

To remove or reduce agglomerated material, a scalping screen, gator, crushing unit, or comparable sizing device approved by the Engineer shall be used in the RAP 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 the RAP/FRAP control tolerances or QC/QA test results require corrective action, the Contractor shall cease production of the mixture containing RAP/FRAP and either switch to the virgin aggregate design or submit a new RAP/FRAP design.

- (b) RAS. RAS shall be incorporated into the HMA mixture either by a separate weight depletion system or by using the RAP weigh belt. Either feed system shall be interlocked with the aggregate feed or weigh system to maintain correct proportions for all rates of production and batch sizes. The portion of RAS shall be controlled accurately to within ± 0.5 percent of the amount of RAS utilized. When using the weight depletion system, flow indicators or sensing devices shall be provided and interlocked with the plant controls such that the mixture production is halted when RAS flow is interrupted.

When producing HMA containing RAS, a positive dust control system shall be utilized.

- (c) RAP/FRAP and/or RAS. HMA plants utilizing RAP/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 RAP/FRAP/RAS 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 RAP/FRAP material as a percent of the total mix to the nearest 0.1 percent.
- h. Aggregate and RAP/FRAP moisture compensators in percent as set on the control panel. (Required when accumulated or individual aggregate and RAP/FRAP are printed in wet condition.)

(2) Batch Plants.

- a. Date, month, year, and time to the nearest minute for each print.

- b. HMA mix number assigned by the Department.
- c. Individual virgin aggregate hot bin batch weights to the nearest pound (kilogram).
- d. Mineral filler weight to the nearest pound (kilogram).
- f. RAP/FRAP/RAS weight to the nearest pound (kilogram).
- g. Virgin asphalt binder weight to the nearest pound (kilogram).
- h. Residual asphalt binder in the RAP/FRAP/RAS 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 in aggregate surface course (temporary access entrances only) and aggregate wedge shoulders Type B 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. (37.5 mm) sieve. The RAP material shall be reasonably well graded from coarse to fine. RAP material that is gap-graded or single sized will not be accepted."

Cook County Prevailing Wage for March 2013

(See explanation of column headings at bottom of wages)

Trade Name	RG	TYP	C	Base	FRMAN	M-F>8	OSA	OSH	H/W	Pensn	Vac	Trng
=====	==	===	=	=====	=====	=====	===	===	=====	=====	=====	=====
ASBESTOS ABT-GEN		ALL		36.200	36.700	1.5	1.5	2.0	12.78	9.020	0.000	0.500
ASBESTOS ABT-MEC		BLD		34.160	36.660	1.5	1.5	2.0	10.82	10.66	0.000	0.720
BOILERMAKER		BLD		43.450	47.360	2.0	2.0	2.0	6.970	14.66	0.000	0.350
BRICK MASON		BLD		40.680	44.750	1.5	1.5	2.0	9.550	12.00	0.000	0.970
CARPENTER		ALL		41.520	43.520	1.5	1.5	2.0	13.19	11.75	0.000	0.530
CEMENT MASON		ALL		42.350	44.350	2.0	1.5	2.0	11.21	11.40	0.000	0.320
CERAMIC TILE FNSHER		BLD		34.440	0.000	2.0	1.5	2.0	9.700	6.930	0.000	0.610
COMM. ELECT.		BLD		37.500	40.150	1.5	1.5	2.0	8.420	9.980	1.100	0.700
ELECTRIC PWR EQMT OP		ALL		43.350	48.350	1.5	1.5	2.0	10.38	13.50	0.000	0.430
ELECTRIC PWR GRNDMAN		ALL		33.810	48.350	1.5	1.5	2.0	8.090	10.53	0.000	0.330
ELECTRIC PWR LINEMAN		ALL		43.350	48.350	1.5	1.5	2.0	10.38	13.50	0.000	0.430
ELECTRICIAN		ALL		42.000	44.800	1.5	1.5	2.0	12.83	13.07	0.000	0.750
ELEVATOR CONSTRUCTOR		BLD		49.080	55.215	2.0	2.0	2.0	11.88	12.71	3.930	0.600
FENCE ERECTOR		ALL		33.740	35.740	1.5	1.5	2.0	12.61	10.18	0.000	0.250
GLAZIER		BLD		39.500	41.000	1.5	2.0	2.0	11.99	14.30	0.000	0.840
HT/FROST INSULATOR		BLD		45.550	48.050	1.5	1.5	2.0	10.82	11.86	0.000	0.720
IRON WORKER		ALL		40.750	42.750	2.0	2.0	2.0	13.20	19.09	0.000	0.350
LABORER		ALL		36.200	36.950	1.5	1.5	2.0	12.78	9.020	0.000	0.500
LATHER		ALL		41.520	43.520	1.5	1.5	2.0	13.19	11.75	0.000	0.530
MACHINIST		BLD		43.550	46.050	1.5	1.5	2.0	6.130	8.950	1.850	0.000
MARBLE FINISHERS		ALL		29.700	0.000	1.5	1.5	2.0	9.550	11.75	0.000	0.620
MARBLE MASON		BLD		39.880	43.870	1.5	1.5	2.0	9.550	11.75	0.000	0.730
MATERIAL TESTER I		ALL		26.200	0.000	1.5	1.5	2.0	12.78	9.020	0.000	0.500
MATERIALS TESTER II		ALL		31.200	0.000	1.5	1.5	2.0	12.78	9.020	0.000	0.500
MILLWRIGHT		ALL		41.520	43.520	1.5	1.5	2.0	13.19	11.75	0.000	0.530
OPERATING ENGINEER		BLD	1	45.100	49.100	2.0	2.0	2.0	15.70	10.55	1.900	1.250
OPERATING ENGINEER		BLD	2	43.800	49.100	2.0	2.0	2.0	15.70	10.55	1.900	1.250
OPERATING ENGINEER		BLD	3	41.250	49.100	2.0	2.0	2.0	15.70	10.55	1.900	1.250
OPERATING ENGINEER		BLD	4	39.500	49.100	2.0	2.0	2.0	15.70	10.55	1.900	1.250
OPERATING ENGINEER		BLD	5	48.850	49.100	2.0	2.0	2.0	15.70	10.55	1.900	1.250
OPERATING ENGINEER		BLD	6	46.100	49.100	2.0	2.0	2.0	15.70	10.55	1.900	1.250
OPERATING ENGINEER		BLD	7	48.100	49.100	2.0	2.0	2.0	15.70	10.55	1.900	1.250
OPERATING ENGINEER		FLT	1	51.300	51.300	1.5	1.5	2.0	11.70	8.050	1.900	1.150
OPERATING ENGINEER		FLT	2	49.800	51.300	1.5	1.5	2.0	11.70	8.050	1.900	1.150
OPERATING ENGINEER		FLT	3	44.350	51.300	1.5	1.5	2.0	11.70	8.050	1.900	1.150
OPERATING ENGINEER		FLT	4	36.850	51.300	1.5	1.5	2.0	11.70	8.050	1.900	1.150
OPERATING ENGINEER		HWY	1	43.300	47.300	1.5	1.5	2.0	15.70	10.55	1.900	1.250
OPERATING ENGINEER		HWY	2	42.750	47.300	1.5	1.5	2.0	15.70	10.55	1.900	1.250
OPERATING ENGINEER		HWY	3	40.700	47.300	1.5	1.5	2.0	15.70	10.55	1.900	1.250
OPERATING ENGINEER		HWY	4	39.300	47.300	1.5	1.5	2.0	15.70	10.55	1.900	1.250
OPERATING ENGINEER		HWY	5	38.100	47.300	1.5	1.5	2.0	15.70	10.55	1.900	1.250
OPERATING ENGINEER		HWY	6	46.300	47.300	1.5	1.5	2.0	15.70	10.55	1.900	1.250
OPERATING ENGINEER		HWY	7	44.300	47.300	1.5	1.5	2.0	15.70	10.55	1.900	1.250
ORNAMNTL IRON WORKER		ALL		40.800	43.300	2.0	2.0	2.0	12.86	15.61	0.000	0.500
PAINTER		ALL		40.000	44.750	1.5	1.5	1.5	9.750	11.10	0.000	0.770
PAINTER SIGNS		BLD		33.920	38.090	1.5	1.5	1.5	2.600	2.710	0.000	0.000
PILEDRIVER		ALL		41.520	43.520	1.5	1.5	2.0	13.19	11.75	0.000	0.530
PIPEFITTER		BLD		45.050	48.050	1.5	1.5	2.0	8.460	14.85	0.000	1.780
PLASTERER		BLD		40.250	42.670	1.5	1.5	2.0	10.85	10.94	0.000	0.550
PLUMBER		BLD		45.000	47.000	1.5	1.5	2.0	12.53	10.06	0.000	0.880
ROOFER		BLD		38.350	41.350	1.5	1.5	2.0	8.280	8.770	0.000	0.430
SHEETMETAL WORKER		BLD		40.810	44.070	1.5	1.5	2.0	10.13	17.79	0.000	0.630

SIGN HANGER	BLD	30.210	30.710	1.5	1.5	2.0	4.850	3.030	0.000	0.000
SPRINKLER FITTER	BLD	49.200	51.200	1.5	1.5	2.0	10.25	8.200	0.000	0.450
STEEL ERECTOR	ALL	40.750	42.750	2.0	2.0	2.0	13.20	19.09	0.000	0.350
STONE MASON	BLD	40.680	44.750	1.5	1.5	2.0	9.550	12.00	0.000	0.970
TERRAZZO FINISHER	BLD	35.510	0.000	1.5	1.5	2.0	9.700	9.320	0.000	0.400
TERRAZZO MASON	BLD	39.370	42.370	1.5	1.5	2.0	9.700	10.66	0.000	0.550
TILE MASON	BLD	41.430	45.430	2.0	1.5	2.0	9.700	8.640	0.000	0.710
TRAFFIC SAFETY WRKR	HWY	28.250	29.850	1.5	1.5	2.0	4.896	4.175	0.000	0.000
TRUCK DRIVER	E ALL 1	33.850	34.500	1.5	1.5	2.0	8.150	8.500	0.000	0.150
TRUCK DRIVER	E ALL 2	34.100	34.500	1.5	1.5	2.0	8.150	8.500	0.000	0.150
TRUCK DRIVER	E ALL 3	34.300	34.500	1.5	1.5	2.0	8.150	8.500	0.000	0.150
TRUCK DRIVER	E ALL 4	34.500	34.500	1.5	1.5	2.0	8.150	8.500	0.000	0.150
TRUCK DRIVER	W ALL 1	32.550	33.100	1.5	1.5	2.0	6.500	4.350	0.000	0.000
TRUCK DRIVER	W ALL 2	32.700	33.100	1.5	1.5	2.0	6.500	4.350	0.000	0.000
TRUCK DRIVER	W ALL 3	32.900	33.100	1.5	1.5	2.0	6.500	4.350	0.000	0.000
TRUCK DRIVER	W ALL 4	33.100	33.100	1.5	1.5	2.0	6.500	4.350	0.000	0.000
TUCKPOINTER	BLD	40.950	41.950	1.5	1.5	2.0	8.180	10.82	0.000	0.940

Legend:

RG (Region)
TYP (Trade Type - All,Highway,Building,Floating,Oil & Chip,Rivers)
C (Class)
Base (Base Wage Rate)
FRMAN (Foreman Rate)
M-F>8 (OT required for any hour greater than 8 worked each day, Mon through Fri.
OSA (Overtime (OT) is required for every hour worked on Saturday)
OSH (Overtime is required for every hour worked on Sunday and Holidays)
H/W (Health & Welfare Insurance)
Pensn (Pension)
Vac (Vacation)
Trng (Training)

Explanations

COOK COUNTY

The following list is considered as those days for which holiday rates of wages for work performed apply: New Years Day, Memorial Day, Fourth of July, Labor Day, Thanksgiving Day, Christmas Day and Veterans Day in some classifications/counties. Generally, any of these holidays which fall on a Sunday is celebrated on the following Monday. This then makes work performed on that Monday payable at the appropriate overtime rate for holiday pay. Common practice in a given local may alter certain days of celebration. If in doubt, please check with IDOL.

TRUCK DRIVERS (WEST) - That part of the county West of Barrington Road.

EXPLANATION OF CLASSES

ASBESTOS - GENERAL - removal of asbestos material/mold and hazardous materials from any place in a building, including mechanical systems where those mechanical systems are to be removed. This includes the removal of asbestos materials/mold and hazardous materials from ductwork or pipes in a building when the building is to be demolished at the time or at some close future date.

ASBESTOS - MECHANICAL - removal of asbestos material from mechanical systems, such as pipes, ducts, and boilers, where the mechanical systems are to remain.

CERAMIC TILE FINISHER

The grouting, cleaning, and polishing of all classes of tile, whether for interior or exterior purposes, all burned, glazed or unglazed products; all composition materials, granite tiles, warning detectable tiles, cement tiles, epoxy composite materials, pavers, glass, mosaics, fiberglass, and all substitute materials, for tile made in tile-like units; all mixtures in tile like form of cement, metals, and other materials that are for and intended for use as a finished floor surface, stair treads, promenade roofs, walks, walls, ceilings, swimming pools, and all other places where tile is to form a finished interior or exterior. The mixing of all setting mortars including but not limited to thin-set mortars, epoxies, wall mud, and any other sand and cement mixtures or adhesives when used in the preparation, installation, repair, or maintenance of tile and/or similar materials. The handling and unloading of all sand, cement, lime, tile, fixtures, equipment, adhesives, or any other materials to be used in the preparation, installation, repair, or maintenance of tile and/or similar materials. Ceramic Tile Finishers shall fill all joints and voids regardless of method on all tile work, particularly and especially after installation of said tile work. Application of any and all protective coverings to all types of tile installations including, but not be limited to, all soap compounds, paper products, tapes, and all polyethylene coverings, plywood, masonite, cardboard, and any new type of products that may be used to protect tile installations, Blastrac equipment, and all floor scarifying equipment used in preparing floors to receive tile. The clean up and removal of all waste and materials. All demolition of existing tile floors and walls to be re-tiled.

COMMUNICATIONS ELECTRICIAN

Installation, operation, inspection, maintenance, repair and service of radio, television, recording, voice sound vision production and reproduction, telephone and telephone interconnect, facsimile, data apparatus, coaxial, fibre optic and wireless equipment, appliances and systems used for the transmission and reception of signals of any nature, business, domestic, commercial, education, entertainment, and residential purposes, including but not limited to, communication and telephone, electronic and sound equipment, fibre optic and data communication systems, and the performance of any task directly related to such installation or service whether at new or existing sites, such tasks to include the placing of wire and cable and electrical power conduit or other raceway work within the equipment room and pulling wire and/or cable through conduit and the installation of any incidental conduit, such that the employees covered hereby can complete any job in full.

MARBLE FINISHER

Loading and unloading trucks, distribution of all materials (all stone, sand, etc.), stocking of floors with material, performing all rigging for heavy work, the handling of all material that may be needed for the installation of such materials, building of scaffolding, polishing if needed, patching, waxing of material if damaged, pointing up, caulking, grouting and cleaning of marble, holding water on diamond or Carborundum blade or saw for setters cutting, use of tub saw or any other saw needed for preparation of

material, drilling of holes for wires that anchor material set by setters, mixing up of molding plaster for installation of material, mixing up thin set for the installation of material, mixing up of sand to cement for the installation of material and such other work as may be required in helping a Marble Setter in the handling of all material in the erection or installation of interior marble, slate, travertine, art marble, serpentine, alberene stone, blue stone, granite and other stones (meaning as to stone any foreign or domestic materials as are specified and used in building interiors and exteriors and customarily known as stone in the trade), carrara, sanionyx, vitrolite and similar opaque glass and the laying of all marble tile, terrazzo tile, slate tile and precast tile, steps, risers treads, base, or any other materials that may be used as substitutes for any of the aforementioned materials and which are used on interior and exterior which are installed in a similar manner.

MATERIAL TESTER I: Hand coring and drilling for testing of materials; field inspection of uncured concrete and asphalt.

MATERIAL TESTER II: Field inspection of welds, structural steel, fireproofing, masonry, soil, facade, reinforcing steel, formwork, cured concrete, and concrete and asphalt batch plants; adjusting proportions of bituminous mixtures.

OPERATING ENGINEER - BUILDING

Class 1. Asphalt Plant; Asphalt Spreader; Autograde; Backhoes with Caisson Attachment; Batch Plant; Benoto (requires Two Engineers); Boiler and Throttle Valve; Caisson Rigs; Central Redi-Mix Plant; Combination Back Hoe Front End-loader Machine; Compressor and Throttle Valve; Concrete Breaker (Truck Mounted); Concrete Conveyor; Concrete Conveyor (Truck Mounted); Concrete Paver Over 27E cu. ft; Concrete Paver 27E cu. ft. and Under; Concrete Placer; Concrete Placing Boom; Concrete Pump (Truck Mounted); Concrete Tower; Cranes, All; Cranes, Hammerhead; Cranes, (GCI and similar Type); Creter Crane; Crusher, Stone, etc.; Derricks, All; Derricks, Traveling; Formless Curb and Gutter Machine; Grader, Elevating; Grouting Machines; Highlift Shovels or Front Endloader 2-1/4 yd. and over; Hoists, Elevators, outside type rack and pinion and similar machines; Hoists, One, Two and Three Drum; Hoists, Two Tugger One Floor; Hydraulic Backhoes; Hydraulic Boom Trucks; Hydro Vac (and similar equipment); Locomotives, All; Motor Patrol; Lubrication Technician; Manipulators; Pile Drivers and Skid Rig; Post Hole Digger; Pre-Stress Machine; Pump Cretes Dual Ram; Pump Cretes: Squeeze Cretes-Screw Type Pumps; Gypsum Bulker and Pump; Raised and Blind Hole Drill; Roto Mill Grinder; Scoops - Tractor Drawn; Slip-Form Paver; Straddle Buggies; Tournapull; Tractor with Boom and Side Boom; Trenching Machines.

Class 2. Boilers; Broom, All Power Propelled; Bulldozers; Concrete Mixer (Two Bag and Over); Conveyor, Portable; Forklift Trucks; Highlift Shovels or Front Endloaders under 2-1/4 yd.; Hoists, Automatic; Hoists, Inside Elevators; Hoists, Sewer Dragging Machine; Hoists, Tugger Single Drum; Rock Drill (Self-Propelled); Rock Drill (Truck Mounted); Rollers, All; Steam Generators; Tractors, All; Tractor Drawn Vibratory Roller; Winch Trucks with "A" Frame.

Class 3. Air Compressor; Combination Small Equipment Operator; Generators; Heaters, Mechanical; Hoists, Inside Elevators; Hydraulic

Power Units (Pile Driving, Extracting, and Drilling); Pumps, over 3" (1 to 3 not to exceed a total of 300 ft.); Low Boys; Pumps, Well Points; Welding Machines (2 through 5); Winches, 4 Small Electric Drill Winches; Bobcats (up to and including $\frac{3}{4}$ cu yd.) .

Class 4. Bobcats and/or other Skid Steer Loaders (other than bobcats up to and including $\frac{3}{4}$ cu yd.); Oilers; and Brick Forklift.

Class 5. Assistant Craft Foreman.

Class 6. Gradall.

Class 7. Mechanics.

OPERATING ENGINEERS - HIGHWAY CONSTRUCTION

Class 1. Asphalt Plant; Asphalt Heater and Planer Combination; Asphalt Heater Scarfire; Asphalt Spreader; Autograder/GOMACO or other similar type machines; ABG Paver; Backhoes with Caisson Attachment; Ballast Regulator; Belt Loader; Caisson Rigs; Car Dumper; Central Redi-Mix Plant; Combination Backhoe Front Endloader Machine, (1 cu. yd. Backhoe Bucket or over or with attachments); Concrete Breaker (Truck Mounted); Concrete Conveyor; Concrete Paver over 27E cu. ft.; Concrete Placer; Concrete Tube Float; Cranes, all attachments; Cranes, Tower Cranes of all types: Creter Crane: Crusher, Stone, etc.; Derricks, All; Derrick Boats; Derricks, Traveling; Dowell Machine with Air Compressor; Dredges; Formless Curb and Gutter Machine; Grader, Elevating; Grader, Motor Grader, Motor Patrol, Auto Patrol, Form Grader, Pull Grader, Subgrader; Guard Rail Post Driver Truck Mounted; Hoists, One, Two and Three Drum; Hydraulic Backhoes; Backhoes with shear attachments; Lubrication Technician; Manipulators; Mucking Machine; Pile Drivers and Skid Rig; Pre-Stress Machine; Pump Cretes Dual Ram; Rock Drill - Crawler or Skid Rig; Rock Drill - Truck Mounted; Rock/Track Tamper; Roto Mill Grinder; Slip-Form Paver; Soil Test Drill Rig (Truck Mounted); Straddle Buggies; Hydraulic Telescoping Form (Tunnel); Tractor Drawn Belt Loader (with attached pusher - two engineers); Tractor with Boom; Tractaire with Attachments; Trenching Machine; Truck Mounted Concrete Pump with Boom; Raised or Blind Hole Drills (Tunnel Shaft); Underground Boring and/or Mining Machines 5 ft. in diameter and over tunnel, etc; Underground Boring and/or Mining Machines under 5 ft. in diameter; Wheel Excavator; Widener (APSCO).

Class 2. Batch Plant; Bituminous Mixer; Boiler and Throttle Valve; Bulldozers; Car Loader Trailing Conveyors; Combination Backhoe Front Endloader Machine (Less than 1 cu. yd. Backhoe Bucket or over or with attachments); Compressor and Throttle Valve; Compressor, Common Receiver (3); Concrete Breaker or Hydro Hammer; Concrete Grinding Machine; Concrete Mixer or Paver 7S Series to and including 27 cu. ft.; Concrete Spreader; Concrete Curing Machine, Burlap Machine, Belting Machine and Sealing Machine; Concrete Wheel Saw; Conveyor Muck Cars (Haglund or Similar Type); Drills, All; Finishing Machine - Concrete; Highlift Shovels or Front Endloader; Hoist - Sewer Dragging Machine; Hydraulic Boom Trucks (All Attachments); Hydro-Blaster; All Locomotives, Dinky; Off-Road Hauling Units (including articulating)/2 ton capacity or more; Non Self-Loading Ejection Dump; Pump Cretes: Squeeze Cretes - Screw Type Pumps, Gypsum Bulker and Pump; Roller, Asphalt; Rotary Snow Plows; Rototiller, Seaman, etc., self-propelled;

Scoops - Tractor Drawn; Self-Propelled Compactor; Spreader - Chip - Stone, etc.; Scraper; Scraper - Prime Mover in Tandem (Regardless of Size); Tank Car Heater; Tractors, Push, Pulling Sheeps Foot, Disc, Compactor, etc.; Tug Boats.

Class 3. Boilers; Brooms, All Power Propelled; Cement Supply Tender; Compressor, Common Receiver (2); Concrete Mixer (Two Bag and Over); Conveyor, Portable; Farm-Type Tractors Used for Mowing, Seeding, etc.; Fireman on Boilers; Forklift Trucks; Grouting Machine; Hoists, Automatic; Hoists, All Elevators; Hoists, Tugger Single Drum; Jeep Diggers; Low Boys; Pipe Jacking Machines; Post-Hole Digger; Power Saw, Concrete Power Driven; Pug Mills; Rollers, other than Asphalt; Seed and Straw Blower; Steam Generators; Stump Machine; Winch Trucks with "A" Frame; Work Boats; Tamper-Form-Motor Driven.

Class 4. Air Compressor; Combination - Small Equipment Operator; Directional Boring Machine; Generators; Heaters, Mechanical; Hydraulic Power Unit (Pile Driving, Extracting, or Drilling); Hydro- Blaster; Light Plants, All (1 through 5); Pumps, over 3" (1 to 3 not to exceed a total of 300 ft.); Pumps, Well Points; Tractaire; Welding Machines (2 through 5); Winches, 4 Small Electric Drill Winches.

Class 5. Bobcats (all); Brick Forklifts; Oilers.

Class 6. Field Mechanics and Field Welders

Class 7. Gradall and machines of like nature.

OPERATING ENGINEER - FLOATING

Class 1. Craft Foreman; Diver/Wet Tender; and Engineer (hydraulic dredge).

Class 2. Crane/Backhoe Operator; 70 Ton or over Tug Operator; Mechanic/Welder; Assistant Engineer (Hydraulic Dredge); Leverman (Hydraulic Dredge); Diver Tender; Friction and Lattice Boom Cranes.

Class 3. Deck Equipment Operator, Machineryman; Maintenance of Crane (over 50 ton capacity); Tug/Launch Operator; Loader/Dozer and like equipment on Barge; and Deck Machinery, etc.

Class 4. Deck Equipment Operator, Machineryman/Fireman (4 Equipment Units or More); Off Road Trucks (2 ton capacity or more); Deck Hand, Tug Engineer, Crane Maintenance 50 Ton Capacity and Under or Backhoe Weighing 115,000 pounds or less; and Assistant Tug Operator.

TERRAZZO FINISHER

The handling of sand, cement, marble chips, and all other materials that may be used by the Mosaic Terrazzo Mechanic, and the mixing, grinding, grouting, cleaning and sealing of all Marble, Mosaic, and Terrazzo work, floors, base, stairs, and wainscoting by hand or machine, and in addition, assisting and aiding Marble, Masonic, and Terrazzo Mechanics.

TRAFFIC SAFETY

Work associated with barricades, horses and drums used to reduce lane usage on highway work, the installation and removal of temporary lane

markings, and the installation and removal of temporary road signs.

TRUCK DRIVER - BUILDING, HEAVY AND HIGHWAY CONSTRUCTION - EAST & WEST

Class 1. Two or three Axle Trucks. A-frame Truck when used for transportation purposes; Air Compressors and Welding Machines, including those pulled by cars, pick-up trucks and tractors; Ambulances; Batch Gate Lockers; Batch Hopperman; Car and Truck Washers; Carry-alls; Fork Lifts and Hoisters; Helpers; Mechanics Helpers and Greasers; Oil Distributors 2-man operation; Pavement Breakers; Pole Trailer, up to 40 feet; Power Mower Tractors; Self-propelled Chip Spreader; Skipman; Slurry Trucks, 2-man operation; Slurry Truck Conveyor Operation, 2 or 3 man; Teamsters; Unskilled Dumpman; and Truck Drivers hauling warning lights, barricades, and portable toilets on the job site.

Class 2. Four axle trucks; Dump Crets and Adgetors under 7 yards; Dumpsters, Track Trucks, Euclids, Hug Bottom Dump Turnapulls or Turnatrailers when pulling other than self-loading equipment or similar equipment under 16 cubic yards; Mixer Trucks under 7 yards; Ready-mix Plant Hopper Operator, and Winch Trucks, 2 Axles.

Class 3. Five axle trucks; Dump Crets and Adgetors 7 yards and over; Dumpsters, Track Trucks, Euclids, Hug Bottom Dump Turnatrailers or turnapulls when pulling other than self-loading equipment or similar equipment over 16 cubic yards; Explosives and/or Fission Material Trucks; Mixer Trucks 7 yards or over; Mobile Cranes while in transit; Oil Distributors, 1-man operation; Pole Trailer, over 40 feet; Pole and Expandable Trailers hauling material over 50 feet long; Slurry trucks, 1-man operation; Winch trucks, 3 axles or more; Mechanic--Truck Welder and Truck Painter.

Class 4. Six axle trucks; Dual-purpose vehicles, such as mounted crane trucks with hoist and accessories; Foreman; Master Mechanic; Self-loading equipment like P.B. and trucks with scoops on the front.

Other Classifications of Work:

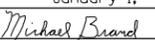
For definitions of classifications not otherwise set out, the Department generally has on file such definitions which are available. If a task to be performed is not subject to one of the classifications of pay set out, the Department will upon being contacted state which neighboring county has such a classification and provide such rate, such rate being deemed to exist by reference in this document. If no neighboring county rate applies to the task, the Department shall undertake a special determination, such special determination being then deemed to have existed under this determination. If a project requires these, or any classification not listed, please contact IDOL at 217-782-1710 for wage rates or clarifications.

LANDSCAPING

Landscaping work falls under the existing classifications for laborer, operating engineer and truck driver. The work performed by landscape plantsman and landscape laborer is covered by the existing classification of laborer. The work performed by landscape operators (regardless of equipment used or its size) is covered by the classifications of operating engineer. The work performed by

landscape truck drivers (regardless of size of truck driven) is covered by the classifications of truck driver.

ABV	ABOVE	CU YD	CUBIC YARD	HD	HEAD	PED	PEDESTAL	STD	STANDARD
A/C	ACCESS CONTROL	CULV	CULVERT	HDW	HEADWALL	PNT	POINT	SBI	STATE BOND ISSUE
AC	ACRE	C&G	CURB & GUTTER	HDUTY	HEAVY DUTY	PC	POINT OF CURVATURE	SR	STATE ROUTE
ADJ	ADJUST	D	DEGREE OF CURVE	ha	HECTARE	PI	POINT OF INTERSECTION OF HORIZONTAL CURVE	STA	STATION
AS	AERIAL SURVEYS	DC	DEPRESSED CURVE	HMA	HOT MIX ASPHALT			SPBGR	STEEL PLATE BEAM GUARDRAIL
AGG	AGGREGATE	DET	DETECTOR	HWY	HIGHWAY	PRC	POINT OF REVERSE CURVE	SS	STORM SEWER
AH	AHEAD	DIA	DIAMETER	HORIZ	HORIZONTAL	PT	POINT OF TANGENCY	STY	STORY
APT	APARTMENT	DIST	DISTRICT	HSE	HOUSE	POT	POINT ON TANGENT	ST	STREET
ASPH	ASPHALT	DOM	DOMESTIC	IL	ILLINOIS	POLYETH	POLYETHYLENE	STR	STRUCTURE
AUX	AUXILIARY	DBL	DOUBLE	IMP	IMPROVEMENT	PCC	PORTLAND CEMENT CONCRETE	e	SUPERELEVATION RATE
AGS	AUXILIARY GAS VALVE (SERVICE)	DSEL	DOWNSTREAM ELEVATION	IN DIA	INCH DIAMETER	PP	POWER POLE OR PRINCIPAL POINT	S.E. RUN.	SUPERELEVATION RUNOFF LENGTH
AVE	AVENUE	DSFL	DOWNSTREAM FLOWLINE	INL	INLET	PRM	PRIME	SURF	SURFACE
AX	AXIS OF ROTATION	DR	DRAINAGE OR DRIVE	INST	INSTALLATION	PE	PRIVATE ENTRANCE	SMK	SURVEY MARKER
BK	BACK	DI	DRAINAGE INLET OR DROP INLET	IDS	INTERSECTION DESIGN STUDY	PROF	PROFILE	T	TANGENT DISTANCE
B-B	BACK TO BACK	DRV	DRIVEWAY	INV	INVERT	PGL	PROFILE GRADELINE	T.R.	TANGENT RUNOUT DISTANCE
BKPL	BACKPLATE	DCT	DUCT	IP	IRON PIPE	PROJ	PROJECT	TEL	TELEPHONE
B	BARN	EA	EACH	IR	IRON ROD	P.C.	PROPERTY CORNER	TB	TELEPHONE BOX
BARR	BARRICADE	EB	EASTBOUND	JT	JOINT	PL	PROPERTY LINE	TP	TELEPHONE POLE
BGN	BEGIN	EOP	EDGE OF PAVEMENT	kg	KILOGRAM	PR	PROPOSED	TEMP	TEMPORARY
BM	BENCHMARK	E-CL	EDGE TO CENTERLINE	km	KILOMETER	R	RADIUS	TBM	TEMPORARY BENCH MARK
BIND	BINDER	E-E	EDGE TO EDGE	LS	LANDSCAPING	RR	RAILROAD	TD	TILE DRAIN
BIT	BITUMINOUS	EL	ELEVATION	LN	LANE	RRS	RAILROAD SPIKE	TBE	TO BE EXTENDED
BTM	BOTTOM	ENTR	ENTRANCE	LT	LEFT	RPS	REFERENCE POINT STAKE	TBR	TO BE REMOVED
BLVD	BOULEVARD	EXC	EXCAVATION	LP	LIGHT POLE	REF	REFLECTIVE	TBS	TO BE SAVED
BRK	BRICK	EX	EXISTING	LGT	LIGHTING	RCCP	REINFORCED CONCRETE CULVERT PIPE	TWP	TOWNSHIP
BBOX	BUFFALO BOX	EXPWAY	EXPRESSWAY	LF	LINEAL FEET OR LINEAR FEET	REINF	REINFORCEMENT	TR	TOWNSHIP ROAD
BLDG	BUILDING	E	EXTERNAL DISTANCE OF HORIZONTAL CURVE	L	LITER OR CURVE LENGTH	REM	REMOVAL	TS	TRAFFIC SIGNAL
CIP	CAST IRON PIPE	E	OFFSET DISTANCE TO VERTICAL CURVE	LC	LONG CHORD	RC	REMOVE CROWN	TSCB	TRAFFIC SIGNAL CONTROL BOX
CB	CATCH BASIN	F-F	FACE TO FACE	LNG	LONGITUDINAL	REP	REPLACEMENT	TSC	TRAFFIC SYSTEMS CENTER
C-C	CENTER TO CENTER	FA	FEDERAL AID	L SUM	LUMP SUM	REST	RESTAURANT	TRVS	TRANSVERSE
CL	CENTERLINE OR CLEARANCE	FAI	FEDERAL AID INTERSTATE	MACH	MACHINE	RESURF	RESURFACING	TRVL	TRAVEL
CL-E	CENTERLINE TO EDGE	FAP	FEDERAL AID PRIMARY	MB	MAIL BOX	RET	RETAINING	TRN	TURN
CL-F	CENTERLINE TO FACE	FAS	FEDERAL AID SECONDARY	MH	MANHOLE	RT	RIGHT	TY	TYPE
CTS	CENTERS	FAUS	FEDERAL AID URBAN SECONDARY	MATL	MATERIAL	ROW	RIGHT-OF-WAY	T-A	TYPE A
CERT	CERTIFIED	FP	FENCE POST	MED	MATERIAL	RD	ROAD	TYP	TYPICAL
CHSLD	CHISELED	FE	FIELD ENTRANCE	m	METER	RDWY	ROADWAY	UNDGND	UNDERGROUND
CS	CITY STREET	FH	FIRE HYDRANT	METH	METHOD	RTE	ROUTE	USGS	U.S. GEOLOGICAL SURVEY
CP	CLAY PIPE	FL	FLOW LINE	M	MID-ORDINATE	SAN	SANITARY	USEL	UPSTREAM ELEVATION
CLSD	CLOSED	FB	FOOT BRIDGE	mm	MILLIMETER	SANS	SANITARY SEWER	USFL	UPSTREAM FLOWLINE
CLID	CLOSED LID	FDN	FOUNDATION	mm DIA	MILLIMETER DIAMETER	SEC	SECTION	UTIL	UTILITY
CT	COAT OR COURT	FR	FRAME	MIX	MIXTURE	SEED	SEEDING	VBOX	VALVE BOX
COMB	COMBINATION	F&G	FRAME & GRATE	MBH	MOBILE HOME	SHAP	SHAPING	VV	VALVE VAULT
C	COMMERCIAL BUILDING	FRWAY	FREEWAY	MOD	MODIFIED	S	SHED	VL	VAULT
CE	COMMERCIAL ENTRANCE	GAL	GALLON	MFT	MOTOR FUEL TAX	SH	SHEET	VEH	VEHICLE
CONC	CONCRETE	GALV	GALVANIZED	N & BC	NAIL & BOTTLE CAP	SHLD	SHOULDER	VP	VENT PIPE
CONST	CONSTRUCT	G	GARAGE	N & C	NAIL & CAP	SW	SIDEWALK OR SOUTHWEST	VERT	VERTICAL
CONTD	CONTINUED	GM	GAS METER	N & W	NAIL & WASHER	SIG	SIGNAL	VC	VERTICAL CURVE
CONT	CONTINUOUS	GV	GAS VALVE	NOAA	NATIONAL OCEANIC ATMOSPHERIC ADMINISTRATION	SOD	SODDING	VPC	VERTICAL POINT OF CURVATURE
COR	CORNER	GRAN	GRANULAR	NC	NORMAL CROWN	SM	SOLID MEDIUM	VPI	VERTICAL POINT OF INTERSECTION
CORR	CORRUGATED	GR	GRATE	NB	NORTHBOUND	SB	SOUTHBOUND	VPT	VERTICAL POINT OF TANGENCY
CMP	CORRUGATED METAL PIPE	GRVL	GRAVEL	NE	NORTHEAST	SE	SOUTHEAST	WM	WATER METER
CNTY	COUNTY	GND	GROUND	NW	NORTHWEST	SPL	SPECIAL	WV	WATER VALVE
CH	COUNTY HIGHWAY	GUT	GUTTER	OLID	OPEN LID	SD	SPECIAL DITCH	WMAIN	WATER MAIN
CSE	COURSE	GP	GUY POLE	PAT	PATTERN	SQ FT	SQUARE FEET	WB	WESTBOUND
XSECT	CROSS SECTION	GW	GUY WIRE	PVD	PAVED	m ²	SQUARE METER	WILDFL	WILDFLOWERS
m ³	CUBIC METER	HH	HANDHOLE	PVMT	PAVEMENT	mm ²	SQUARE MILLIMETER	W	WITH
mm ³	CUBIC MILLIMETER	HATCH	HATCHING	PM	PAVEMENT MARKING	SQ YD	SQUARE YARD	WO	WITHOUT

 Illinois Department of Transportation	
PASSED	January 1, 2011
 ENGINEER OF POLICY AND PROCEDURES	
APPROVED	January 1, 2011
 ENGINEER OF DESIGN AND ENVIRONMENT	

ISSUED 1-1-97

DATE	REVISIONS
1-1-11	Updated abbreviations and symbols.
1-1-08	Updated abbreviations and symbols.

STANDARD SYMBOLS, ABBREVIATIONS AND PATTERNS

(Sheet 1 of 8)

STANDARD 000001-06

<u>ADJUSTMENT ITEMS</u>			<u>ALIGNMENT ITEMS</u>			<u>CONTOUR ITEMS</u>		
	<u>EX</u>	<u>PR</u>		<u>EX</u>	<u>PR</u>		<u>EX</u>	<u>PR</u>
Structure To Be Adjusted		ADJ	Baseline			Approx. Index Line		
Structure To Be Cleaned		C	Centerline			Approx. Intermediate Line		
Main Structure To Be Filled		FM	Centerline Break Circle			Index Contour		
Structure To Be Filled		F	Baseline Symbol			Intermediate Contour		
Structure To Be Filled Special		FSP	Centerline Symbol			<u>DRAINAGE ITEMS</u>		
Structure To Be Removed		R	PI Indicator			Channel or Stream Line		
Structure To Be Reconstructed		REC	Point Indicator			Culvert Line		
Structure To Be Reconstructed Special		RSP	Horizontal Curve Data (Half Size)	CURVE P.I. STA= Δ= D= R= T= L= E= e= T.R.= S.E. RUN= P.C. STA= P.T. STA=	CURVE P.I. STA= Δ= D= R= T= L= E= e= T.R.= S.E. RUN= P.C. STA= P.T. STA=	Grading & Shaping Ditches		
Frame and Grate To Be Adjusted		A	<u>BOUNDARIES ITEMS</u>					
Frame and Lid To Be Adjusted		A	Dashed Property Line			Drainage Boundary Line		
Domestic Service Box To Be Adjusted		A	Solid Property/Lot Line			Paved Ditch		
Valve Vault To Be Adjusted		A	Section/Grant Line			Aggregate Ditch		
Special Adjustment		SP	Quarter Section Line			Pipe Underdrain		
Item To Be Abandoned		AB	Quarter/Quarter Section Line			Storm Sewer		
Item To Be Moved		M	County/Township Line			Flowline		
Item To Be Relocated		REL	State Line			Ditch Check		
Pavement Removal and Replacement			Iron Pipe Found			Headwall		
			Iron Pipe Set			Inlet		
			Survey Marker			Manhole		
			Property Line Symbol			Summit		
			Same Ownership Symbol (Half Size)			Roadway Ditch Flow		
			Northwest Quarter Corner (Half Size)			Swale		
			Section Corner (Half Size)			Catch Basin		
			Southeast Quarter Corner (Half Size)			Culvert End Section		
						Water Surface Indicator		
						Riprap		

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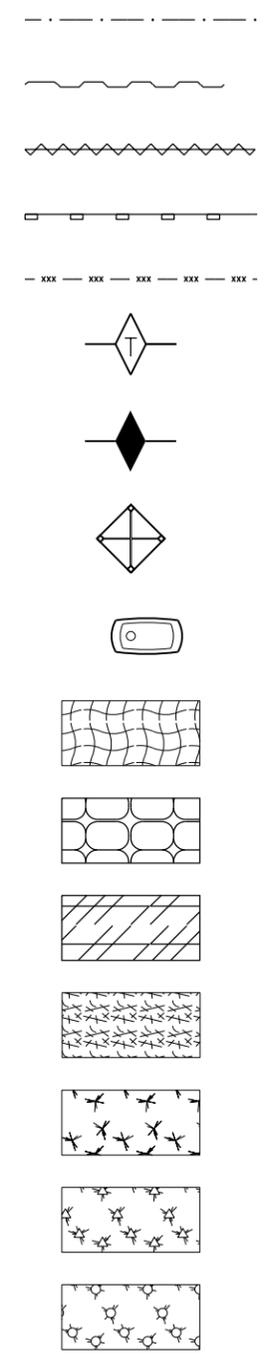
**STANDARD SYMBOLS,
 ABBREVIATIONS
 AND PATTERNS**
 (Sheet 2 of 8)
STANDARD 00001-06

EROSION & SEDIMENT CONTROL ITEMS

EX

PR

- Cleaning & Grading Limits
- Dike
- Erosion Control Fence
- Perimeter Erosion Barrier
- Temporary Fence
- Ditch Check Temporary
- Ditch Check Permanent
- Inlet & Pipe Protection
- Sediment Basin
- Erosion Control Blanket
- Fabric Formed Concrete Revetment Mat
- Turf Reinforcement Mat
- Mulch Temporary
- Mulch Method 1
- Mulch Method 2 Stabilized
- Mulch Method 3 Hydraulic

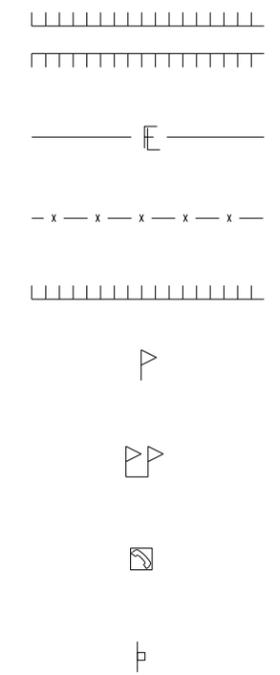


NON-HIGHWAY IMPROVEMENT ITEMS

EX

PR

- Noise Attn./Levee
- Field Line
- Fence
- Base of Levee
- Mailbox
- Multiple Mailboxes
- Pay Telephone
- Advertising Sign

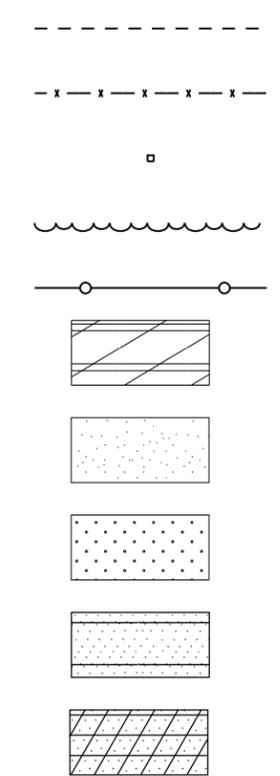


LANDSCAPING ITEMS

EX

PR

- Contour Mounding Line
- Fence
- Fence Post
- Shrubs
- Mowline
- Perennial Plants
- Seeding Class 2
- Seeding Class 2A
- Seeding Class 4
- Seeding Class 4 & 5 Combined

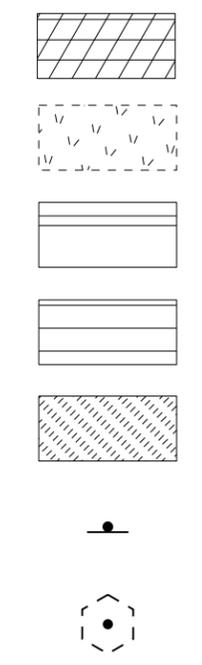


EXISTING LANDSCAPING ITEMS (contd.)

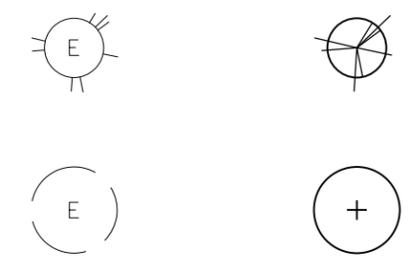
EX

PR

- Seeding Class 5
- Seeding Class 7
- Seedlings Type 1
- Seedlings Type 2
- Sodding
- Mowstake w/Sign
- Tree Trunk Protection



- Evergreen Tree
- Shade Tree

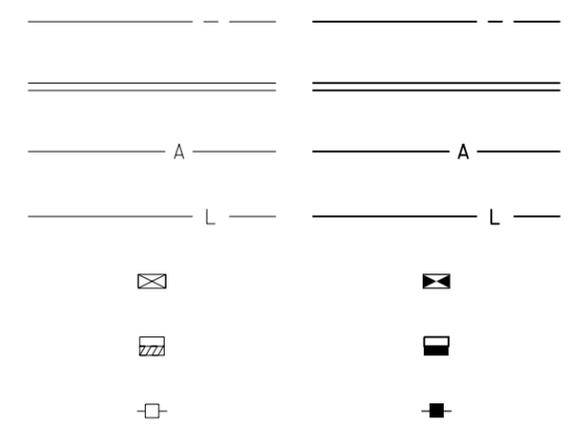


LIGHTING

EX

PR

- Duct
- Conduit
- Electrical Aerial Cable
- Electrical Buried Cable
- Controller
- Underpass Luminaire
- Power Pole



STANDARD SYMBOLS, ABBREVIATIONS AND PATTERNS

(Sheet 3 of 8)

STANDARD 000001-06

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LIGHTING
(contd.)

EX

PR

Pull Point



Handhole



Heavy Duty Handhole



Junction Box



Light Unit Comb.



Electrical Ground



Traffic Flow Arrow



High Mast Pole
(Half Size)



Light Unit-1



PAVEMENT (MISC.)

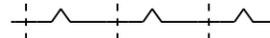
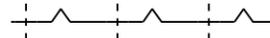
EX

PR

Keyed Long. Joint



Keyed Long. Joint w/Tie Bars



Sawed Long. Joint w/Tie Bars



Bituminous Shoulder



Bituminous Taper



Stabilized Driveway



Widening



PAVEMENT MARKINGS

EX

PR

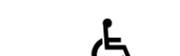
Bike Lane Symbol



Bike Lane Text



Handicap Symbol



RR Crossing



Raised Marker Amber 1 Way



Raised Marker Amber 2 Way



Raised Marker Crystal 1 Way



Two Way Turn Left



Shoulder Diag. Pattern



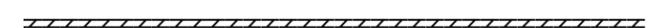
Skip-Dash White



Skip-Dash Yellow



Stop Line



Solid Line



Double Centerline



Dotted Lines



CL 2Ln 2Way
RRPM 12.2 m (40') o.c.



CL 2Ln 2Way
RRPM 80' (24.4 m) o.c.



CL Multilane Div.
RRPM 40' (12.2 m) o.c.



CL Multilane Div.
RRPM 80' (24.4 m) o.c.



CL Multilane Div. Dbl.
RRPM 80' (24.4 m) o.c.



CL Multilane Undiv.



Two Way Turn Left Line



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**STANDARD SYMBOLS,
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AND PATTERNS**
 (Sheet 4 of 8)

STANDARD 000001-06

PAVEMENT MARKINGS

(contd.)

Urban Combination Left

EX



PR



Urban Combination Right



Urban Left Turn Arrow



Urban Right Turn Arrow



Urban Left Turn Only



ONLY ONLY ONLY



Urban Right Turn Only



Urban Thru Only



Urban U-Turn



Urban Combined U-Turn



Rural Combination Left



Rural Combination Right



Rural Left Turn Arrow



Rural Right Turn Arrow



Rural Left Turn Only



ONLY ONLY ONLY



Rural Right Turn Only



ONLY ONLY ONLY



Rural Thru Only



ONLY ONLY ONLY



RAILROAD ITEMS

EX

PR

Abandoned Railroad



Railroad



Railroad Point



Control Box



Crossing Gate



Flashing Signal



Railroad Cant. Mast Arm



Crossbuck



REMOVAL ITEMS

EX

PR

Removal Tic



Bituminous Removal



Hatch Pattern



Tree Removal Single



RIGHT OF WAY ITEMS

EX

PR

Future ROW Corner Monument



ROW Marker



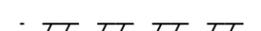
ROW Line



Easement



Temporary Easement



**STANDARD SYMBOLS,
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RIGHT OF WAY ITEMS
(contd.)

	EX	PR
Access Control Line	— AC —————	— AC —————
Access Control Line & ROW	— AC —————	— AC —————
Access Control Line & ROW with Fence	— x ————— AR —	— x — AC — x —
Excess ROW Line		— XS —————

ROADWAY PLAN
ITEMS

	EX	PR
Cable Barrier		
Concrete Barrier		
Edge of Pavement	-----	-----
Bit Shoulders, Medians and C&G Line	-----	-----
Aggregate Shoulder	-----	-----
Sidewalks, Driveways	-----	-----
Guardrail		
Guardrail Post	□	
Traffic Sign		
Corrugated Median		
Impact Attenuator		
North Arrow with District Office (Half Size)		
Match Line		STA. 45+00
Slope Limit Line	-----	
Typical Cross-Section Line	-----	-----

ROADWAY PROFILES

	EX	PR
P.I. Indicator	△	△
Point Indicator	○	○
Earthworks Balance Point		
Begin Point		
Vert. Curve Data	VPI = ELEV = L = E =	VPI = ELEV = L = E =
Ditch Profile Left Side	-----	-----
Ditch Profile Right Side	-----	-----
Roadway Profile Line	-----	-----
Storm Sewer Profile Left Side	-----	-----
Storm Sewer Profile Right Side	-----	-----

SIGNING ITEMS

	EX	PR
Cone, Drum or Barricade		○
Barricade Type II		
Barricade Type III		
Barricade With Edge Line		
Flashing Light Sign		○
Panels I		
Panels II		
Direction of Traffic		
Sign Flag (Half Size)		

SIGNING ITEMS
(contd.)

	EX	PR
Reverse Left W1-4L (Half Size)		
Reverse Right W1-4R (Half Size)		
Two Way Traffic Sign W6-3 (Half Size)		
Detour Ahead W20-2(0) (Half Size)		
Left Lane Closed Ahead W20-5L(0) (Half Size)		
Right Lane Closed Ahead W20-5R(0) (Half Size)		
Road Closed Ahead W20-3(0) (Half Size)		
Road Construction Ahead W20-1(0) (Half Size)		
Single Lane Ahead (Half Size)		
Transition Left W4-2L (Half Size)		
Transition Right W4-2R (Half Size)		

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**STANDARD SYMBOLS,
ABBREVIATIONS
AND PATTERNS**

(Sheet 6 of 8)

STANDARD 000001-06

SIGNING ITEMS
(contd.)

EX

PR

One Way Arrow Lrg. W1-6-(0)
(Half Size)



Two Way Arrow Large W1-7-(0)
(Half Size)



Detour M4-10L-(0)
(Half Size)



Detour M4-10R-(0)
(Half Size)



One Way Left R6-1L
(Half Size)



One Way Right R6-1R
(Half Size)



Left Turn Lane R3-1100L
(Half Size)



Keep Left R4-7AL
(Half Size)



Keep Left R4-7BL
(Half Size)



Keep Right R4-7AR
(Half Size)



Keep Right R4-7BR
(Half Size)



Stop Here On Red R10-6-AL
(Half Size)



Stop Here On Red R10-6-AR
(Half Size)



No Left Turn R3-2
(Half Size)



No Right Turn R3-1
(Half Size)



Road Closed R11-2
(Half Size)



Road Closed Thru Traffic R11-2
(Half Size)



STRUCTURES ITEMS

EX

PR

Box Culvert Barrel



Box Culvert Headwall



Bridge Pier



Bridge



Retaining Wall



Temporary Sheet Piling



TRAFFIC SHEET
ITEMS

EX

PR

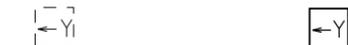
Cable Number



Left Turn Green



Left Turn Yellow



Signal Backplate



Signal Section 8" (200 mm)



Signal Section 12" (300 mm)



Walk/Don't Walk Letters



Walk/Don't Walk Symbols



TRAFFIC SIGNAL
ITEMS

EX

PR

Galv. Steel Conduit



Underground Cable



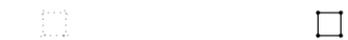
Detector Loop Line



Detector Loop Large



Detector Loop Small



Detector Loop Quadrapole



STANDARD SYMBOLS,
ABBREVIATIONS
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(Sheet 7 of 8)

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**TRAFFIC SIGNAL
ITEMS (contd.)**

EX

PR

Detector Raceway



Aluminum Mast Arm



Steel Mast Arm



Veh. Detector Magnetic



Conduit Splice



Controller



Gulfbox Junction



Wood Pole



Temp. Signal Head



Handhole



Double Handhole



Heavy Duty Handhole



Junction Box



Ped. Pushbutton Detector



Ped. Signal Head



Power Pole Service



Priority Veh. Detector



Signal Head



Signal Head w/Backplate



Signal Post



Closed Circuit TV



Video Detector System



**UNDERGROUND
UTILITY ITEMS**

EX

PR

ABANDONED

Cable TV



Electric Cable



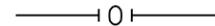
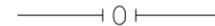
Fiber Optic



Gas Pipe



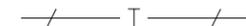
Oil Pipe



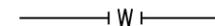
Sanitary Sewer



Telephone Cable



Water Pipe



UTILITIES ITEMS

EX

PR

Controller



Double Handhole



Fire Hydrant



GuyWire or Deadman Anchor



Handhole



Heavy Duty Handhole



Junction Box



Light Pole



Manhole



Pipeline Warning Sign



Power Pole



Power Pole with Light



Sanitary Sewer Cleanout



Splice Box Above Ground



Telephone Splice Box
Above Ground



Telephone Pole



**UTILITY ITEMS
(contd.)**

EX

PR

Traffic Signal



Traffic Signal Control Box



Water Meter



Water Meter Valve Box



Profile Line



Aerial Power Line



VEGETATION ITEMS

EX

PR

Deciduous Tree



Bush or Shrub



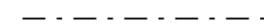
Evergreen Tree



Stump



Orchard/Nursery Line



Vegetation Line



Woods & Bush Line



**WATER FEATURE
ITEMS**

EX

PR

Stream or Drainage Ditch



Waters Edge



Water Surface Indicator



Water Point



Disappearing Ditch



Marsh



Marsh/Swamp Boundary



**STANDARD SYMBOLS,
ABBREVIATIONS
AND PATTERNS**

(Sheet 8 of 8)

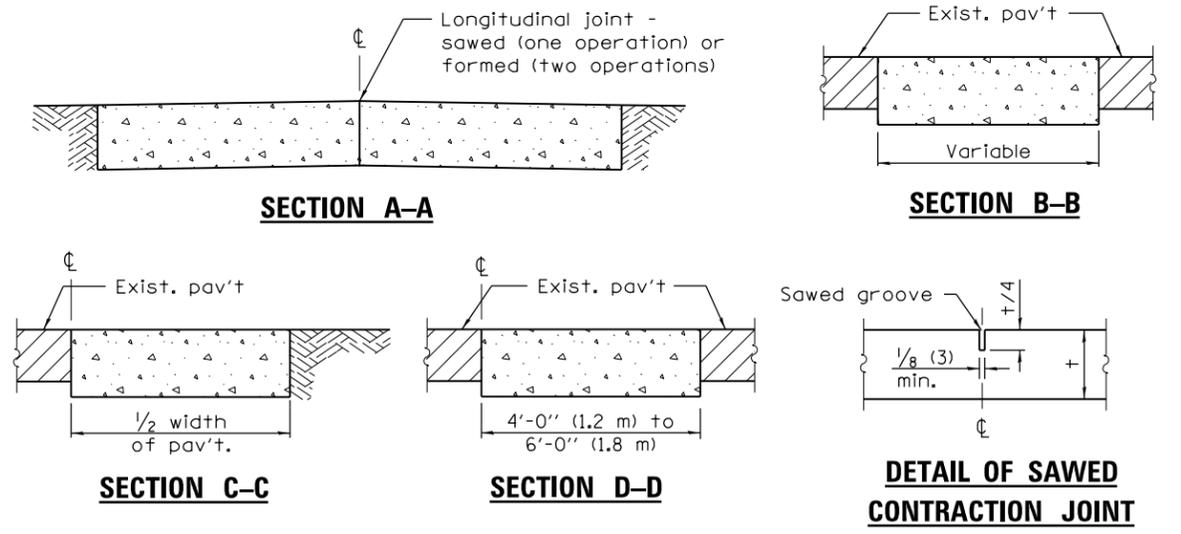
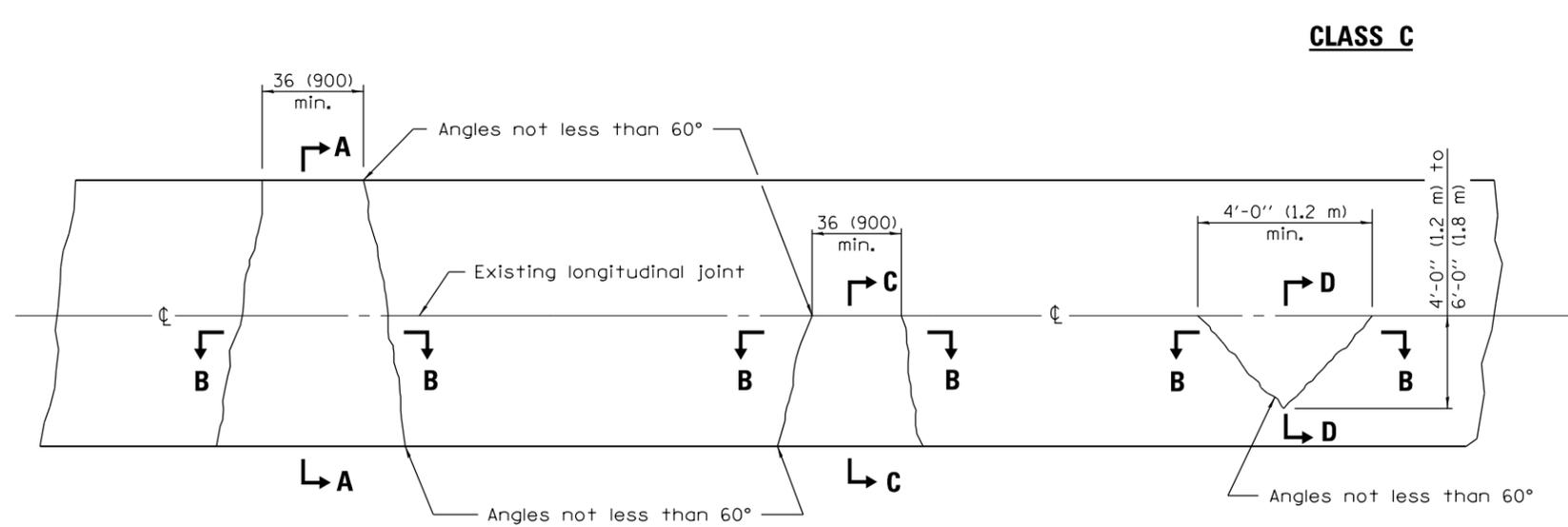
STANDARD 000001-06

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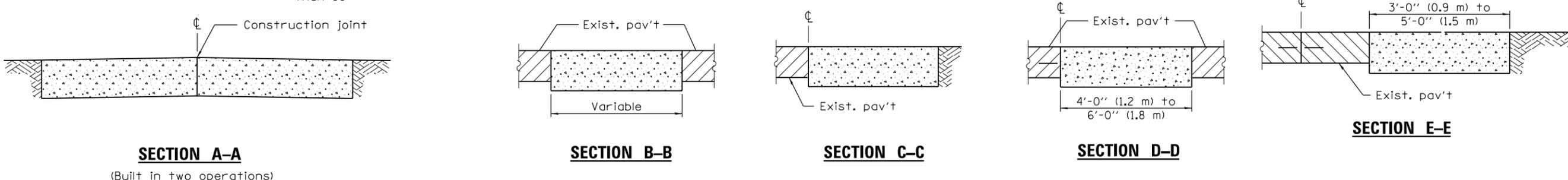
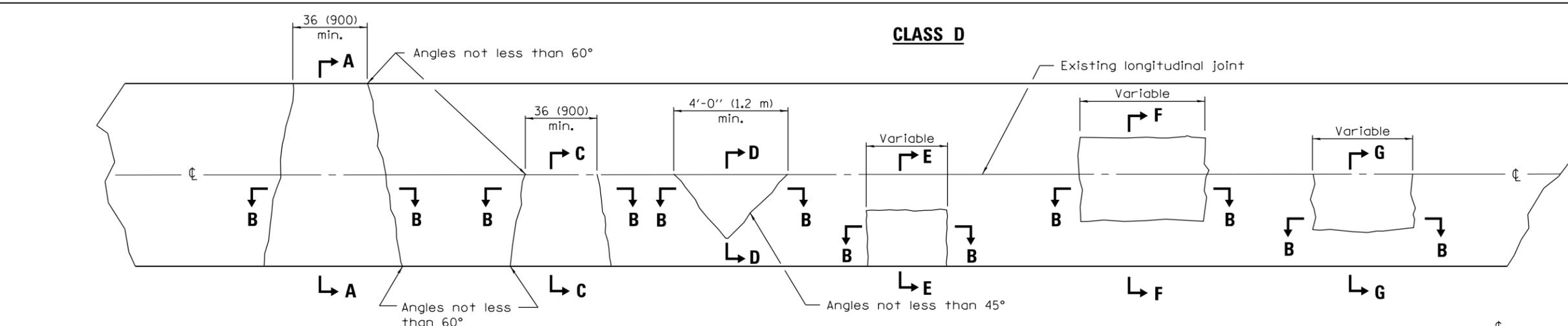
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Michael Beard
 ENGINEER OF POLICY AND PROCEDURES

APPROVED January 1, 2011
Scott Schick
 ENGINEER OF DESIGN AND ENVIRONMENT

ISSUED 1-1-97



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



GENERAL NOTES

Existing tie bars shall be either cut or removed. Marginal bars shall be cut.

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

Illinois Department of Transportation

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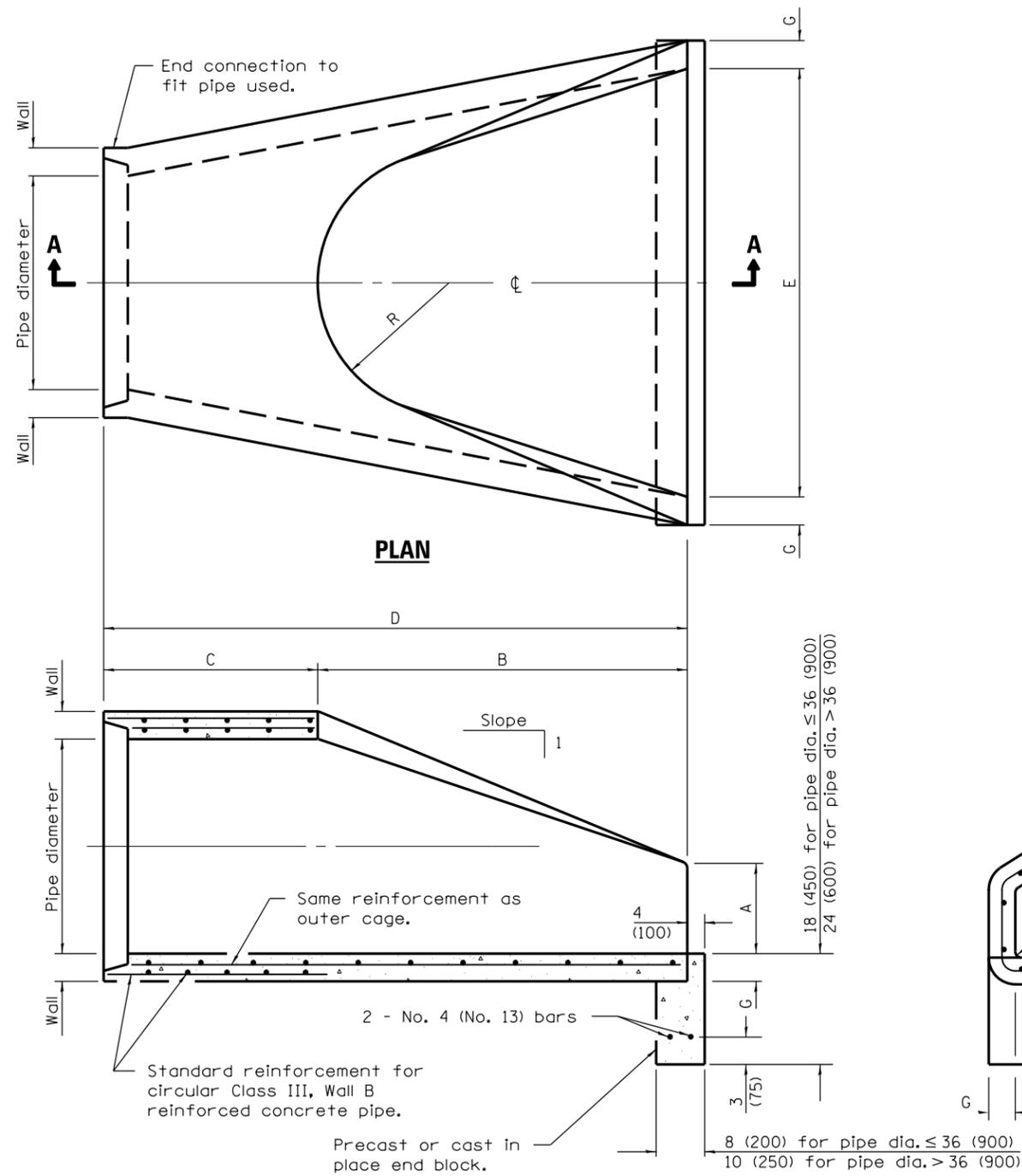
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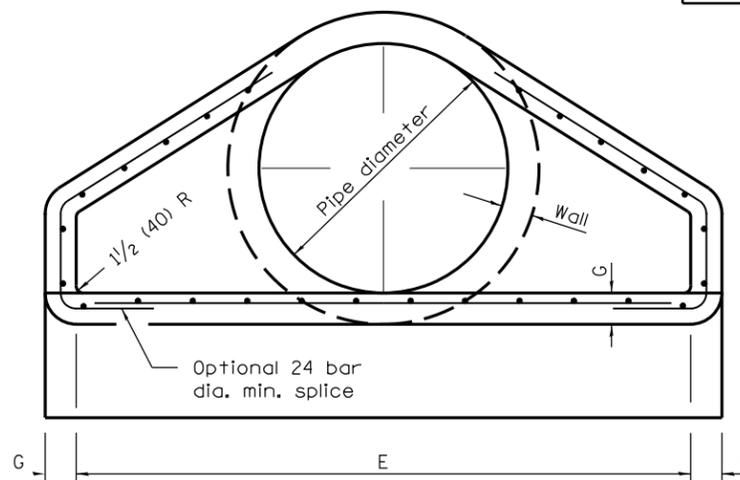
DATE	REVISIONS
1-1-08	Switched units to English (metric).
1-1-07	Revised Note for Class C patches.

CLASS C and D PATCHES

STANDARD 442201-03



SECTION A-A



END VIEW

PIPE DIA.	APPROX. QTY. lbs. (kg)	WALL	A	B	C	D	E	G	R	APPROX. SLOPE
12 (300)	530 (240)	2 (51)	4 (102)	24 (610)	4'-0 7/8" (1.241 m)	6'-0 7/8" (1.851 m)	24 (610)	2 (51)	9 (229)	1:2.4
15 (375)	740 (335)	2 1/4 (57)	6 (152)	27 (686)	3'-10" (1.168 m)	6'-1" (1.854 m)	30 (762)	2 1/4 (57)	11 (280)	1:2.4
18 (450)	990 (450)	2 1/2 (64)	9 (229)	27 (686)	3'-10" (1.168 m)	6'-1" (1.854 m)	36 (914)	2 1/2 (64)	12 (305)	1:2.4
21 (525)	1280 (580)	2 3/4 (70)	9 (229)	35 (889)	38 (965)	6'-1" (1.854 m)	3'-6" (1.067 m)	2 3/4 (70)	13 (330)	1:2.4
24 (600)	1520 (690)	3 (76)	9 1/2 (241)	3'-7 1/2" (1.105 m)	30 (762)	6'-1 1/2" (1.867 m)	4'-0" (1.219 m)	3 (76)	14 (356)	1:2.5
27 (675)	1930 (875)	3 1/4 (83)	10 1/2 (267)	4'-0" (1.219 m)	25 1/2 (648)	6'-1 1/2" (1.867 m)	4'-6" (1.372 m)	3 1/4 (83)	14 1/2 (368)	1:2.4
30 (750)	2190 (995)	3 1/2 (89)	12 (305)	4'-6" (1.375 m)	19 3/4 (502)	6'-1 3/4" (1.874 m)	5'-0" (1.524 m)	3 1/2 (89)	15 (381)	1:2.5
33 (825)	3200 (1450)	3 3/4 (95)	13 1/2 (343)	4'-10 1/2" (1.486 m)	39 1/4 (997)	8'-1 3/4" (2.483 m)	5'-6" (1.676 m)	3 3/4 (95)	17 1/2 (445)	1:2.5
36 (900)	4100 (1860)	4 (102)	15 (381)	5'-3" (1.6 m)	34 3/4 (883)	8'-1 3/4" (2.483 m)	6'-0" (1.829 m)	4 (102)	20 (508)	1:2.5
42 (1050)	5380 (2440)	4 1/2 (114)	21 (533)	5'-3" (1.6 m)	35 (889)	8'-2" (2.489 m)	6'-6" (1.981 m)	4 1/2 (114)	22 (559)	1:2.5
48 (1200)	6550 (2970)	5 (127)	24 (610)	6'-0" (1.829 m)	26 (660)	8'-2" (2.489 m)	7'-0" (2.134 m)	5 (127)	22 (559)	1:2.5
54 (1350)	8240 (3740)	5 1/2 (140)	27 (686)	5'-5" (1.651 m)	35 (889)	8'-4" (2.54 m)	7'-6" (2.286 m)	5 1/2 (140)	24 (610)	1:2.0
60 (1500)	8730 (3960)	6 (152)	35 (889)	5'-0" (1.524 m)	39 (991)	8'-3" (2.515 m)	8'-0" (2.438 m)	5 (127)	*	1:1.9
66 (1650)	10710 (4860)	6 1/2 (165)	30 (762)	6'-0" (1.829 m)	27 (686)	8'-3" (2.515 m)	8'-6" (2.591 m)	5 1/2 (140)	*	1:1.7
72 (1800)	12520 (5680)	7 (178)	36 (914)	6'-6" (1.981 m)	21 (533)	8'-3" (2.514 m)	9'-0" (2.743 m)	6 (152)	*	1:1.8
78 (1950)	14770 (6700)	7 1/2 (191)	36 (914)	7'-6" (2.286 m)	21 (533)	9'-3" (2.819 m)	9'-6" (2.896 m)	6 1/2 (165)	*	1:1.8
84 (2100)	18160 (8240)	8 (203)	36 (914)	7'-6 1/2" (2.299 m)	21 (533)	9'-3 1/2" (2.832 m)	10'-0" (3.048 m)	6 1/2 (165)	*	1:1.6

* Radius as furnished by manufacturer

GENERAL NOTES

All slope ratios are expressed as units of vertical displacement to units of horizontal displacement (V:H).

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

DATE	REVISIONS
1-1-11	Clarified ref. to pipe dia. on Section A-A, Changed 'inner' to 'outer' cage ref.
1-1-09	Switched units to English (metric).

PRECAST REINFORCED CONCRETE FLARED END SECTION

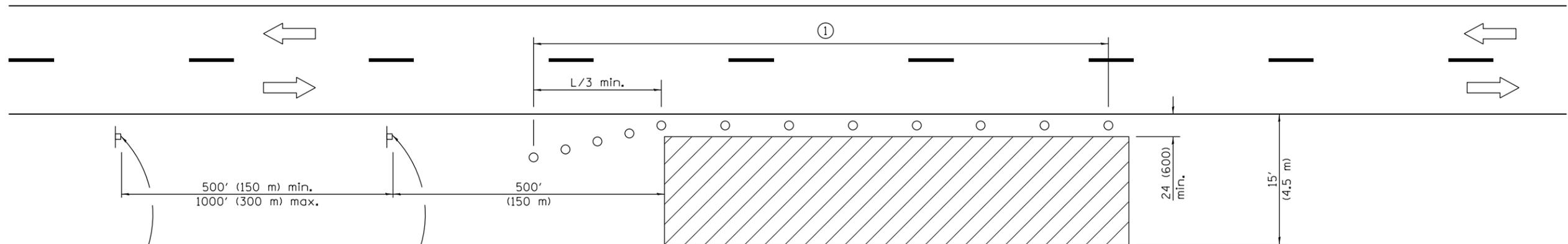
STANDARD 542301-03

Illinois Department of Transportation

APPROVED January 1, 2011
Ralph E. Anderson
 ENGINEER OF BRIDGES AND STRUCTURES

APPROVED January 1, 2011
Scott Schick
 ENGINEER OF DESIGN AND ENVIRONMENT

ISSUED 1-1-97



For contract construction projects

ROAD CONSTRUCTION AHEAD

W20-1103(0)-48

W21-1a(0)-48

For maintenance and utility projects

ROAD WORK AHEAD

W20-1(0)-48

TYPICAL APPLICATIONS

- Utility operations
- Culvert extensions
- Side slope changes
- Guardrail installation and maintenance
- Delineator installation
- Landscaping operations
- Shoulder repair
- Sign installation and maintenance

SYMBOLS

-  Work area
-  Sign
-  Cone, drum or barricade

① When the work operation exceeds one hour, cones, drums or barricades shall be placed at 25' (8 m) centers for L/3 distance, and at 50' (15 m) centers through the remainder of the work area.

GENERAL NOTES

This Standard is used where any vehicles, equipment, workers or their activities will encroach in the area 15' (4.5 m) to 24 (600) from the edge of pavement.

Calculate L as follows:

SPEED LIMIT	FORMULAS	
	English	(Metric)
40 mph (70 km/h) or less:	$L = \frac{WS^2}{60}$	$L = \frac{WS^2}{150}$
45 mph (80 km/h) or greater:	$L = (W)(S)$	$L = 0.65(W)(S)$

W = Width of offset in feet (meters).

S = Normal posted speed mph (km/h).

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

DATE	REVISIONS
1-1-13	Omitted text 'WORKERS' sign.
1-1-09	Switched units to English (metric).
	Corrected sign No.'s.

OFF-RD OPERATIONS, 2L, 2W, 15' (4.5 m) TO 24" (600 mm) FROM PAVEMENT EDGE

STANDARD 701006-04

Illinois Department of Transportation

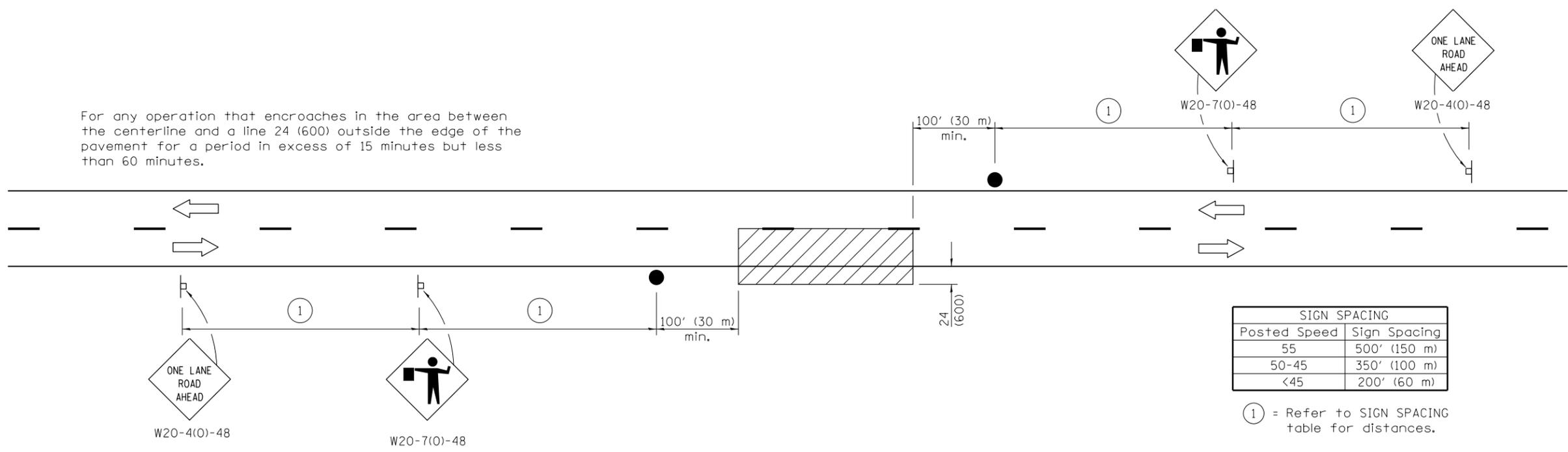
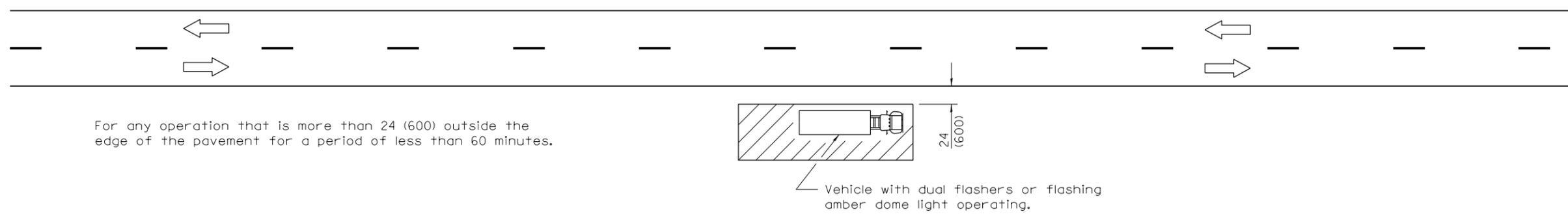
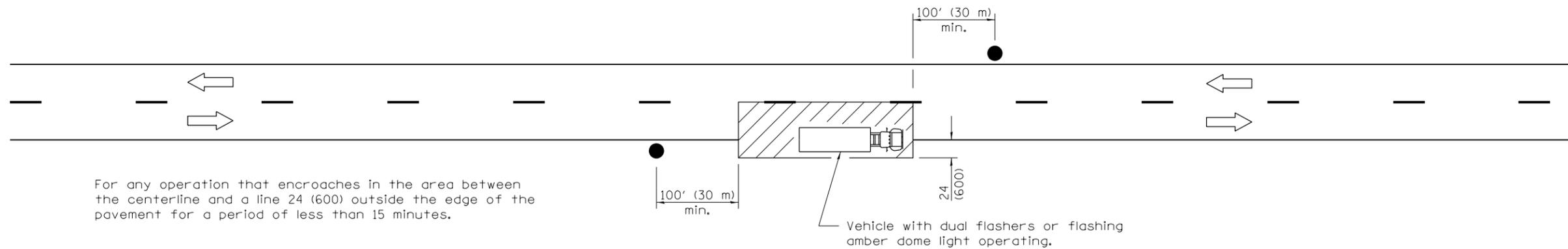
APPROVED January 1, 2013

ENGINEER OF SAFETY ENGINEERING

APPROVED January 1, 2013

ENGINEER OF DESIGN AND ENVIRONMENT

ISSUED 1-1-97



TYPICAL APPLICATIONS

- Marking patches
- Field survey
- String line
- Utility operations
- Cleaning up debris on pavement

SYMBOLS

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

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

Illinois Department of Transportation

APPROVED January 1, 2011
Amelia A. Davis
 ENGINEER OF SAFETY ENGINEERING

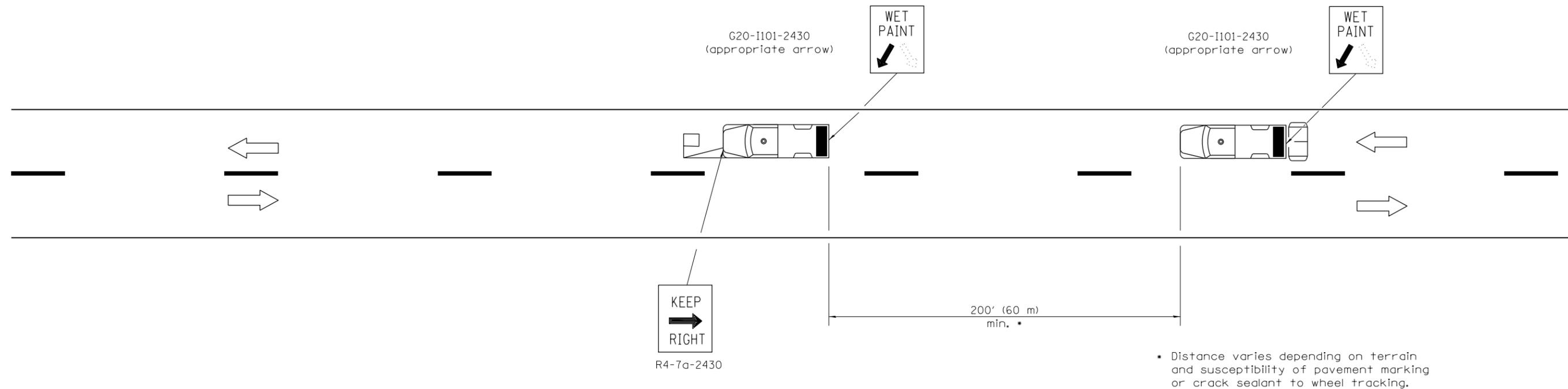
ISSUED 1-1-97

APPROVED January 1, 2011
Scott Schickel
 ENGINEER OF DESIGN AND ENVIRONMENT

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

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

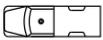
STANDARD 701301-04



TYPICAL APPLICATIONS

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

SYMBOLS

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

GENERAL NOTES

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

For shoulder operations not encroaching on the pavement, use DETAIL A, Standard 701426.

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

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

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

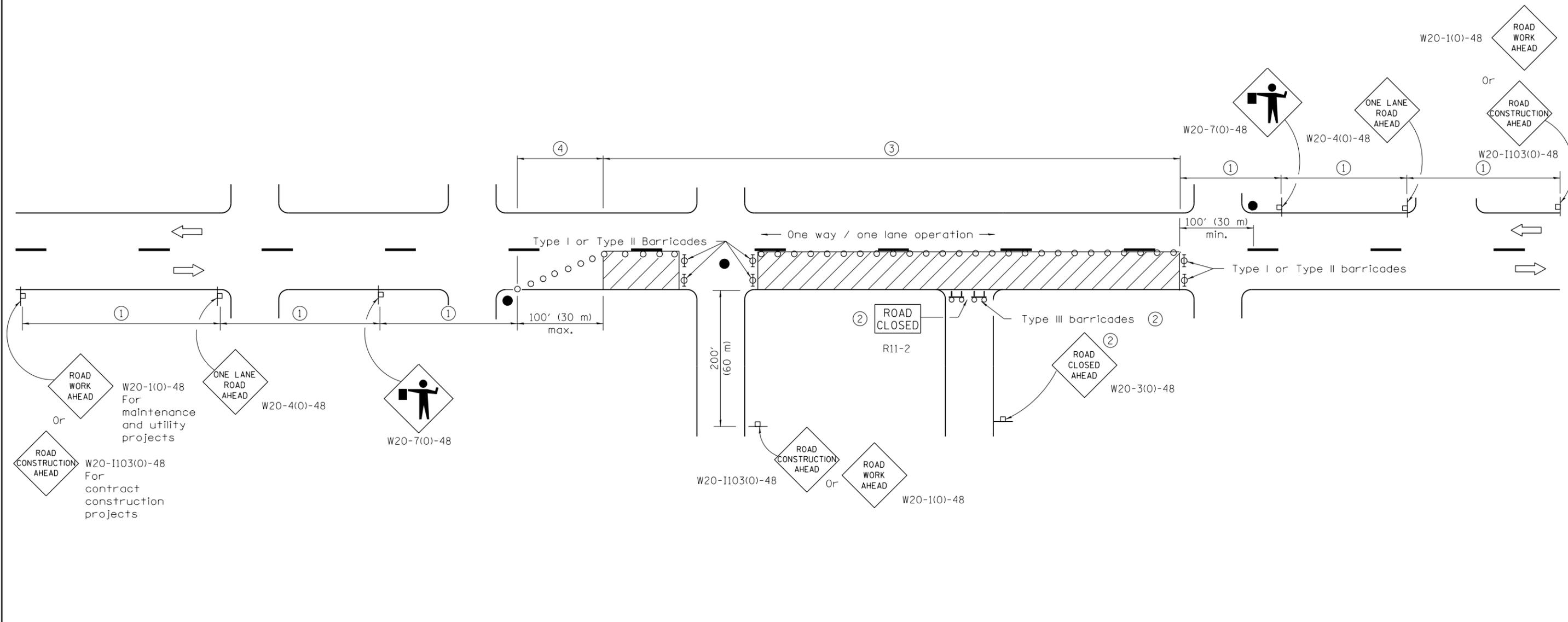
STANDARD 701311-03

Illinois Department of Transportation

APPROVED January 1, 2009
ENGINEER OF OPERATIONS

APPROVED January 1, 2009
ENGINEER OF DESIGN AND ENVIRONMENT

ISSUED 1-1-97



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

SYMBOLS

- Work area
- Cone, drum or barricade (not required for moving operations)
- Sign on portable or permanent support
- Flagger with traffic control sign
- Barricade or drum with flashing light
- Type III barricade with flashing lights

- ① Refer to SIGN SPACING TABLE for distances.
- ② For approved sideroad closures.
- ③ Cones at 25' (8 m) centers for 250' (75 m). Additional cones may be placed at 50' (15 m) centers. When drums or Type I or Type II barricades are used, the interval between devices may be doubled.
- ④ Cones, drums or barricades at 20' (6 m) centers.

GENERAL NOTES

This Standard is used where at any time, day or night, any vehicle, equipment, workers or their activities encroach on the pavement requiring the closure of one traffic lane in an urban area.

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

Illinois Department of Transportation

APPROVED January 1, 2011

 ENGINEER OF SAFETY ENGINEERING

APPROVED January 1, 2011

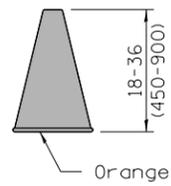
 ENGINEER OF DESIGN AND ENVIRONMENT

ISSUED 1-1-97

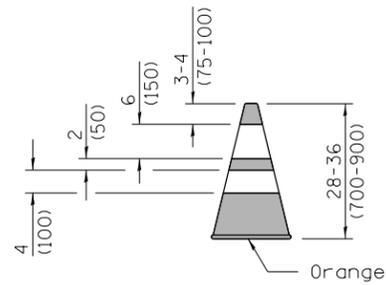
DATE	REVISIONS
1-1-11	Revised flagger sign.
1-1-09	Switched units to English (metric).
	Corrected sign No.'s.

**URBAN LANE CLOSURE,
2L, 2W, UNDIVIDED**

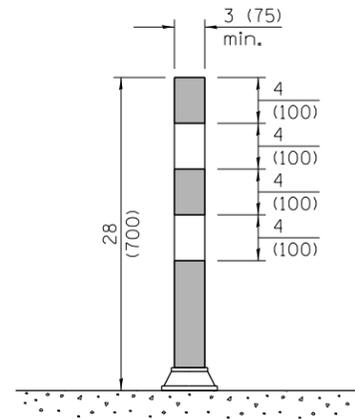
STANDARD 701501-06



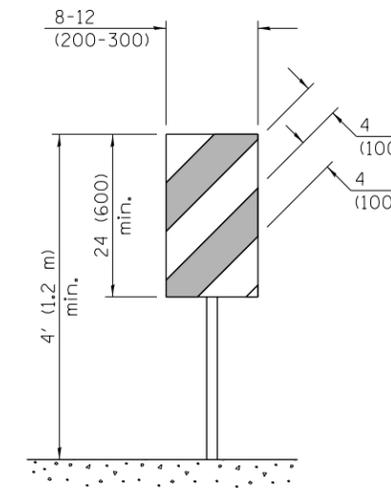
CONE



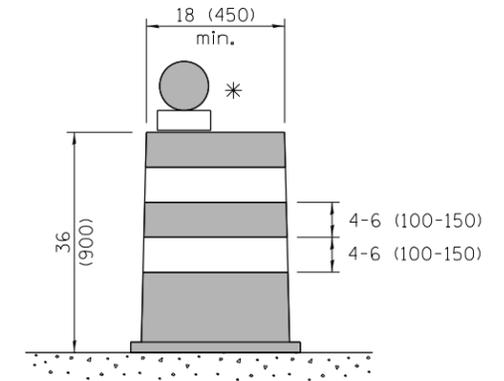
REFLECTORIZED CONE



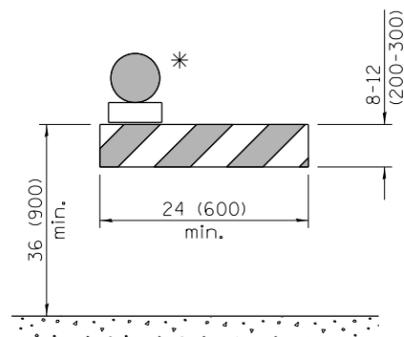
FLEXIBLE DELINEATOR



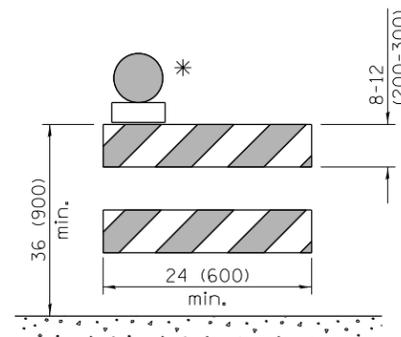
**VERTICAL PANEL
POST MOUNTED**



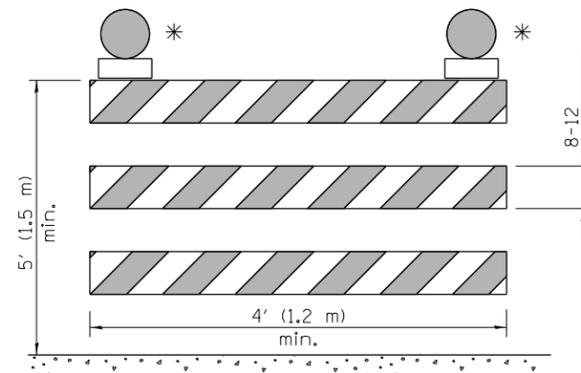
DRUM



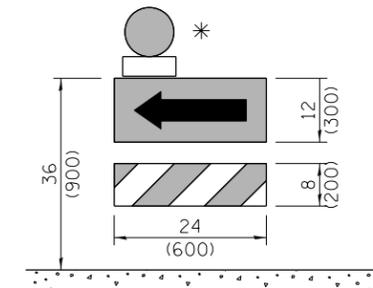
TYPE I BARRICADE



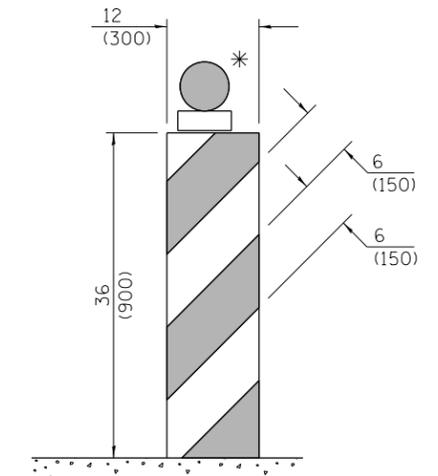
TYPE II BARRICADE



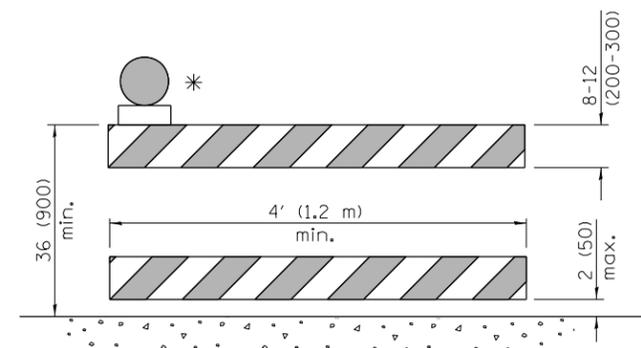
TYPE III BARRICADE



**DIRECTION INDICATOR
BARRICADE**



VERTICAL BARRICADE



**DETECTABLE PEDESTRIAN
CHANNELIZING BARRICADE**

* Warning lights (if required)

GENERAL NOTES

All heights shown shall be measured above the pavement surface.

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

DATE	REVISIONS
1-1-12	Added DETECTABLE PEDESTRIAN CHANNELIZING BARRICADE.
1-1-09	Switched units to English (metric). Omitted light on vertical panel.

**TRAFFIC CONTROL
DEVICES**

(Sheet 1 of 3)

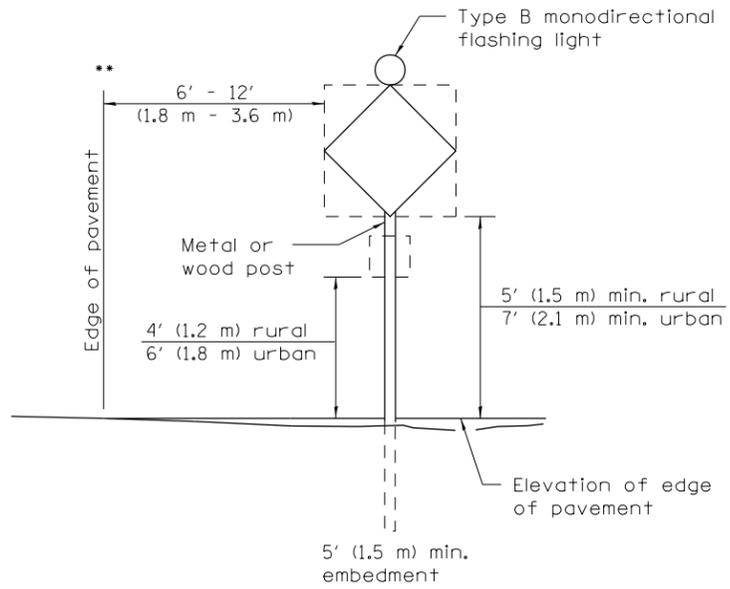
STANDARD 701901-02

Illinois Department of Transportation

APPROVED Justin Mann January 1, 2012
ENGINEER OF OPERATIONS

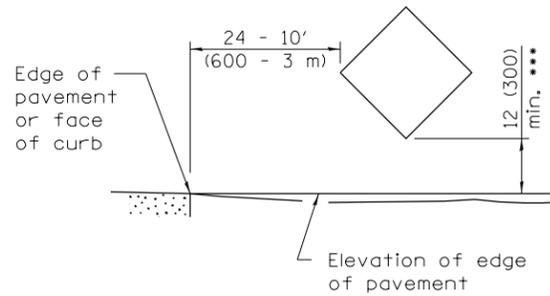
APPROVED Scott Esch January 1, 2012
ENGINEER OF DESIGN AND ENVIRONMENT

ISSUED 46-1-1 03/05/11



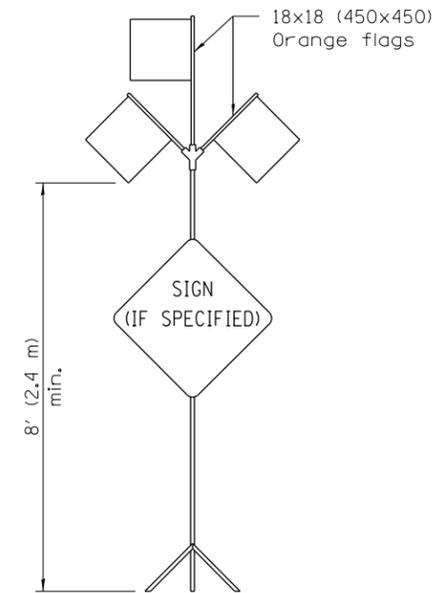
POST MOUNTED SIGNS

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



SIGNS ON TEMPORARY SUPPORTS

*** When work operations exceed four days, this dimension shall be 5' (1.5 m) min. If located behind other devices, the height shall be sufficient to be seen by motorists.



HIGH LEVEL WARNING DEVICE



G20-1(0)-6036



G20-2a(0)-6024

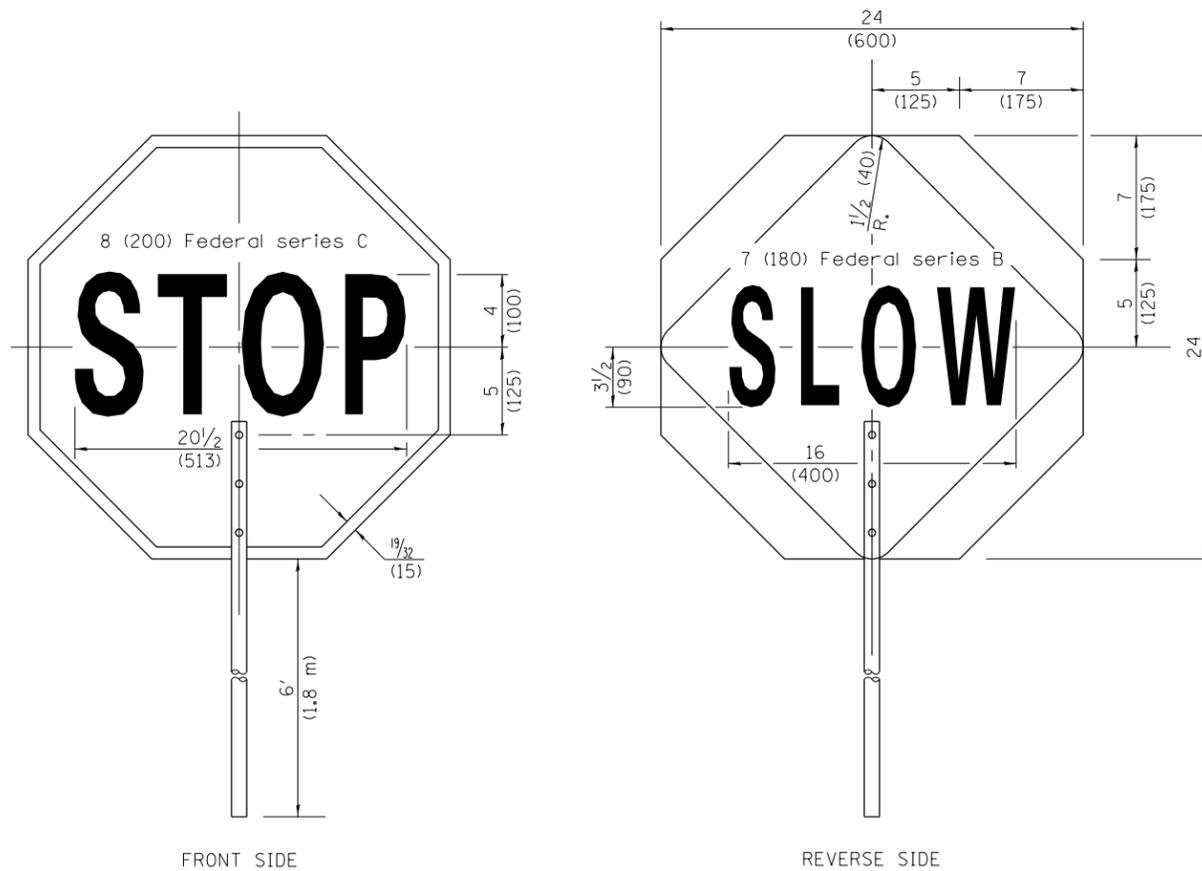
This signing is required for all projects 2 miles (3200 m) or more in length.

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



FLAGGER TRAFFIC CONTROL SIGN

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

TRAFFIC CONTROL DEVICES

(Sheet 2 of 3)

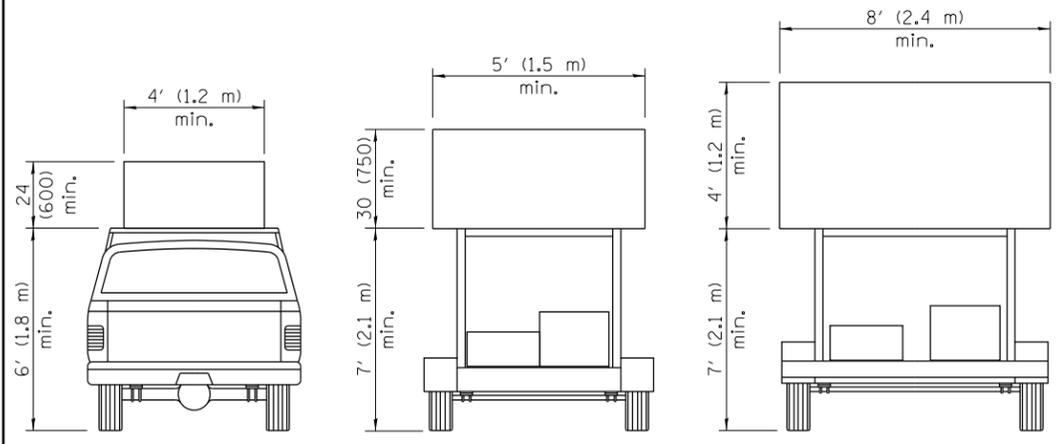
STANDARD 701901-02

Illinois Department of Transportation

APPROVED January 1, 2012
Dustin Mann
 ENGINEER OF OPERATIONS

APPROVED January 1, 2012
Scott Esch
 ENGINEER OF DESIGN AND ENVIRONMENT

ISSUED 1-1-97

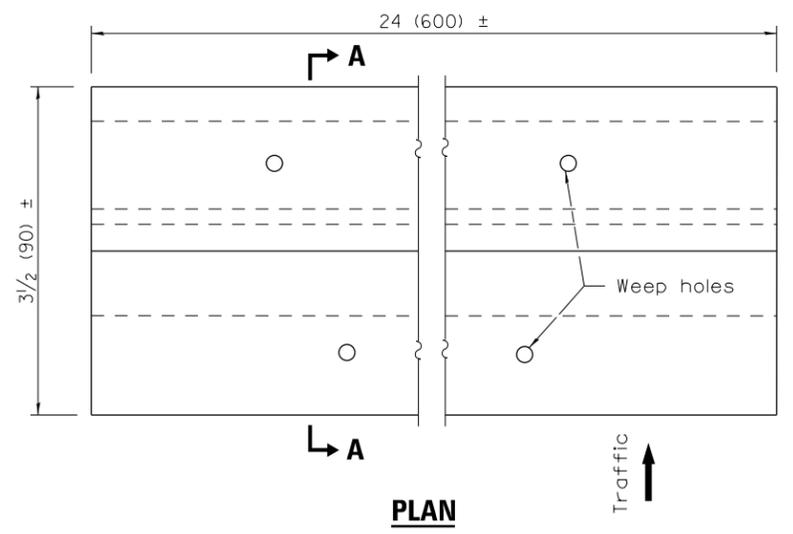


**TYPE A
ROOF
MOUNTED**

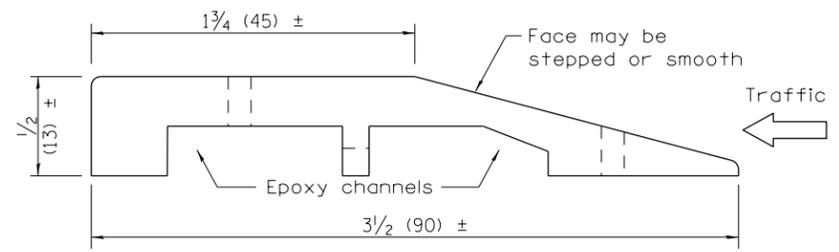
**TYPE B
ROOF OR TRAILER
MOUNTED**

**TYPE C
TRAILER
MOUNTED**

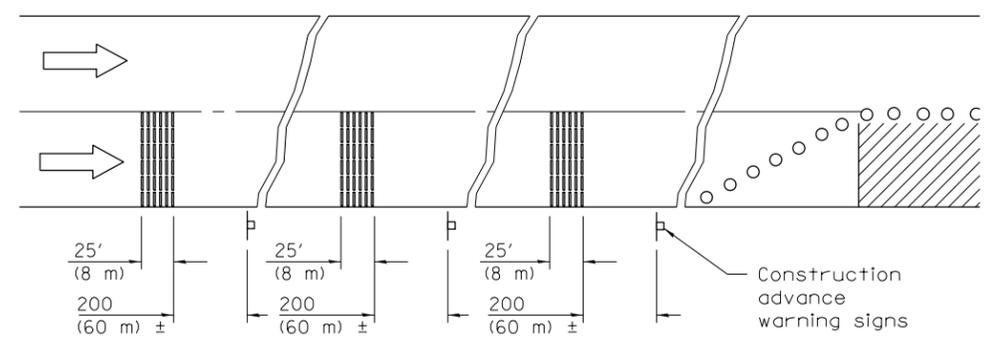
ARROW BOARDS



PLAN

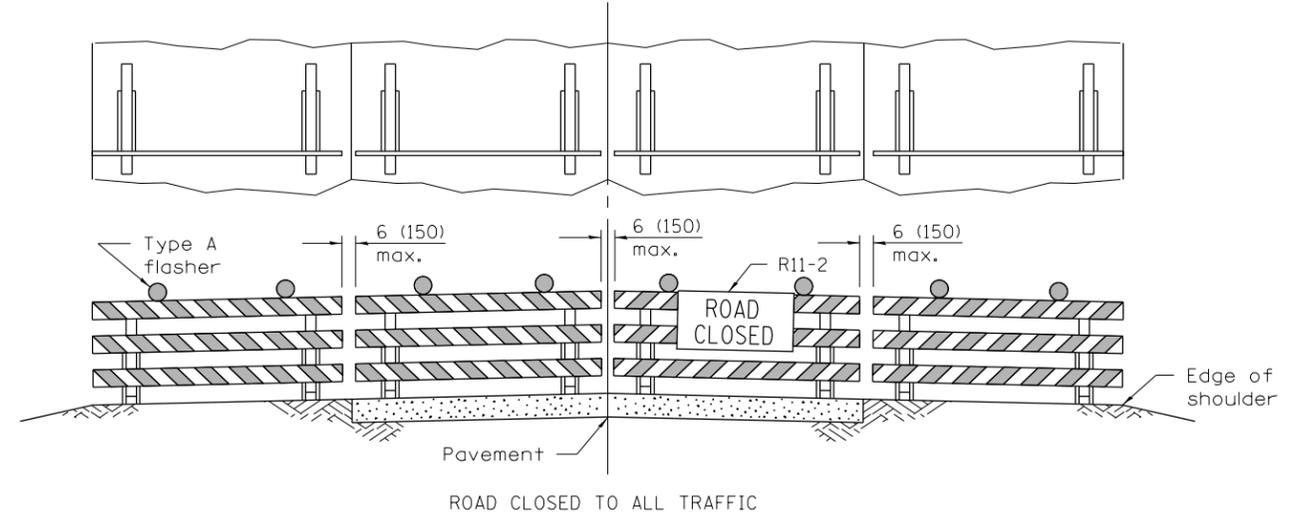


SECTION A-A



TYPICAL INSTALLATION

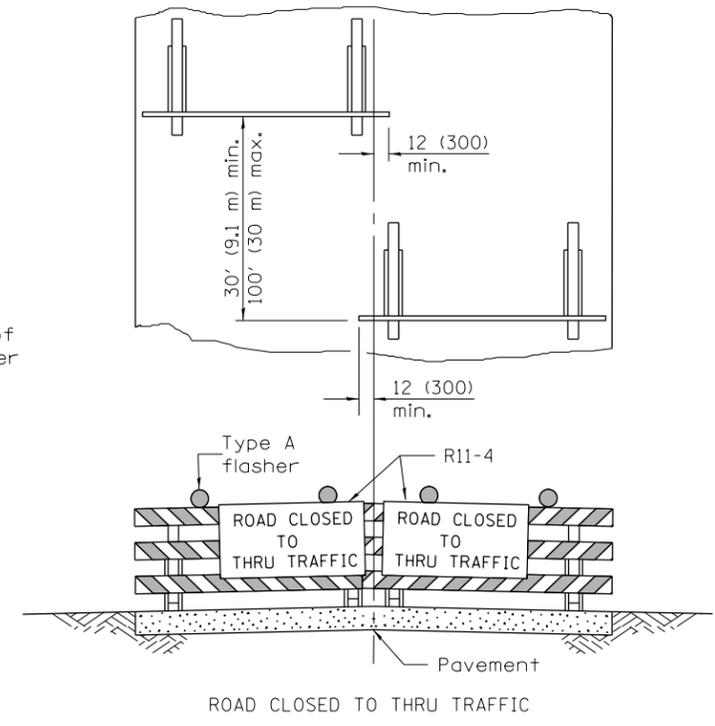
TEMPORARY RUMBLE STRIPS



ROAD CLOSED TO ALL TRAFFIC

Reflectorized striping may be omitted on the back side of the barricades. If a Type III barricade with an attached sign panel which meets NCHRP 350 is not available, the sign may be mounted on an NCHRP 350 temporary sign support directly in front of the barricade.

**TYPICAL APPLICATIONS OF
TYPE III BARRICADES CLOSING A ROAD**



ROAD CLOSED TO THRU TRAFFIC

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

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

Illinois Department of Transportation

APPROVED January 1, 2012
Dustin Mann
 ENGINEER OF OPERATIONS

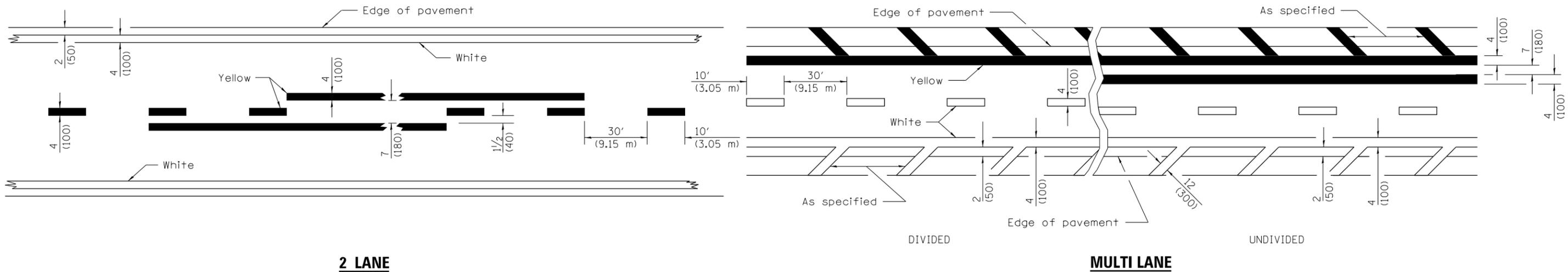
APPROVED January 1, 2012
Scott Esch
 ENGINEER OF DESIGN AND ENVIRONMENT

ISSUED 1-1-97
 46-1-97

**TRAFFIC CONTROL
DEVICES**

(Sheet 3 of 3)

STANDARD 701901-02



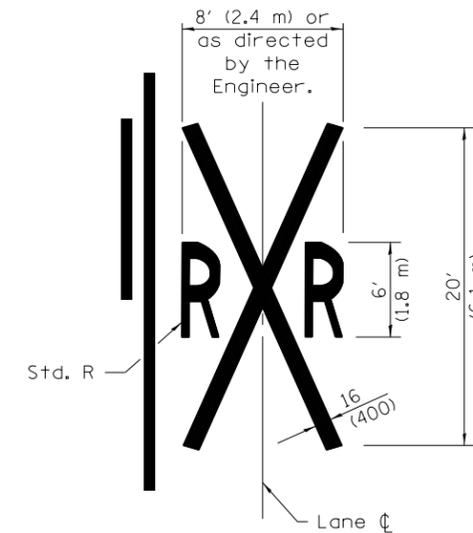
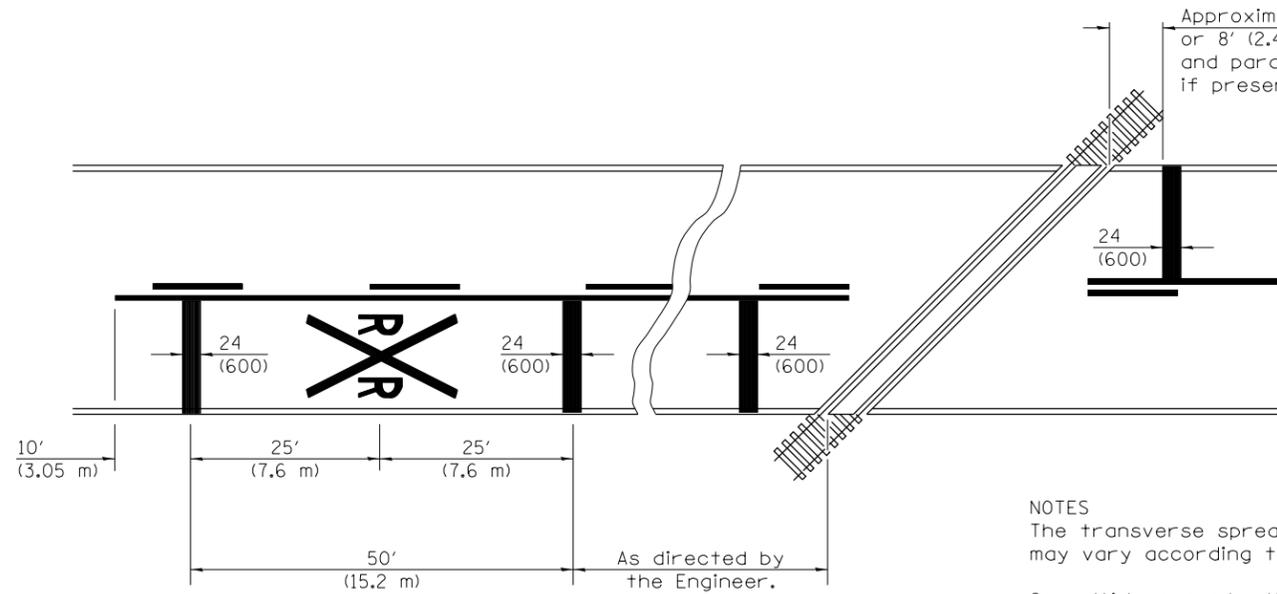
2 LANE

DIVIDED

MULTI LANE

UNDIVIDED

LANE AND EDGE LINES



NOTES

The transverse spread of the "X" may vary according to lane width.

On multi-lane roads, the stop lines shall extend across all approach lanes and separate RXR symbols shall be placed adjacent to each other in each lane.

When the pavement marking symbol is used, a portion of the symbol should be located directly adjacent to the Advance Warning Sign (W10-1) as placed by Table 2C-4, Condition B of the MUTCD.

PAVEMENT MARKINGS AT RAILROAD-HIGHWAY GRADE CROSSING

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

Illinois Department of Transportation

APPROVED January 1, 2012
Dustin Mann
 ENGINEER OF OPERATIONS

APPROVED January 1, 2012
Scott Esch
 ENGINEER OF DESIGN AND ENVIRONMENT

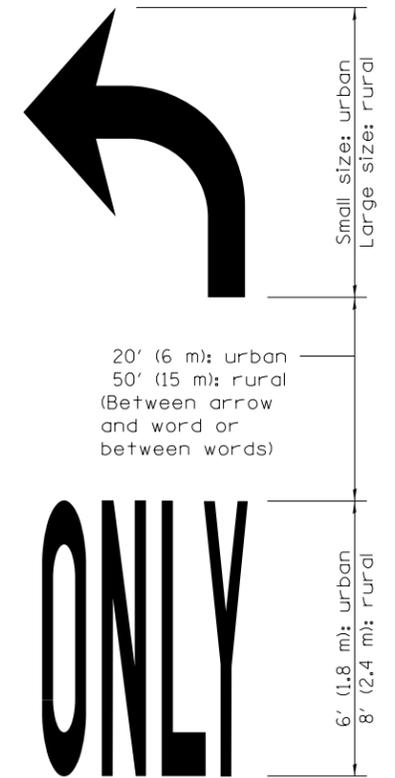
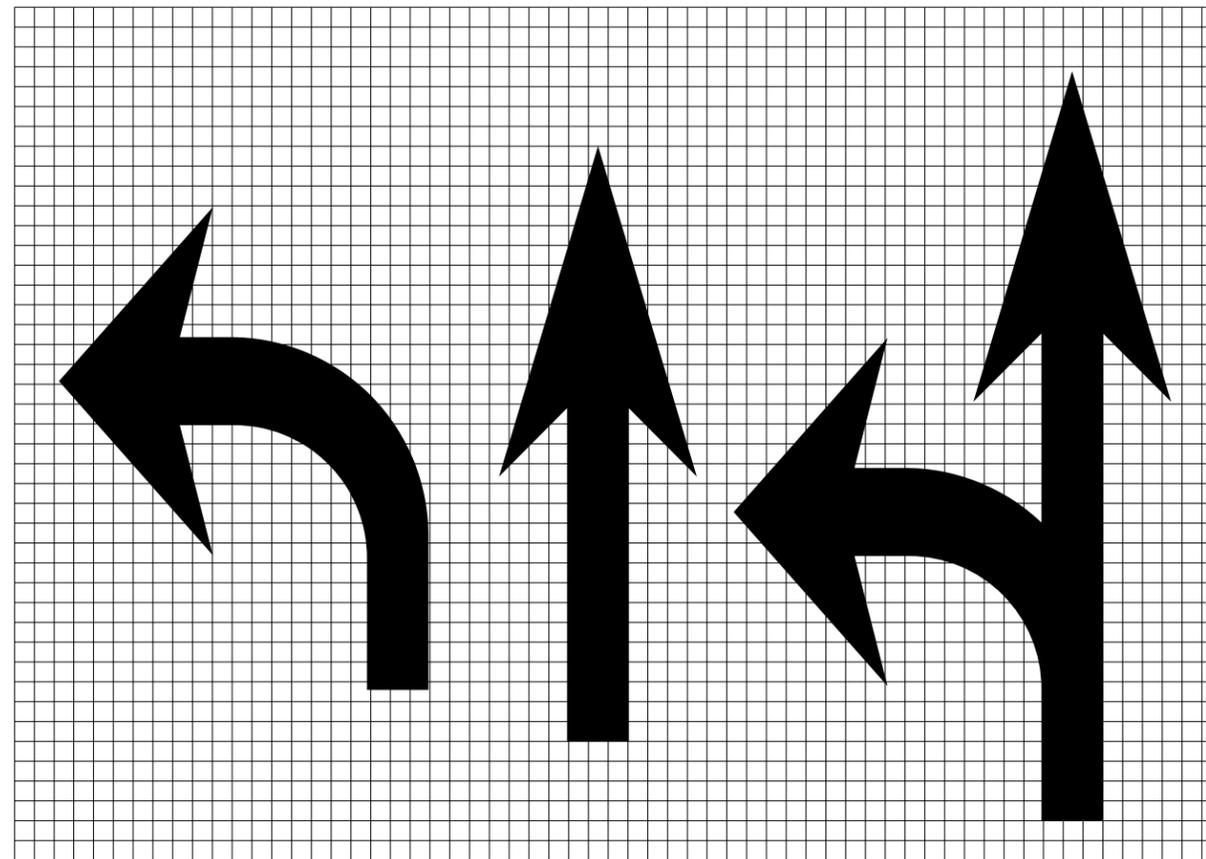
ISSUED 1-1-97

DATE	REVISIONS
1-1-12	Updated reference to current MUTCD table in notes.
1-1-09	Switched units to English (metric).

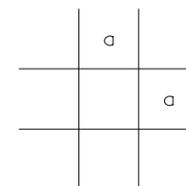
TYPICAL PAVEMENT MARKINGS

(Sheet 1 of 2)

STANDARD 780001-03



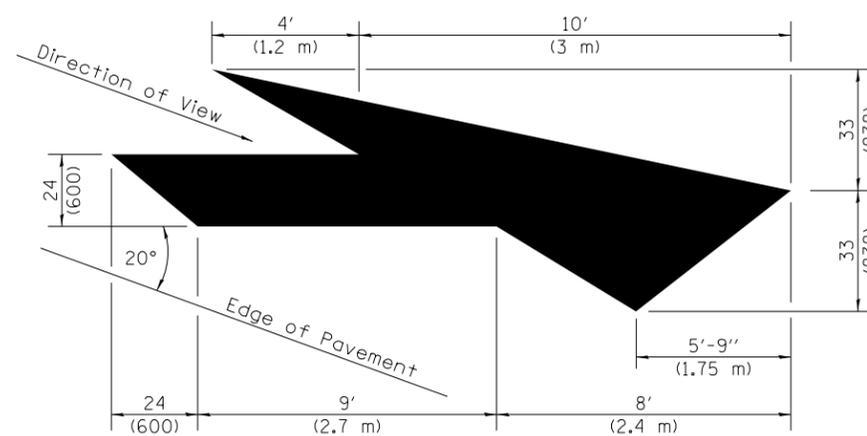
WORD AND ARROW LAYOUT



Legend Height	Arrow Size	a
6' (1.8 m)	Small	2.9 (74)
8' (2.4 m)	Large	3.8 (96)

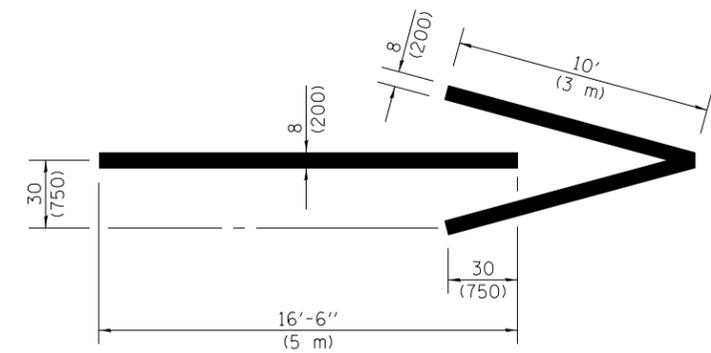
The space between adjacent letters or numerals should be approximately 3 (75) for 6' (1.8 m) legend and 4 (100) for 8' (2.4 m) legend.

LETTER AND ARROW GRID SCALE



LANE DROP ARROW

Right lane drop arrow shown.
Use mirror image for left lane.



WRONG WAY ARROW

TYPICAL PAVEMENT MARKINGS

(Sheet 2 of 2)

STANDARD 780001-03

Illinois Department of Transportation

APPROVED January 1, 2012
Justin Mann
 ENGINEER OF OPERATIONS

APPROVED January 1, 2012
Scott Sedy
 ENGINEER OF DESIGN AND ENVIRONMENT

ISSUED 1-1-97



PAVEMENT CORE SUMMARY REPORT

May 8, 2013

To: Bill Klewin
Gewalt Hamilton Associates, Inc.
820 Lakeside Drive, Suite 5
Gurnee, IL 60031
O 847-855-1100

Re: Pavement Core Summary Report
Proposed Hanover Township 2013
Road Maintenance Program
Rohrssen Road, Hanover Township, IL

Report # C13.035

Via email: bklewin@gha-engineers.com

Dear Mr. Klewin,

Rubino Engineering, Inc. is pleased to submit the following summary report for the above referenced project.

PROJECT SCOPE

Rubino Engineering, Inc. received authorization to proceed on Rubino proposal number Q13.098g dated April 25, 2013 from Bill Klewin of Gewalt Hamilton on April 29, 2013.

Cores were taken in the pavement at Rohrssen Rd in Hanover Township, Illinois. The following table summarizes the thicknesses observed in the field and laboratory:

Core Number	Address /Core Location	Asphalt Thickness (in)	Subbase Stone Thickness (in)	Coarse Aggregate Thickness (in)
C1	11N464 Rohrssen Rd / 8' W of CL	8¼	4	6
C2	11N464 Rohrssen Rd / 8' E of CL	9½	4	9
C3	11N540 Rohrssen Rd / 8' W of CL	9	4	9
C4	11N540 Rohrssen Rd / 8' E of CL	7½	6	6
C5*	11N720 Rohrssen Rd / 8' W of CL	8¾	6	6
C6*	11N720 Rohrssen Rd / 8' E of CL	10¼	6	6

*Both Core C-5 and C-6 have an additional 1½" layer of asphalt and 4" layer of aggregate that appeared to be CA-6 under the coarse aggregate.

The above referenced thicknesses are considered approximate. Pavement and subbase type and thickness may vary between core locations.

Respectfully Submitted,

Rubino Engineering, Inc.

Attachments:

Core Location Diagram
Core Photos

Core Location Plan



 A cylindrical pavement core sample, labeled C-1, is shown next to a yellow ruler for scale. The core is composed of a dark matrix with numerous light-colored aggregate particles.	 A cylindrical pavement core sample, labeled C-2, is shown next to a yellow ruler for scale. The core is composed of a dark matrix with numerous light-colored aggregate particles.	 A cylindrical pavement core sample, labeled C-3, is shown next to a yellow ruler for scale. The core is composed of a dark matrix with numerous light-colored aggregate particles.
<p>Core C-1</p>	<p>Core C-2</p>	<p>Core C-3</p>
 A cylindrical pavement core sample, labeled C-4, is shown next to a yellow ruler for scale. The core is composed of a dark matrix with numerous light-colored aggregate particles.	 A cylindrical pavement core sample, labeled C-5, is shown next to a yellow ruler for scale. The core is composed of a dark matrix with numerous light-colored aggregate particles.	 A cylindrical pavement core sample, labeled C-6, is shown next to a yellow ruler for scale. The core is composed of a dark matrix with numerous light-colored aggregate particles.
<p>Core C-4</p>	<p>Core C-5</p>	<p>Core C-6</p>
<p>Core Photos</p>		

