



# Village of Hanover Park

## Public Works

Public Works Facility  
2041 Lake Street  
Hanover Park, IL 60133-4398

630-823-5700  
FAX 630-823-5704  
[www.hpil.org](http://www.hpil.org)

**PRESIDENT**  
RODNEY S. CRAIG

**VILLAGE CLERK**  
EIRA CORRAL

**TRUSTEES**  
WILLIAM CANNON  
JAMES KEMPER  
JENNI KONSTANZER  
JON KUNKEL  
RICK ROBERTS  
EDWARD J. ZIMEL, JR.

**VILLAGE MANAGER**  
JULIANA A. MALLER

May 24, 2013

J.A. Johnson Paving Co.  
1025 E. Addison Ct.  
Arlington Heights, IL 60005

Re: Hanover Park MFT Section 14-00000-02-GM  
2013 Street Resurfacing Program

Gentlemen:

The Board of Trustees awarded the contract to you at their May 2<sup>nd</sup> meeting.

Enclosed for your records is a fully-executed copy of the Contract and Contract Bond for your records.

Please contact me at 630-823-S650 should you have any questions.

Sincerely,

Ingrid Oberle E.I.  
Civil Engineer

Enclosure

c: Village Clerk  
Engineering



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

STATE OF ILLINOIS

COUNTY OF Cook and DuPage

Village of Hanover Park

(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

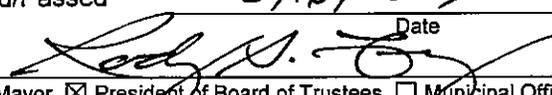
STREET NAME OR ROUTE NO. Various Village Streets

SECTION NO. 14-00000-02-GM

TYPES OF FUNDS MFT & NON-MFT

**For Municipal Projects**

Submitted/Approved/Passed 5/16/2013  
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

AGREEMENT

Date \_\_\_\_\_

OF

UNDERSTANDING

Regional Engineer



**RETURN WITH BID**

Route	<u>Various Village Streets</u>
County	<u>Cook &amp; DuPage</u>
Local Agency	<u>Hanover Park</u>
Section	<u>14-00000-02-GM</u>

**Time and Place of Opening of Bids**

Sealed proposals for the improvement described below will be received at the office of the Village Clerk of the Village of Hanover Park, 2121 Lake Street, Hanover Park, Illinois 60133

until 11:15 o'clock A M., April 23, 2013 (date) Proposals will be opened and read publicly  
 at 11:15 o'clock A M., April 23, 2013 (date) at the office of the Village Clerk of the Village of Hanover Park, 2121 Lake Street, Hanover Park, Illinois 60133 (address)

**Description of Work**

Name Various Village Streets Length 16030.00 feet ( 3.04 miles)  
 Location Various streets in the Village of Hanover Park  
 Proposed Improvement Hot Mix Asphalt surface removal, adjustment of manholes, rebuilding drainage structures, curb & gutter and sidewalk replacement, and resurfacing with hot mix asphalt surface at various locations.

**Bidders Instructions**

1. Plans and proposal forms will be available in the office of the Village Engineer, Howard A. Killian, P.E., Village of Hanover Park, 2041 Lake Street, Hanover Park, Illinois, 60133 (630) 823-5700
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:
 

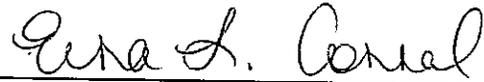
a. BLR 12210 - Contract Cover	f. BLR 12230 - Proposal Bid Bond (if applicable)
b. BLR 12220 - Notice to Bidders	g. BLR 12325 - Apprenticeship or Training Program Certification (do not use for federally funded projects)
c. BLR 12221 - Contract Proposal	
d. BLR 12222 - Contract Schedule of Prices	
e. BLR 12223 - Signatures	
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

Village of Hanover Park

(Awarding Authority)



/Eira L. Corral

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.

## INFORMATION FOR BIDDERS/GENERAL CONDITIONS

1. **Proposal**

All proposals must be on the forms provided in the bound copy of the specifications and contract stipulations hereto attached. All proposals must be legibly written in ink with all prices given in figures. Each proposal must be enclosed in a sealed envelope addressed to the Village Clerk, Village of Hanover Park, Illinois, and endorsed on the outside of the envelope, "Bid for Section No. 14-00000-02-GM, 2013 Resurfacing" and filed in the Village Clerk's office at Hanover Park, Illinois, prior to 11:15 a.m., April 23, 2013.

2. **Special Notice**

Bidders shall inform themselves of the condition of the site and applicable Village and State laws, obstacles to be encountered, and all other relevant matters concerning the work to be performed, and the Village shall not be obliged in any way by reason of any matter of thing concerning which such bidder might have so informed himself prior to the bidding.

3. **Bid Award**

Security deposited by unsuccessful bidders will be returned as soon as possible after the award is made and successful bidder has executed his contract and furnished contract bond.

4. **Time of Completion**

The successful bidder will be required to complete the work within the time stipulated in his proposal. It will be necessary for the bidder to satisfy the Village of his ability or as to his arrangements to execute the work within the time stipulated.

5. **Bonds**

Within ten (10) calendar days after acceptance of bid by the Village, the successful bidder shall furnish contract performance bond, acceptable to the Village in full amount of his contract.

6. **Specifications**

The ordinances and regulations of the Village of Hanover Park, the "Standard Specifications for Road and Bridge Construction", prepared by The Department of Transportation of the State of Illinois and adopted by said Department January 1, 2013, hereinafter known as "Standard Specifications", and the specifications and special provisions provided herein shall govern the construction of the proposed improvement designated as "Section No. 14-00000-02-GM, Resurfacing"

7. **Definition**

Anywhere in the specifications where the word Department is stated, Department shall be construed to mean the Village of Hanover Park.

8. **Responsibility**

The Contractor will be held responsible for any accidents due to his negligence. The Contractor shall provide barricades with flashers to mark any hazards created by construction, such as exposed manholes, pavement removal, areas of excavation, etc. The Engineer shall be the sole judge as to the acceptability of barricade placement.

9. **Prevailing Wages**

Not less than the prevailing rate of wages as found by the Village of Hanover Park or the Department of Labor as determined by the court on review shall be paid to all laborers, workmen and mechanics performing under this contract.

10. **Bid Bond**

A five (5%) percent bid bond, cashier's check, bank draft or certified check shall accompany all proposals.

11. **Prequalification**

Prequalification of all bidders in conformance with Section 102.01 of the Standard Specifications is required and proposal forms will only be issued to contractors who furnish a certified or photostatic copy of a "Certificate of Eligibility" issued by the Illinois Department of Transportation.

12. **Receiving Bids**

Bids received prior to the time of opening will be securely kept, unopened. The Village Clerk, whose duty it is to open them, will decide when the specified time has arrived, and no bid received thereafter will be considered. No responsibility will be attached to the Village Clerk or the Village for the premature or non-opening of a bid not properly addressed and identified, except as otherwise provided by law.

13. **Permits and Licenses**

The successful bidder shall obtain, at their own expense, all permits and licenses which may be required to complete the contract. Fees for all Village permits and licenses shall be waived.

14. **Waiver of Liens**

The Contractor shall procure, from each subcontractor and supplier of material or labor, a waiver of any claim which they may have under the mechanics lien laws of the State in which the work is located, to insure the Village immunity from mechanics liens on account of anything which is done by the Contractor or his subcontractors in carrying out the contract and any work orders for additions thereto, all as a condition of any payment by the Village on account of the contract. Any payments made by the Village without requiring compliance with this paragraph shall not be construed as a waiver of the Village of the right to require compliance with this paragraph as a condition of later payments.

The Contractor shall furnish with his request for final payment a complete release of all liens arising out of this contract, or receipts in full in lieu thereof and an affidavit that the releases and receipts include all labor and materials for which a lien could be filed.

15. **Forms**

All bids must be submitted on the forms provided, complete with all blank spaces filled in and properly signed in ink in the proper spaces and submitted in a sealed envelope. All bid forms may be obtained from the Office of the Village Clerk, 2121 West Lake Street, Hanover Park, IL 60133 and when completed delivered to the Office of the Village Clerk prior to the bid opening date and time. Bids must be identified as such on the outside of the sealed envelope by marking the envelope "SEALED BID" and with the following information: Company's name, address, item bid, date and time of opening. Bidders may attach separate sheets for the purpose of explanation, exception, or alternative proposal and to cover required unit prices.

16. **Examination of Bid Forms, Specifications, and Site**

The bidder shall carefully examine the bid forms which may include the invitation to bid, instruction to bidders, general conditions, special conditions, plans, specifications, bond, contract, and any addenda to them, and sites of the proposed work (when known) before submitting the bid. The submission of the bid shall be considered conclusive evidence that the bidder has investigated and is satisfied as to all conditions to be encountered in performing the work, and is fully informed as to character, quality, quantities, and costs of work to be performed and materials to be furnished, and as to the requirements of the bid forms. If the bid is accepted, the bidder will be responsible for all errors in his proposal resulting from his failure or neglect to comply with these instructions, and the Village shall not be responsible for any charge for extra work or change in anticipated profits resulting from such failure or neglect.

17. **Interpretation of Bid Documents**

Questions regarding bid documents, discrepancies, omissions, or intent of the specifications or plans shall be submitted in writing to the Village Clerk at least ten (10) working days prior to opening of bids to provide time for issuing and forwarding an addendum. Any interpretations of the Contract Documents will be made only by addendum duly issued or delivered by the Village to each person receiving a set of bid documents. The Village will not be responsible for any other explanations for interpretations of the Contract Documents.

Letters, requested interpretations, clarifications, and/or explanations shall be so noted on the outside of the envelope and on the first page of the letter with the words, **INTERPRETATION REQUEST**. Letters not properly marked will not be considered as a formal request. Any letter received within ten working days of the bid date will be returned unopened.

18. **Bid Guarantee**

Unless specifically waived, each bid shall be accompanied by a bid deposit in an amount of five percent (5%) of the full amount of the bid in the form of a certified or bank cashier's check or bid bond. In a reasonable time after the bid opening, bid deposits of all except the three lowest responsible bidders will be released. The remaining deposits will

be released after the successful bidder has entered into the contract and furnished the required insurance and bonds. The bid deposit shall become the property of the Village if the successful bidder within fourteen (14) days from awarding the contract refuses or is unable to comply with the contract requirements.

19. **Receiving Bids**

Bids received prior to the time of opening will be securely kept, unopened. The Village Clerk, whose duty it is to open them, will decide when the specified time has arrived, and no bid received thereafter will be considered. No responsibility will be attached to the Village Clerk or the Village for the premature or non-opening of a bid not properly addressed and identified, except as otherwise provided by law.

20. **Late and Fax Bids**

Bids arriving after the specified time, whether sent by mail, courier, or in person, will not be accepted and will be refused and returned unopened. It is the bidder's responsibility for timely delivery regardless of the methods used. Mailed bids which are delivered after the specified hour will not be accepted regardless of postmarked time on the envelope. Facsimile machine transmitted bids will not be accepted, nor will the Village transmit bid documents to prospective bidders by way of a facsimile machine.

21. **Completeness**

All information required by the Invitation to Bid must be supplied to constitute a responsive bid.

22. **Error in Bids**

When an error is made in extending total prices, the unit bid price and/or written words shall govern. Otherwise, the bidder is not relieved from errors in bid preparation. Erasures in bids must be explained over signature of bidder.

23. **Withdrawal of Bids**

A written request for the withdrawal of a bid or any part thereof may be granted if the request is received by the Village Clerk prior to the specified time of opening. After the opening, the bidder cannot withdraw or cancel his bid for a period of forty-five (45) calendar days, or such longer time as stated in the bid documents.

24. **Bidder Interested in More than One Bid**

Unless otherwise specified, if more than one bid is offered by any one party, by or in the name of his or their agent, partner, or other persons, all such bids may be rejected. A party who has quoted prices on work, materials, or supplies to other bidders is not thereby disqualified from quoting prices to other bidders or from submitting a bid directly for the work, materials, or supplies.

25. **Samples**

Samples or drawings requested shall be delivered and removed at no cost to the Village. The Village shall not be responsible for damage to samples. Samples shall be removed by the bidder within thirty (30) days after notification. Samples must be submitted prior to the time set for the opening of bids.

26. **Equipment or Materials**

Each bidder shall submit catalogs, descriptive literature, and detailed drawings necessary to fully describe those features or the material or work not covered in the specifications. The parts and materials bids must be of current date (latest model) and meet specifications. This provision excludes surplus, remanufactured, and used products except as an alternate bid. The brand name and/or manufacturer of each item proposed must be clearly stated. Guarantee and/or warranty information must be included with this bid.

27. **Estimated Bid Quantities**

On "Estimated Quantities", the Village may purchase more or less than the estimates. The Contractor shall not be required to deliver more than ten (10) percent in excess of the estimated quantity of each item, unless otherwise agreed upon.

28. **Trade Names – Alternative Bid**

When an item is identified in the specifications by a manufacturer's or trade name or catalog number, the bidder shall bid upon the item so identified.

If the specifications state "or equal" bids on other items will be considered, provided the bidder clearly identifies in his proposal the item to be furnished, together with any descriptive matter which will indicate the character of the item.

Bidders desiring to bid on items which deviate from these specifications, but which they believe are equivalent, are requested to submit alternate bids. However, ALTERNATE BIDS MUST BE CLEARLY INDICATED AS SUCH AND DEVIATIONS FROM THE APPLICABLE SPECIFICATIONS PLAINLY NOTED. The bid must be accompanied by complete specifications for the items offered. Bidders wishing to submit a secondary bid must submit it as an alternate bid.

The Village shall be the sole and final judge unequivocally as to whether any substitute from the specifications is of equivalent or better quality.

29. **Price**

Unit prices shall be shown for each unit on which there is a bid as well as the aggregate price and shall include all packing, crating, freight and shipping charges, and cost of unloading at the destination unless otherwise stated in the bid.

Unit prices shall not include any local, state, or federal taxes. The Village is exempt, by law, from paying State and Village Retailer's Occupation Tax, State Service Occupation and Use Tax and Federal Excise Tax. The Village will supply the successful bidder with its tax exemption number.

Cash discounts will not be considered in determining overall price, but may be used in an overall evaluation.

30. **Consideration of Bid**

No bid will be accepted from or contract awarded to any person, firm or corporation that is in arrears or is in default to the Village upon any debt or contract, or that is a defaulter, as surety or otherwise, upon any obligation to the Village or had failed to perform faithfully any previous contract with the Village.

The bidder, if requested, shall present within 48 hours evidence satisfactory to the Village of performance ability and possession of necessary facilities, pecuniary resources and adequate insurance to comply with the terms of these specifications and contract documents.

31. **Award or Rejection**

The Village reserves the right to reject and/or award any and all bids or parts thereof and to waive formalities and technicalities according to the best interests of the Village. Any bid submitted will be binding for forty-five (45) days subsequent to the date of the bid opening. A contract will be awarded to the lowest responsible bidder complying with the conditions of the contract documents only when it is in the best interest of the Village to accept the bid. The Village shall be the sole judge of compliance with the specifications and reserves the right to accept or reject any and/or all bids or parts thereof.

32. **Execution of Contract**

The successful bidder shall, within fourteen (14) days after notification of the award: (a) enter into a contract in writing with the Village covering all matters and things as are set forth in the specifications and his bid and (b) carry insurance acceptable to the Village, covering public liability, property damage, and workmen's compensation.

After the acceptance and award of the bid and upon receipt of a written purchase order executed by the proper officials of the Village, this Instruction to Bidders, including the specifications, will constitute part of the legal contract between the Village of Hanover Park and the successful bidder.

33. **Payment**

Final payment will be made within thirty (30) days after acceptance of the job by the Village after the completion of the work as covered within the contract documents. Periodic progress payments will also be paid with a 10% retainage held until final acceptance.

34. **Compliance with All Laws**

All work under the contract must be executed in accordance with all applicable federal, state, and local laws, ordinances, rules, and regulations which may in any manner affect the preparation of the bid or performance of the contract. This includes paying the prevailing rate of wages as established by the Village which requires that the Contractor and each subcontractor pay its laborers, workers, and mechanics constructing public works under this contract not less than the prevailing wages as determined by the Illinois Department of Labor pursuant to the Prevailing Wage Act (820 ILCS 130/0.01 et seq.). It shall be the responsibility of the Contractor to monitor the prevailing wage rates for any increase in rates during the contract and adjust wage rates accordingly. The current prevailing wage rates are available on the Illinois Department of Labor web site at [www.state.il.us/agency/idol](http://www.state.il.us/agency/idol) or by calling the Village of Hanover Park at 630-823-5700.

The Contractor and its subcontractors shall comply with Section 5 of the Act that requires the Contractor and its subcontractors to submit to the Village monthly certified payroll records along with a statement affirming that such records are true and accurate, that the wages paid to each worker are not less than the required prevailing rate and that the Contractor or subcontractor is aware that filing records it knows to be false is a Class B misdemeanor. Each month's certified payroll(s) must be filed with the Village before the end of the next month or prior to payment by the Village for work that includes that payroll.

35. **Contract Alterations**

No amendment of a contract shall be valid unless made in writing and signed by the Village Manager or his authorized agent.

36. **Notices**

All notices required by the contract shall be given in writing.

37. **Nonassignability**

The Contractor shall not assign the contract, or any part thereof, to any other person, firm, or corporation without the previous written consent of the Village Manager. Such assignment shall not relieve the Contractor from his obligations, or change the terms of the contract.

38. **Indemnity**

To the fullest extent permitted by law, the Contractor hereby agrees to defend, indemnify, and hold harmless the Village, its officials, agents, and employees, against all injuries, deaths, loss, damages, claims, patent claims, suits, liabilities, judgments, cost, and expenses, which may in anywise accrue against the Village, its officials, agents, and employees, arising in whole or in part or in consequence of the performance of this work by the Contractor, its employees, or subcontractors, or which may anywise result

therefore, except that arising out of the sole legal cause of the Village, its agents, or employees, the Contractor shall, at its own expense, appear, defend, and pay all charges of attorneys and all costs and other expenses arising therefore or incurred in connections therewith, and, if any judgment shall be rendered against the Village, its officials, agents, and employees, in any such action, the Contractor shall, at its own expense, satisfy and discharge the same.

Contractor expressly understands and agrees that any performance bond or insurance policies required by this contract, or otherwise provided by the Contractor, shall in no way limit the responsibility to indemnify, keep, and save harmless and defend the Village, its officials, agents, and employees as herein provided.

39. **Equal Employment Opportunity**

During the performance of the contract and/or supplying of materials, equipment, and suppliers, bidder must be in full compliance with all provisions of the Acts of the General Assembly of the State of Illinois relating to employment, including equal opportunity requirements.

40. **Default**

The Village may terminate a contract by written notice of default to the Contractor if:

- a. The Contractor fails to make delivery of the materials or perform the services within the time specified in the proposal, or
- b. fails to make progress so as to endanger performance of the contract, or
- c. fails to provide or maintain in full force and effect, the liability and indemnification coverage's or performance bond as required.

If the Village terminates the contract, the Village may procure supplies or services similar to those so terminated, and the Contractor shall be liable to the Village for any excess costs for similar supplies and services, unless the Contractor provides acceptable evidence that failure to perform the contract was due to causes beyond the control and without the fault or negligence of the Contractor.

41. **Inspection**

The Village shall have a right to inspect, by its authorized representative, any material, components, or workmanship as herein specified. Materials, components, or workmanship that have been rejected by the authorized representative as not in accordance with the terms of the specifications shall be replaced by the Contractor at no cost to the Village.

42. **Supplementary Conditions**

Wherever special conditions are written into the specifications or supplementary conditions which are in conflict with conditions stated in these Instructions to Bidder, the conditions stated in the specifications or supplementary conditions shall take precedence.

43. **Insurance**

Contractor shall procure and maintain, for the duration of the contract, insurance against claims for injuries to persons or damages to property, which may arise from or in connection with the performance of the work hereunder by the Contractor, his agents, representatives, employees, or subcontractors.

In submission of a bid, the bidder is certifying that he has all insurance coverage's required by law or would normally be expected for bidder's type of business. In addition, the bidder is certifying that he has or will obtain at least the insurance coverage's on the attached Liability Insurance Contract Specifications.

**Minimum Scope of Insurance**

Coverage shall be at least as broad as:

- A. Insurance Services Office Commercial General Liability Occurrence Form CG 0001 with the Village named as additional insured, including ISO Additional Insured Endorsement CG 2010 Pre-2004 version, CG 2026 Pre-2004 version.

**CG2037 - Completed Operations – Required if box is checked**

- B. Owners and Contractors Protective Liability (OCP) policy with the Village as insured

**Required if box is checked**

- C. Insurance Service Office Business Auto Liability Coverage Form Number CA 0001, Symbol 01 "Any Auto."

- D. Workers' Compensation as required by the Workers' Compensation Act of the State of Illinois and Employers' Liability insurance.

**Coverage required for employee exposure to lead, if box is checked**

- E. Builder Risk Property Coverage with Village as loss payee.

**Required if box is checked**

- F. Environmental Impairment/Pollution Liability Coverage for pollution incidents as a result of a claim for bodily injury, property damage, or remediation costs from an incident at, on, or mitigating beyond the contracted work site. Coverage shall be extended to non-owned disposal sites resulting from a pollution incident at, on, or mitigating beyond the site; and also provide coverage for incidents occurring during transportation of pollutants.

**Required if box is checked**

### **Minimum Limits of Insurance**

Contractor shall maintain limits no less than the following, **if required under above scope:**

- A. Commercial General Liability: \$1,000,000 combined single limit per occurrence for bodily injury and property damage and \$1,000,000 per occurrence for personal injury. The general aggregate shall be twice the required occurrence limit. Minimum General Aggregate shall be no less than \$2,000,000 or a project/contract specific aggregate of \$1,000,000.
- B. Owners and Contractors Protective Liability (OCP): \$1,000,000 combined single limit per occurrence for bodily injury and property damage.
- C. Business Automobile Liability: \$1,000,000 combined single limit per accident for bodily injury and property damage.
- D. Workers' Compensation and Employers' Liability: Workers' Compensation coverage with statutory limits and Employers' Liability limits of \$500,000 per accident.
- E. Builder's Risk: Shall insure against "All Risk" of physical damage, including water damage (flood and hydrostatic pressure not excluded) on a completed replacement cost basis.
- F. Environmental Impairment/Pollution Liability: \$1,000,000 combined single limit per occurrence for bodily injury, property damage, and remediation costs.

### **Deductibles and Self-Insured Retentions**

Any deductibles or self-insured retentions must be declared to and approved by the Village. At the option of the Village, either the insurer shall reduce or eliminate such deductibles or self-insured retentions as respects the Village, its officials, agents, employees, and volunteers, or the Contractor shall procure a bond guaranteeing payment of losses and related investigation, claim administration, and defense expenses.

### **Other Insurance Provisions**

The policies are to contain, or be endorsed to contain, the following provisions:

#### **A. General Liability and Automobile Liability Coverages**

- 1. The Village, its officials, agents, employees, and volunteers are to be covered as additional insureds as respects: liability arising out of the Contractor's work, including activities performed by or on behalf of the Contractor; products and completed operations of the Contractor; premises owned, leased, or used by the Contractor; or automobiles owned, leased, hired, or borrowed by the Contractor. The coverage shall contain no special

limitations on the scope of protection afforded to the Village, its officials, agents, employees, and volunteers.

2. The Contractor's insurance coverage shall be primary as respects the Village, its officials, agents, employees, and volunteers. Any insurance or self-insurance maintained by the Village, its officials, agents, employees, and volunteers shall be excess of Contractor's insurance and shall not contribute with it.
3. Any failure to comply with reporting provisions of the policies shall not affect coverage provided to the Village, its officials, agents, employees, and volunteers.
4. The Contractor's insurance shall contain a Severability of Interests/Cross Liability clause or language stating that Contractor's insurance shall apply separately to each insured against whom claim is made or suit is brought, except with respect to the limits of the insurer's liability.
5. If any commercial general liability insurance is being provided under an excess or umbrella liability policy that does not "follow form," then the Contractor shall be required to name the Village, its officials, agents, employees, and volunteers as additional insureds.
6. All general liability coverages shall be provided on an occurrence policy form. Claims-made general liability policies will not be accepted.

**B. Workers' Compensation and Employers' Liability Coverage**

The insurer shall agree to waive all rights of subrogation against the Village, its officials, agents, employees, and volunteers for losses arising from work performed by Contractor for the Village.

1. NCCI Alternate Employer Endorsement (WC 000301) in place to insure that workers' compensation coverage applies under Contractor's coverage rather than Village's if the Village is borrowing, leasing, or in day-to-day control of Contractor's employee.

**Required if box is checked**

**C. Professional Liability (Required if box is checked )**

Professional liability insurance with limits not less than as required in the attached exhibit.

**D. All Coverages**

Each insurance policy required by this clause shall be endorsed to state that coverage shall not be suspended, voided, cancelled, reduced in coverage, or in limits except after thirty (30) days prior written notice by certified mail, return receipt requested, has been given to the Village.

### **Acceptability of Insurers**

Insurance is to be placed with insurers with a Best's rating of no less than A-, VII and licensed to do business in the State of Illinois.

### **Verification of Coverage**

Contractor shall furnish the Village with certificates of insurance naming the Village, its officials, agents, employees, and volunteers as additional insureds, and with original endorsements affecting coverage required by this clause. The certificates and endorsements for each insurance policy are to be signed by a person authorized by that insurer to bind coverage on its behalf. The certificates and endorsements may be on forms provided by the Village and are to be received and approved by the Village before any work commences. Other additional insured endorsements may be utilized, if they provide a scope of coverage at least as broad as the coverage such as ISO Additional Insured Endorsements CG 2010 or CG 2026. The Village reserves the right to request full certified copies of the insurance policies and endorsements.

### **Subcontractors**

Contractor shall include all subcontractors as insureds under its policies or shall furnish separate certificates and endorsements for each subcontractor. All coverages for subcontractors shall be subject to all of the requirements stated herein.

### **Assumption of Liability**

The Contractor assumes liability for all injury to or death of any person or persons including employees of the Contractor, any subcontractor, 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 agreement.



**Municipal Maintenance Operations**

Section Number 14 - 00000 - 02 - GM

Municipality Hanover Park

Location			Surface			Maintenance Operation		
Street	From	To	Existing Type	Length	Width	No.	Description	Quantity & Unit
Arlington Dr	Greenbrook	Keene Ct	BIT	3630	30.5	1	HMA SURFACE (TONS)	884
						2	LEVELING BINDER (MACHINE METHOD), N50	531
						3	HMA SURF REMOVAL (SY)	12302
						4	BIT MATL (PRIME) (TONS)	4.92
						5	CURB & GUTTER R&R, M3.12 (LF)	2178
						6	CURB & GUTTER R&R, M6.12 (LF)	0
						7	PAVEMENT PATCHING, CLASS "D", 4" (SY)	861
						8	PAVEMENT PATCHING, CLASS "D", 6" (SY)	0
						9	DRAIN STRUCT REBUILD (EA)	0
						10	MH ADJUST (EA)	1
						11	PCC SIDEWALK R&R (SF)	25
						12	DETECTABLE WARNINGS (SF)	18
						13	STORM SEWER FRAMES & GRATES (EA)	1
						14	PP PVT MARK, TYPE D, INLAID - 4" (LF)	1261
						15	PP PVT MARK, TYPE D, INLAID - 12" (LF)	390
						16	PP PVT MARK, TYPE D, INLAID - 24" (LF)	24
						Berkshire Dr	Yorkshire	Essex Ct.
2	LEVELING BINDER (MACHINE METHOD), N50	71						
3	HMA SURF REMOVAL (SY)	1643						
4	BIT MATL (PRIME) (TONS)	0.66						
5	CURB & GUTTER R&R, M3.12 (LF)	800						
6	CURB & GUTTER R&R, M6.12 (LF)	0						
7	PAVEMENT PATCHING, CLASS "D", 4" (SY)	115						
8	PAVEMENT PATCHING, CLASS "D", 6" (SY)	0						
9	DRAIN STRUCT REBUILD (EA)	0						
10	MH ADJUST (EA)	0						
11	PCC SIDEWALK R&R (SF)	25						
12	DETECTABLE WARNINGS (SF)	18						
13	STORM SEWER FRAMES & GRATES (EA)	1						

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**Municipal Maintenance Operations**

Section Number 14- 00000 - 02 - GM

Municipality Hanover Park

Location			Surface			Maintenance Operation		
Street	From	To	Existing Type	Length	Width	No.	Description	Quantity & Unit
						14	PP PVT MARK, TYPE D, INLAID - 4" (LF)	0
						15	PP PVT MARK, TYPE D, INLAID - 12" (LF)	0
						16	PP PVT MARK, TYPE D, INLAID - 24" (LF)	12
						17	PP PVT MARK, TYPE D, INLAID - SYM (SF)	0
Apache Dr	Fremont	Kit Carson	BIT	350	24	1	HMA SURFACE (TONS)	67
						2	LEVELING BINDER (MACHINE METHOD), N50	40
						3	HMA SURF REMOVAL (SY)	933
						4	BIT MATL (PRIME) (TONS)	0.37
						5	CURB & GUTTER R&R, M3.12 (LF)	210
						6	CURB & GUTTER R&R, M6.12 (LF)	0
						7	PAVEMENT PATCHING, CLASS "D", 4" (SY)	65
						8	PAVEMENT PATCHING, CLASS "D", 6" (SY)	0
						9	DRAIN STRUCT REBUILD (EA)	0
						10	MH ADJUST (EA)	2
						11	PCC SIDEWALK R&R (SF)	25
						12	DETECTABLE WARNINGS (SF)	18
						13	STORM SEWER FRAMES & GRATES (EA)	1
						14	PP PVT MARK, TYPE D, INLAID - 4" (LF)	0
						15	PP PVT MARK, TYPE D, INLAID - 12" (LF)	0
						16	PP PVT MARK, TYPE D, INLAID - 24" (LF)	0
						17	PP PVT MARK, TYPE D, INLAID - SYM (SF)	0
Farmington Ct	Arlington Dr	Dead End	BIT	520	24	1	HMA SURFACE (TONS)	125
						2	LEVELING BINDER (MACHINE METHOD), N50	75
						3	HMA SURF REMOVAL (SY)	1740
						4	BIT MATL (PRIME) (TONS)	0.70
						5	CURB & GUTTER R&R, M3.12 (LF)	312
						6	CURB & GUTTER R&R, M6.12 (LF)	0
						7	PAVEMENT PATCHING, CLASS "D", 4" (SY)	122
						8	PAVEMENT PATCHING, CLASS "D", 6" (SY)	0
						9	DRAIN STRUCT REBUILD (EA)	0

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**Municipal Maintenance Operations**

Section Number 14- 00000 - 02 - GM  
 Municipality Hanover Park

Location			Surface			Maintenance Operation		
Street	From	To	Existing Type	Length	Width	No.	Description	Quantity & Unit
						10	MH ADJUST (EA)	0
						11	PCC SIDEWALK R&R (SF)	25
						12	DETECTABLE WARNINGS (SF)	18
						13	STORM SEWER FRAMES & GRATES (EA)	0
						14	PP PVT MARK, TYPE D, INLAID - 4" (LF)	0
						15	PP PVT MARK, TYPE D, INLAID - 12" (LF)	0
						16	PP PVT MARK, TYPE D, INLAID - 24" (LF)	12
						17	PP PVT MARK, TYPE D, INLAID - SYM (SF)	0
Farnham Ct	Arlington Dr	Dead End	BIT	375	24	1	HMA SURFACE (TONS)	93
						2	LEVELING BINDER (MACHINE METHOD), N50	56
						3	HMA SURF REMOVAL (SY)	1294
						4	BIT MATL (PRIME) (TONS)	0.52
						5	CURB & GUTTER R&R, M3.12 (LF)	225
						6	CURB & GUTTER R&R, M6.12 (LF)	0
						7	PAVEMENT PATCHING, CLASS "D", 4" (SY)	91
						8	PAVEMENT PATCHING, CLASS "D", 6" (SY)	0
						9	DRAIN STRUCT REBUILD (EA)	0
						10	MH ADJUST (EA)	0
						11	PCC SIDEWALK R&R (SF)	25
						12	DETECTABLE WARNINGS (SF)	18
						13	STORM SEWER FRAMES & GRATES (EA)	0
						14	PP PVT MARK, TYPE D, INLAID - 4" (LF)	0
						15	PP PVT MARK, TYPE D, INLAID - 12" (LF)	0
						16	PP PVT MARK, TYPE D, INLAID - 24" (LF)	12
						17	PP PVT MARK, TYPE D, INLAID - SYM (SF)	0
Lucille Ln	Sunset	Sunset	BIT	950	28	1	HMA SURFACE (TONS)	212
						2	LEVELING BINDER (MACHINE METHOD), N50	127
						3	HMA SURF REMOVAL (SY)	2956
						4	BIT MATL (PRIME) (TONS)	1.18
						5	CURB & GUTTER R&R, M3.12 (LF)	570

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**Municipal Maintenance Operations**

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Location			Surface			Maintenance Operation		
Street	From	To	Existing Type	Length	Width	No.	Description	Quantity & Unit
						6	CURB & GUTTER R&R, M6.12 (LF)	0
						7	PAVEMENT PATCHING, CLASS "D", 4" (SY)	207
						8	PAVEMENT PATCHING, CLASS "D", 6" (SY)	0
						9	DRAIN STRUCT REBUILD (EA)	0
						10	MH ADJUST (EA)	0
						11	PCC SIDEWALK R&R (SF)	25
						12	DETECTABLE WARNINGS (SF)	18
						13	STORM SEWER FRAMES & GRATES (EA)	0
						14	PP PVT MARK, TYPE D, INLAID - 4" (LF)	0
						15	PP PVT MARK, TYPE D, INLAID - 12" (LF)	0
						16	PP PVT MARK, TYPE D, INLAID - 24" (LF)	0
						17	PP PVT MARK, TYPE D, INLAID - SYM (SF)	0
Grant Ct	Celebrity Cir	Dead End	BIT	417	24	1	HMA SURFACE (TONS)	80
						2	LEVELING BINDER (MACHINE METHOD), N50	48
						3	HMA SURF REMOVAL (SY)	1112
						4	BIT MATL (PRIME) (TONS)	0.44
						5	CURB & GUTTER R&R, M3.12 (LF)	250
						6	CURB & GUTTER R&R, M6.12 (LF)	0
						7	PAVEMENT PATCHING, CLASS "D", 4" (SY)	52
						8	PAVEMENT PATCHING, CLASS "D", 6" (SY)	0
						9	DRAIN STRUCT REBUILD (EA)	1
						10	MH ADJUST (EA)	0
						11	PCC SIDEWALK R&R (SF)	25
						12	DETECTABLE WARNINGS (SF)	18
						13	STORM SEWER FRAMES & GRATES (EA)	0
						14	PP PVT MARK, TYPE D, INLAID - 4" (LF)	0
						15	PP PVT MARK, TYPE D, INLAID - 12" (LF)	0
						16	PP PVT MARK, TYPE D, INLAID - 24" (LF)	0
						Bayside Dr	Army Trail Rd	Harbor

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Municipality Hanover Park

Location			Surface			Maintenance Operation		
Street	From	To	Existing Type	Length	Width	No.	Description	Quantity & Unit
						2	LEVELING BINDER (MACHINE METHOD), N50	121
						3	HMA SURF REMOVAL (SY)	2813
						4	BIT MATL (PRIME) (TONS)	1.13
						5	CURB & GUTTER R&R, M3.12 (LF)	633
						6	CURB & GUTTER R&R, M6.12 (LF)	0
						7	PAVEMENT PATCHING, CLASS "D", 4" (SY)	197
						8	PAVEMENT PATCHING, CLASS "D", 6" (SY)	0
						9	DRAIN STRUCT REBUILD (EA)	0
						10	MH ADJUST (EA)	1
						11	PCC SIDEWALK R&R (SF)	25
						12	DETECTABLE WARNINGS (SF)	18
						13	STORM SEWER FRAMES & GRATES (EA)	1
						14	PP PVT MARK, TYPE D, INLAID - 4" (LF)	180
						15	PP PVT MARK, TYPE D, INLAID - 12" (LF)	0
						16	PP PVT MARK, TYPE D, INLAID - 24" (LF)	20
						17	PP PVT MARK, TYPE D, INLAID - SYM (SF)	0
Greenbridge Ln	Camden	Camden	BIT	2725	24	1	HMA SURFACE (TONS)	522
						2	LEVELING BINDER (MACHINE METHOD), N50	313
						3	HMA SURF REMOVAL (SY)	7267
						4	BIT MATL (PRIME) (TONS)	2.91
						5	CURB & GUTTER R&R, M3.12 (LF)	1635
						6	CURB & GUTTER R&R, M6.12 (LF)	0
						7	PAVEMENT PATCHING, CLASS "D", 4" (SY)	509
						8	PAVEMENT PATCHING, CLASS "D", 6" (SY)	0
						9	DRAIN STRUCT REBUILD (EA)	0
						10	MH ADJUST (EA)	4
						11	PCC SIDEWALK R&R (SF)	25
						12	DETECTABLE WARNINGS (SF)	18
						13	STORM SEWER FRAMES & GRATES (EA)	0
						14	PP PVT MARK, TYPE D, INLAID - 4" (LF)	0
						15	PP PVT MARK, TYPE D, INLAID - 12" (LF)	0

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Maintenance Operation

Location			Surface			Maintenance Operation		
Street	From	To	Existing Type	Length	Width	No.	Description	Quantity & Unit
						16	PP PVT MARK, TYPE D, INLAID - 24" (LF)	0
						17	PP PVT MARK, TYPE D, INLAID - SYM (SF)	0
Baldwin Ln	Camden	Greenbridge	BIT	1225	24	1	HMA SURFACE (TONS)	235
						2	LEVELING BINDER (MACHINE METHOD), N50	141
						3	HMA SURF REMOVAL (SY)	3267
						4	BIT MATL (PRIME) (TONS)	1.31
						5	CURB & GUTTER R&R, M3.12 (LF)	735
						6	CURB & GUTTER R&R, M6.12 (LF)	0
						7	PAVEMENT PATCHING, CLASS "D", 4" (SY)	229
						8	PAVEMENT PATCHING, CLASS "D", 6" (SY)	0
						9	DRAIN STRUCT REBUILD (EA)	0
						10	MH ADJUST (EA)	3
						11	PCC SIDEWALK R&R (SF)	25
						12	DETECTABLE WARNINGS (SF)	18
						13	STORM SEWER FRAMES & GRATES (EA)	0
						14	PP PVT MARK, TYPE D, INLAID - 4" (LF)	0
						15	PP PVT MARK, TYPE D, INLAID - 12" (LF)	0
						16	PP PVT MARK, TYPE D, INLAID - 24" (LF)	0
						17	PP PVT MARK, TYPE D, INLAID - SYM (SF)	0
Laurel Ave	Church	Barrington Rd	BIT	1300	27	1	HMA SURFACE (TONS)	280
						2	LEVELING BINDER (MACHINE METHOD), N50	168
						3	HMA SURF REMOVAL (SY)	3900
						4	BIT MATL (PRIME) (TONS)	1.56
						5	CURB & GUTTER R&R, M3.12 (LF)	1780
						6	CURB & GUTTER R&R, M6.12 (LF)	0
						7	PAVEMENT PATCHING, CLASS "D", 4" (SY)	273
						8	PAVEMENT PATCHING, CLASS "D", 6" (SY)	0
						9	DRAIN STRUCT REBUILD (EA)	0
						10	MH ADJUST (EA)	0
						11	PCC SIDEWALK R&R (SF)	25
						12	DETECTABLE WARNINGS (SF)	18

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Municipality Hanover Park

Location			Surface			Maintenance Operation		
Street	From	To	Existing Type	Length	Width	No.	Description	Quantity & Unit
						13	STORM SEWER FRAMES & GRATES (EA)	1
						14	PP PVT MARK, TYPE D, INLAID - 4" (LF)	640
						15	PP PVT MARK, TYPE D, INLAID - 12" (LF)	162
						16	PP PVT MARK, TYPE D, INLAID - 24" (LF)	50
						17	PP PVT MARK, TYPE D, INLAID - SYM (SF)	90
Cherry Ave	Center Ave	West Ave	BIT	650	24	1	HMA SURFACE (TONS)	125
						2	LEVELING BINDER (MACHINE METHOD), N50	75
						3	HMA SURF REMOVAL (SY)	1733
						4	BIT MATL (PRIME) (TONS)	0.69
						5	CURB & GUTTER R&R, M3.12 (LF)	0
						6	CURB & GUTTER R&R, M6.12 (LF)	390
						7	PAVEMENT PATCHING, CLASS "D", 4" (SY)	121
						8	PAVEMENT PATCHING, CLASS "D", 6" (SY)	0
						9	DRAIN STRUCT REBUILD (EA)	1
						10	MH ADJUST (EA)	2
						11	PCC SIDEWALK R&R (SF)	25
						12	DETECTABLE WARNINGS (SF)	18
						13	STORM SEWER FRAMES & GRATES (EA)	0
						14	PP PVT MARK, TYPE D, INLAID - 4" (LF)	0
						15	PP PVT MARK, TYPE D, INLAID - 12" (LF)	0
						16	PP PVT MARK, TYPE D, INLAID - 24" (LF)	12
						17	PP PVT MARK, TYPE D, INLAID - SYM (SF)	0
Farmstead Ln	Hartmann Dr	Taylor St	BIT	1000	24	1	HMA SURFACE (TONS)	97
						2	LEVELING BINDER (MACHINE METHOD), N50	58
						3	HMA SURF REMOVAL (SY)	1335
						4	BIT MATL (PRIME) (TONS)	0.54
						5	CURB & GUTTER R&R, M3.12 (LF)	0
						6	CURB & GUTTER R&R, M6.12 (LF)	0
						7	PAVEMENT PATCHING, CLASS "D", 4" (SY)	0
						8	PAVEMENT PATCHING, CLASS "D", 6" (SY)	1355
						9	DRAIN STRUCT REBUILD (EA)	0
						10	MH ADJUST (EA)	0
						11	PCC SIDEWALK R&R (SF)	0

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Municipality Hanover Park

Location			Surface			Maintenance Operation		
Street	From	To	Existing Type	Length	Width	No.	Description	Quantity & Unit
						12	DETECTABLE WARNINGS (SF)	0
						13	STORM SEWER FRAMES & GRATES (EA)	0
						14	PP PVT MARK, TYPE D, INLAID - 4" (LF)	0
						15	PP PVT MARK, TYPE D, INLAID - 12" (LF)	0
						16	PP PVT MARK, TYPE D, INLAID - 24" (LF)	0
						17	PP PVT MARK, TYPE D, INLAID - SYM (SF)	0
STP 1.(NON MFT)	Greenbrook	Dead End	BIT	1217	33	1	HMA SURFACE (TONS)	321
						2	LEVELING BINDER (MACHINE METHOD), N50	192
						3	HMA SURF REMOVAL (SY)	4463
						4	BIT MATL (PRIME) (TONS)	1.78
						5	CURB & GUTTER R&R, M3.12 (LF)	0
						6	CURB & GUTTER R&R, M6.12 (LF)	0
						7	PAVEMENT PATCHING, CLASS "D", 4" (SY)	400
						8	PAVEMENT PATCHING, CLASS "D", 6" (SY)	0
						9	DRAIN STRUCT REBUILD (EA)	0
						10	MH ADJUST (EA)	0
						11	PCC SIDEWALK R&R (SF)	0
						12	DETECTABLE WARNINGS (SF)	0
						13	STORM SEWER FRAMES & GRATES (EA)	0
						14	PP PVT MARK, TYPE D, INLAID - 4" (LF)	0
						15	PP PVT MARK, TYPE D, INLAID - 12" (LF)	0
						16	PP PVT MARK, TYPE D, INLAID - 24" (LF)	0
						17	PP PVT MARK, TYPE D, INLAID - SYM (SF)	0

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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	<b>Reserved</b> .....	125
LRS 2	<input type="checkbox"/> Furnished Excavation (Eff. 1-1-99) (Rev. 1-1-07).....	126
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## STATE OF ILLINOIS SPECIAL PROVISIONS

The following Special Provisions supplement the "Standard Specifications for Road and Bridge Construction," adopted January 1, 2013, the latest edition of the "Illinois 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 for bids, and the "Supplemental Specifications and recurring Special Provisions adopted January 1, 2013, indicated on the Check Sheet included herein which apply to and govern the proposed improvement designated as Section 14-00000-02-GM and in case of conflict with any part or parts of said specifications, the said Special Provisions shall take precedence and shall govern.

### **Prequalification of Bidders**

In accordance with special provision LRS6 of the Standard Specifications prequalification will be required of all bidders on this proposal.

### **Project Description**

The proposed construction consists of the following two projects:

1. Project 1 (MFT) – Street Resurfacing

This project shall consist of hot mix asphalt overlay (1 1/4" plus 3/4" leveling binder) with miscellaneous pavement marking on 13 various Hanover Park streets. Prior to the overlays, preparatory work will be done consisting of pavement milling, pavement patching, manhole adjustments, rebuilding drainage structures, curb and gutter and sidewalk removal and replacement. No construction work shall begin prior to 7:00 a.m. The contractor shall contact the Village's material inspector, who will be designated at the preconstruction meeting, a minimum of 48 hours prior to any material deliveries.

2. Project 2 (NON-MFT) – STP 1 Pavement Rehab

This project shall consist of 4,463 square yards of 2-inch (2") grinding, 321 tons of surface, 192 tons of leveling binder, 1.78 tons of prime coat, and 400 square yards of 4-inch (4") patching. See EXHIBIT "AA."

### **Project Location**

The work specified herein shall be performed on the Village streets specified on Form BLR 14232 and shown on the attached Exhibit "D".

### **Bituminous Materials - (Prime Coat)**

Prime coat shall be in accordance with Article 406.02 of the Standard Specifications.

The rate of application shall be .05 to .10 gallons per square yard as determined by the Engineer prior to application.

For bidding purposes only, a figure of .10 gallons per square yard will be assumed. This item will be paid for at the contract unit price per actual ton applied.

Prime coat shall not be down for more than five (5) calendar days before the overlay is constructed. If more than five (5) days elapses, the Contractor will be required to reprime at his own expense. If deemed necessary by the engineer, sand shall be spread on the primed pavement, the cost of which shall be considered incidental.

The Contractor shall supply "Fresh Oil" signs and manpower to handle such signs as directed by the Engineer prior to application of this material. These signs shall be in accordance with the Illinois Manual on Uniform Traffic Control Devices and shall be the orange metallic type. Small paper or cardboard signs will not be acceptable.

**Manholes To Be Adjusted**

This item shall consist of all work necessary to adjust the grade of existing manholes to conform to the finished pavement grade. It will also consist of adjustment of existing storm sewer grates at locations where curb and gutter is replaced and shall include any patching needed on the inlet structure and shall also include replacing existing masonry blocks up to a depth of 24 inches as directed by the engineer. Work shall be in accordance with the applicable portions of Section 602 of the "Standard Specifications."

If excavation is necessary to achieve the adjustment, the hole formed around the casting shall be filled with Class "SI" concrete. Rubber or high density polyethylene adjusting rings along with the manufacturer's recommended sealant shall be required to bring the adjacent pavement back to grade. Concrete adjustment rings will not be allowed. Any manhole damaged by the Contractor shall be repaired or be replaced, if necessary at his expense.

All work shall be performed in a manner approved by the Village Engineer.

This work will be paid for at the contract unit price each for manholes to be adjusted.

**Hot Mix Asphalt Surface Removal**

This work shall consist of removing the existing hot mix asphalt surface from those areas as directed by the Engineer.

This work shall be done in accordance with applicable portions of Section 440 and the following:

In those areas where removal is required to construct a butt joint with the existing pavement, the existing surface shall be removed to a depth of two inches (2").

This item shall consist of the removal of a six-foot (6') wide wedge of existing hot mix asphalt surface at the overlay terminus points (butt joints) and a three-foot (3') wide wedge of existing hot mix asphalt surface at existing curbs, both of which are detailed on Exhibit "A", for the following streets:

STREET	FROM	TO
None		

The remaining streets will require hot mix asphalt surface removal to a depth of two inches (2") for the entire width and length of the street. Farmstead Ln. will require a 6-inch (6") Class D patch for the entire length of the street, 6-feet (6') wide at the curb line, as well as a 2-inch (2") surface course. See Exhibit D, Sheet 4 of 5.

Hot mix asphalt surface removal "grindings" shall not be stock piled but removed from the area of work on a daily basis. The areas of collected "grindings" shall be swept clean as part of the removal procedure.

If the edge attained does not meet with the Engineer's specifications, he may require the Contractor to saw cut a new edge at his own expense.

The location of the butt joints included in these specifications shall be marked with orange or pink paint on the pavement by the Engineer. Section 440.08 shall be revised as follows:

**Basis of Payment:**

This work shall be paid for at the contract unit price per square yard for HOT MIX ASPHALT SURFACE REMOVAL, including any required saw cutting.

**PCC Sidewalk Removal and Replacement**

All public walks requiring replacement shall be not less than five (5) inches thick (6" at driveways) class "SI" Portland concrete cement poured on a two (2) inch compacted granular sub-base of a width to match the existing walkways or as designated by the Engineer. The Engineer will mark all public walkways to be replaced with an orange or pink "X".

All public walks removed and replaced shall be in accordance with the applicable portions of Sections 440, 424 and 1001 of the "Standard Specifications" and the Illinois Accessibility Code Standard 424001. A large majority of the sidewalk will be curb ramps and shall require the inverted domes detectable warnings in accordance with Standard 424001. The color shall be color number 30166 of Federal Standard 595 and shall be an integral part of the concrete. Precast panels made of a composite polymer material manufactured by ARMORCAST or approved equal will also be allowed.

**Basis of Payment:**

This work shall be paid for at the contract unit price per square foot for PCC SIDEWALK REMOVAL AND REPLACEMENT and at the contract unit price per square foot for DETECTABLE WARNINGS.

**Curb and Gutter Removal and Replacement**

This item shall consist of the removal of existing concrete curb and gutter and disposal thereof, and the installation of new roll type concrete curb and gutter, M3.12, or B6.12 curb and gutter. All curb and gutter shall be in accordance with Exhibit "B" of these specifications. It is anticipated that the removal of the existing curb and gutter will be done in such a manner by the contractor that a face board will not be needed and the concrete will be poured up to the edge of existing street pavement. However, the Engineer reserves the right to require a face board form if the removal is not done cleanly or if the pavement edge is jagged when exposed.

The disposal of the existing removed concrete shall be the sole responsibility of the contractor. The removal shall be in a timely manner and shall not create a road hazard or damage to existing parkway.

Approximate quantities and locations are detailed on Form BLR 14232 included herein. The actual locations for this work shall be marked with orange paint by the Engineer prior to construction.

All restoration in back of the curb shall be considered incidental to the cost of the curb and gutter removal and replacement. Restoration in parkway areas shall consist of two inches (2") of black

dirt and sod, 18 inches wide for the entire length of required restoration. All restoration must be completed within 10 calendar days of final paving on the last street.

Roll type curb and gutter which is replaced at an existing driveway shall be depressed as shown on Exhibit "B". The saw cutting 18 inches behind the curb and the replacement with 2 inches of hot mix asphalt surface mix or 5 inches Class SI concrete shall be considered incidental to the contract. It is anticipated that approximately 35 percent of the total quantity for curb and gutter replacement will be at driveways. Where an entire section of curb and gutter is replaced at driveway aprons the new curb and gutter shall be depressed.

The contractor shall sequence all construction affecting residential driveways in such a way as to minimize interruption to access. Access shall not be interrupted for more than five (5) consecutive days. Where construction activities cause interruption to access for more than five (5) consecutive days the contractor shall provide suitable temporary access in a timely manner and way acceptable by the Engineer. The cost of suitable temporary access shall be considered incidental to the project.

The contractor shall advise the Engineer 48 hours in advance of any construction activities that will interrupt driveway and/or road access and use. On the evening before or the morning of construction affecting driveways, the contractor shall alert and give notice to each resident so that any vehicles needing to be removed can be done so in a timely manner.

All new curb and gutter shall be poured within five (5) calendar days from the date which the old curb and gutter was removed. When wood framing used for curb and gutter is pulled, all framing materials including nails shall be immediately removed from site and the area broom cleaned. The contractor will be held liable for any damages occurring due to his failure to keep the work and travel areas broom clean.

Any materials stockpiled for construction activities shall be stored so as to minimize any road hazard and shall be kept away from normal drainage areas. All stockpiled materials shall be marked with lighted barricades. No materials shall be stockpiled without prior approval from the Engineer.

The location and placement of all equipment used for construction, when not in use, shall be prearranged between contractor and Engineer prior to placement.

**Basis of Payment:**

This work shall be paid for at the contract unit price per lineal foot of either CURB AND GUTTER REMOVAL AND REPLACEMENT, M3.12 or CURB AND GUTTER REMOVAL AND REPLACEMENT, B6.12.

**Pavement Patching, Class "D", 4"**

This item shall consist of the selective patching of areas designated by the Engineer prior to resurfacing. All patches shall be saw cut, and the saw cutting shall be considered incidental to the cost of pavement patching, Class "D", 4". The removal shall consist of removal of all pavement materials, including hot mix asphalt and stone to a depth of four inches (4"). For patches in areas which are also being ground or milled, the 4" depth shall be measured from the milled surface. The final patch shall be level with the adjacent existing pavement. All patching shall be done in conformance with Section 442 of the Standard Specifications.

**Basis of Payment:**

The exact location and sizes of all patches will be determined by the Engineer. This work shall be paid for at the contract price per square yard for PAVEMENT PATCHING, CLASS "D", 4".

**Pavement Patching, Class "D", 6"**

This item shall consist of the selective patching of areas designated by the Engineer. All patches shall be saw cut, and the saw cutting shall be considered incidental to the cost of pavement patching, Class "D", 6". The removal shall consist of removal of all pavement materials, including hot mix asphalt and stone to a depth of eight inches below final grade (8"). For patches in areas which are also being ground or milled, the 6" depth shall be measured from the milled surface. The final patch shall be level with the adjacent existing pavement. All patching shall be done in conformance with Section 442 of the Standard Specifications.

Basis of Payment:

The exact location and sizes of all patches will be determined by the Engineer. This work shall be paid for at the contract price per square yard for PAVEMENT PATCHING, CLASS "D", 6".

**Drainage Structure Rebuild**

This item shall consist of all work and materials necessary to replace existing drainage structure (inlet, catch basin or manhole) with new PCC precast structure, including making connection for all storm sewers entering and exiting the structure and replacing the frame and grate where required. A maximum of 12" rubber or HDPE adjusting rings shall be used. Existing structures shall be replaced with new precast structures as indicated on the following list:

Location	Existing Diameter in Feet	Replacement Structure Diameter in Feet	Approx. Depth in Feet	Frame & Grate Replacement Type
2180 Cherry Ave.	2	2	3	Reuse Existing
5553 Grant Ct.	3	3	4	Reuse Existing

The contractor shall verify the depth of each structure prior to ordering materials.

Basis of Payment:

This work shall be paid for at the contract unit price each for DRAINAGE STRUCTURE REBUILD and shall include granular backfill and all restoration with sod. The same unit price shall apply to all drainage structure rebuilds, regardless of each structure diameter or depth.

**Traffic Control Plan**

Traffic control shall be in accordance with the applicable sections of the Standard Specifications for Road and Bridge Construction, the applicable guidelines contained in the Illinois Manual on Uniform Traffic Control Devices for Streets and Highways, these special provisions, and any special details and Highway Standards contained herein and in the plans and the Standard Specifications for Traffic Control Items.

Special attention is called to Articles 107.09, 107.14 and 701 of the Standard Specifications for Road and Bridge Construction and the following Highway Standards relating to traffic control:

Standards:            701901            701606            701501

Details:                Traffic control and protection for side roads, intersections and driveways.

Special Provisions:    Maintenance of Roadways

## Construction and Maintenance Signs

The Contractor shall obtain, erect, maintain, and remove all signs, barricades, flagmen and other traffic control devices as may be necessary for the purpose of regulating, warning or guiding traffic. Placement and maintenance of all traffic control devices shall be as directed by the Engineer and in accordance with the applicable parts of Article 701 of the Standard Specifications and the Illinois Manual on Uniform Traffic Control Devices for Streets and Highways. All traffic protection will be considered incidental to the cost of the Contract and will not be paid for separately.

The Engineer will coordinate parking restrictions with the Village Police Department to facilitate traffic flow in the construction areas. The contractor shall schedule his work to avoid creating traffic hazards or congestion and shall maintain one lane open access for residents and emergency vehicles.

### **Heavy Equipment Movement**

The contractor shall notify the Engineer of the movement of any heavy equipment through the Village 24 hours in advance. The contractor shall comply with recommended travel routes throughout the entire Village. It shall be the responsibility of the contractor to notify State and County officials as may be appropriate with respect to movement of equipment.

### **Damages By Contractor**

The contractor shall be held liable for the timely replacement of or repair to any damages caused by him or his subcontractors during the project effort. Corrective action by the contractor shall be done to the satisfaction of the Engineer.

The contractor is further advised that if his negligence or that of his subcontractors causes safety or hazardous conditions which requires intervention or remedial action by the Village or its vendors, the contractor will be held accountable for all costs incurred.

### **Water Usage**

The contractor shall obtain a water meter complete with backflow preventer from the Village Water Department Supervisor prior to filling any equipment from Village hydrants. It shall be the responsibility of the contractor to arrange for such a meter in advance of need. While the Village will make every effort to provide the meter, supply is limited and available on a first-request basis. The contractor will be held liable for any damage to the meter.

### **Detector Loop Replacement**

This work shall consist of replacement of damaged traffic signal detector loops in accordance with the applicable portions of Section 886 of the Standard Specifications, and shall be required whenever an existing detector loop is damaged by the contractor during the grinding operation.

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 will be required to drill through the existing pavement into the appropriate handhole, and install one (1) inch unit duct conduit. Upon establishment of the duct the loop may be cut, installed, sealed and spliced to the twisted shielded controller cable in the handhole.

This work shall be paid for at the contract unit price per lineal foot for DETECTOR LOOP REPLACEMENT.

**Mobilization**

This contract contains no provisions for Mobilization. Therefore, Section 671 of the Standard Specifications is deleted.

<b>HOT-MIX ASPHALT MIXTURE REQUIREMENTS</b>		
<b>Mixture Type</b>	<b>AC Type</b>	<b>Air Voids</b>
Hot Mix Asphalt Surface Course, Mix "C", N50 (IL 9.5 mm)	PG 64 - 22	4% @ 50 Gyr.
Leveling Binder (Machine Method), N50	PG 64 - 22	4% @ 50 Gyr.
Class D Patches (HMA Binder IL-19mm)	PG 64 - 22*	4% @ 70 Gyr.

See 1 ==> THE UNIT WEIGHT USED TO CALCULATE ALL HMA SURFACE MIXTURE QUANTITIES IS 112 LBS/SQ YD/IN.

See 2 ==> \* WHEN RAP EXCEEDS 20%, THE NEW ASPHALT BINDER IN THE MIX SHALL BE PG 58-22

## **CEMENT (BDE)**

Effective: January 1, 2007

Revised: April 1, 2011

Revise Section 1001 of the Standard Specifications to read:

### **"SECTION 1001. CEMENT**

**1001.01 Cement Types.** Cement shall be according to the following.

- (a) Portland Cement. Acceptance of portland cement shall be according to the current Bureau of Materials and Physical Research's Policy Memorandum, "Portland or Blended Cement Acceptance Procedure for Qualified and Non-Qualified Plants".

Portland cement shall be according to AASHTO M 85, and shall meet the standard physical and chemical requirements. The Contractor has the option to use any type of portland cement listed in AASHTO M 85 unless a specific cement is specified for a construction item. Inorganic processing additions shall be limited to granulated blast-furnace slag according to the chemical requirements of AASHTO M 302, Class C or F fly ash according to the chemical requirements of AASHTO M 295, and cement kiln dust.

- (b) Portland-Pozzolan Cement. Acceptance of portland-pozzolan cement shall be according to the current Bureau of Materials and Physical Research's Policy Memorandum, "Portland or Blended Cement Acceptance Procedure for Qualified and Non-Qualified Plants".

Portland-pozzolan cement shall be according to AASHTO M 240 and shall meet the standard physical and chemical requirements. The Contractor has the option to use portland-pozzolan cement unless a specific cement is specified for a construction item. Inorganic processing additions shall be limited to granulated blast-furnace slag according to the chemical requirements of AASHTO M 302, Class C or F fly ash according to the chemical requirements of AASHTO M 295, and cement kiln dust. The pozzolan constituent for Type IP using Class F fly ash shall be a maximum of 25 percent of the weight (mass) of the portland-pozzolan cement. The pozzolan constituent for Type IP using Class C fly ash shall be a maximum of 30 percent of the weight (mass) of the portland-pozzolan cement. The pozzolan constituent for Type IP using microsilica or high-reactivity metakaolin shall be a maximum of ten percent. The pozzolan constituent for Type IP using other materials shall have the approval of the Engineer.

Portland-pozzolan cement may be used in concrete mixtures when the air temperature is below 40 °F (4 °C), but the Engineer may request a trial batch of the concrete mixture to show the mix design strength requirement will be met.

- (c) Portland Blast-Furnace Slag Cement. Acceptance of portland blast-furnace slag cement shall be according to the current Bureau of Materials and Physical Research's Policy

Memorandum, "Portland or Blended Cement Acceptance Procedure for Qualified and Non-Qualified Plants".

Portland blast-furnace slag cement shall be according to AASHTO M 240 and shall meet the standard physical and chemical requirements. The Contractor has the option to use portland blast-furnace slag cement unless a specific cement is specified for a construction item. Inorganic processing additions shall be limited to granulated blast-furnace slag according to the chemical requirements of AASHTO M 302, Class C or F fly ash according to the chemical requirements of AASHTO M 295, and cement kiln dust. The blast-furnace slag constituent for Type IS shall be a maximum of 35 percent of the weight (mass) of the portland blast-furnace slag cement.

Portland blast-furnace slag cement may be used in concrete mixtures when the air temperature is below 40 °F (4 °C), but the Engineer may request a trial batch of the concrete mixture to show the mix design strength requirement will be met.

- (d) Rapid Hardening Cement. Rapid hardening cement shall be used according to Article 1020.04 or when approved by the Engineer. The cement shall be on the Department's current "Approved List of Packaged, Dry, Rapid Hardening Cementitious Materials for Concrete Repairs", and shall be according to the following.
- (1) The cement shall have a maximum final set of 25 minutes, according to Illinois Modified AASHTO T 131.
  - (2) The cement shall have a minimum compressive strength of 2000 psi (13,800 kPa) at 3.0 hours, 3200 psi (22,100 kPa) at 6.0 hours, and 4000 psi (27,600 kPa) at 24.0 hours, according to Illinois Modified AASHTO T 106.
  - (3) The cement shall have a maximum drying shrinkage of 0.050 percent at seven days, according to Illinois Modified ASTM C 596.
  - (4) The cement shall have a maximum expansion of 0.020 percent at 14 days, according to Illinois Modified ASTM C 1038.
  - (5) The cement shall have a minimum 80 percent relative dynamic modulus of elasticity; and shall not have a weight (mass) gain in excess of 0.15 percent or a weight (mass) loss in excess of 1.0 percent, after 100 cycles, according to Illinois Modified AASHTO T 161, Procedure B.
- (e) Calcium Aluminate Cement. Calcium aluminate cement shall be used according to Article 1020.04 or when approved by the Engineer. The cement shall meet the standard physical requirements for Type I cement according to AASHTO M 85, except the time of setting shall not apply. The chemical requirements shall be determined according to AASHTO T 105 and shall be as follows: minimum 38 percent aluminum oxide ( $Al_2O_3$ ), maximum 42 percent calcium oxide (CaO), maximum 1 percent magnesium oxide

(MgO), maximum 0.4 percent sulfur trioxide (SO<sub>3</sub>), maximum 1 percent loss on ignition, and maximum 3.5 percent insoluble residue.

**1001.02 Uniformity of Color.** Cement contained in single loads or in shipments of several loads to the same project shall not have visible differences in color.

**1001.03 Mixing Brands and Types.** Different brands or different types of cement from the same manufacturing plant, or the same brand or type from different plants shall not be mixed or used alternately in the same item of construction unless approved by the Engineer.

**1001.04 Storage.** Cement shall be stored and protected against damage, such as dampness which may cause partial set or hardened lumps. Different brands or different types of cement from the same manufacturing plant, or the same brand or type from different plants shall be kept separate."

80166

**ALKALI-SILICA REACTION FOR PRECAST AND PRECAST PRESTRESSED CONCRETE (BDE)**

Effective: January 1, 2009

Description. This special provision is intended to reduce the risk of a deleterious alkali-silica reaction in precast and precast prestressed concrete exposed to humid or wet conditions. The special provision is not intended or adequate for concrete exposed to potassium acetate, potassium formate, sodium acetate or sodium formate. The special provision shall not apply to the dry environment (humidity less than 60 percent) found inside buildings for residential or commercial occupancy. The special provision shall also not apply to cast-in-place concrete.

Aggregate Expansion Values. Each coarse and fine aggregate will be tested by the Department for alkali reaction according to ASTM C 1260. The test will be performed with Type I or II cement having a total equivalent alkali content ( $\text{Na}_2\text{O} + 0.658\text{K}_2\text{O}$ ) of 0.90 percent or greater. The Engineer will determine the assigned expansion value for each aggregate, and these values will be made available on the Department's Alkali-Silica Potential Reactivity Rating List. The Engineer may differentiate aggregate based on ledge, production method, gradation number, or other factors. An expansion value of 0.05 percent will be assigned to limestone or dolomite coarse aggregates and 0.03 percent to limestone or dolomite fine aggregates (manufactured stone sand); however the Department reserves the right to perform the ASTM C 1260 test.

Aggregate Groups. Each combination of aggregates used in a mixture will be assigned to an aggregate group. The point at which the coarse aggregate and fine aggregate expansion values intersect in the following table will determine the group.

AGGREGATE GROUPS			
Coarse Aggregate or Coarse Aggregate Blend  ASTM C 1260 Expansion	Fine Aggregate or Fine Aggregate Blend  ASTM C 1260 Expansion		
	$\leq 0.16\%$	$> 0.16\% - 0.27\%$	$> 0.27\%$
	$\leq 0.16\%$	Group I	Group II
$> 0.16\% - 0.27\%$	Group II	Group II	Group III
$> 0.27\%$	Group III	Group III	Group IV

Mixture Options. Based upon the aggregate group, the following mixture options shall be used; however, the Department may prohibit a mixture option if field performance shows a deleterious alkali-silica reaction or Department testing indicates the mixture may experience a deleterious alkali-silica reaction.

- Group I - Mixture options are not applicable. Use any cement or finely divided mineral.
- Group II - Mixture options 1, 2, 3, 4, or 5 shall be used.
- Group III - Mixture options 1, 2 and 3 combined, 4, or 5 shall be used.

Group IV - Mixture options 1, 2 and 4 combined, or 5 shall be used.

- a) Mixture Option 1. The coarse or fine aggregates shall be blended to place the material in a group that will allow the selected cement or finely divided mineral to be used.

When a coarse or fine aggregate is blended, the weighted expansion value shall be calculated separately for the coarse and fine aggregate as follows:

$$\text{Weighted Expansion Value} = (a/100 \times A) + (b/100 \times B) + (c/100 \times C) + \dots$$

Where: a, b, c... = percentage of aggregate in the blend;  
A, B, C... = expansion value for that aggregate.

- b) Mixture Option 2. A finely divided mineral shall be used as described in 1), 2), 3), or 4) that follow. The replacement ratio is defined as "finely divided mineral:portland cement".
- 1) Class F Fly Ash. For Class PC concrete, precast products, and PS concrete, Class F fly ash shall replace 15 percent of the portland cement at a minimum replacement ratio of 1.5:1.
  - 2) Class C Fly Ash. For Class PC Concrete, precast products, and Class PS concrete, Class C fly ash with 18 percent to less than 26.5 percent calcium oxide content, and less than 2.0 percent loss on ignition, shall replace 20 percent of the portland cement at a minimum replacement ratio of 1:1; or at a minimum replacement ratio of 1.25:1 if the loss on ignition is 2.0 percent or greater. Class C fly ash with less than 18 percent calcium oxide content shall replace 20 percent of the portland cement at a minimum replacement ratio of 1.25:1.
  - 3) Ground Granulated Blast-Furnace Slag. For Class PC concrete, precast products, and Class PS concrete, ground granulated blast-furnace slag shall replace 25 percent of the portland cement at a minimum replacement ratio of 1:1.
  - 4) Microsilica or High Reactivity Metakaolin. Microsilica solids or high reactivity metakaolin shall be added to the mixture at a minimum 25 lb/cu yd (15 kg/cu m) or 27 lb/cu yd (16 kg/cu m) respectively.
- c) Mixture Option 3. The cement used shall have a maximum total equivalent alkali content ( $\text{Na}_2\text{O} + 0.658\text{K}_2\text{O}$ ) of 0.60 percent. When aggregate in Group II is involved, any finely divided mineral may be used with a portland cement.
- d) Mixture Option 4. The cement used shall have a maximum total equivalent alkali content ( $\text{Na}_2\text{O} + 0.658\text{K}_2\text{O}$ ) of 0.45 percent. When aggregate in Group II or III is involved, any finely divided mineral may be used with a portland cement.
- e) Mixture Option 5. The proposed cement or finely divided mineral may be used if the ASTM C 1567 expansion value is  $\leq 0.16$  percent when performed on the aggregate in

the concrete mixture with the highest ASTM C 1260 test result. The ASTM C 1567 test will be valid for two years, unless the Engineer determines the materials have changed significantly. The 0.20 percent autoclave expansion limit in ASTM C 1567 shall not apply.

If during the two year time period the Contractor needs to replace the cement, and the replacement cement has an equal or lower total equivalent alkali content ( $\text{Na}_2\text{O} + 0.658\text{K}_2\text{O}$ ), a new ASTM C 1567 test will not be required.

Testing. If an individual aggregate has an ASTM C 1260 expansion value  $> 0.16$  percent, an ASTM C 1293 test may be performed by the Contractor to evaluate the Department's ASTM C 1260 test result. The ASTM C 1293 test shall be performed with Type I or II cement having a total equivalent alkali content ( $\text{Na}_2\text{O} + 0.658\text{K}_2\text{O}$ ) of 0.80 percent or greater. The interior vertical wall of the ASTM C 1293 recommended container (pail) shall be half covered with a wick of absorbent material consisting of blotting paper. If the testing laboratory desires to use an alternate container or wick of absorbent material, ASTM C 1293 test results with an alkali-reactive aggregate of known expansion characteristics shall be provided to the Engineer for review and approval. If the expansion is less than 0.040 percent after one year, the aggregate will be assigned an ASTM C 1260 expansion value of 0.08 percent that will be valid for two years, unless the Engineer determines the aggregate has changed significantly.

The Engineer reserves the right to verify a Contractor's ASTM C 1293 or 1567 test result. The Engineer will not accept the result if the precision and bias for the test methods are not met.

The laboratory performing the ASTM C 1567 test shall either be accredited by the AASHTO Materials Reference Laboratory (AMRL) for ASTM C 227 under Portland Cement or Aggregate; or shall be inspected for Hydraulic Cement - Physical Tests by the Cement and Concrete Reference Laboratory (CCRL) and shall be approved by the Department. The laboratory performing the ASTM C 1293 test shall be inspected for Portland Cement Concrete by CCRL and shall be approved by the Department.

80213

## **HOT-MIX ASPHALT – ANTI-STRIPPING ADDITIVE (BDE)**

Effective: November 1, 2009

Revise the first and second paragraphs of Article 1030.04(c) of the Standard Specifications to read:

- “(c) Determination of Need for Anti-Stripping Additive. The mixture designer shall determine if an additive is needed in the mix to prevent stripping. The determination will be made on the basis of tests performed according to Illinois Modified AASHTO T 283. To be considered acceptable by the Department as a mixture not susceptible to stripping, the conditioned to unconditioned split tensile strength ratio (TSR) shall be equal to or greater than 0.85 for 6 in. (150 mm) specimens. Mixtures, either with or without an additive, with TSRs less than 0.85 for 6 in. (150 mm) specimens will be considered unacceptable. Also, the conditioned tensile strength for mixtures containing an anti-strip additive shall not be lower than the original conditioned tensile strength determined for the same mixture without the anti-strip additive.

If it is determined that an additive is required, the additive may be hydrated lime, slaked quicklime, or a liquid additive, at the Contractor's option.”

80245

## 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

## **HOT-MIX ASPHALT – DROP-OFFS (BDE)**

Effective: January 1, 2010

Revise the third paragraph of Article 701.07 of the Standard Specifications to read:

“At locations where construction operations result in a differential in elevation exceeding 3 in. (75 mm) between the edge of pavement or edge of shoulder within 3 ft (900 mm) of the edge of the pavement and the earth or aggregate shoulders, Type I or II barricades or vertical panels shall be placed at 100 ft (30 m) centers on roadways where the posted speed limit is 45 mph or greater and at 50 ft (15 m) centers on roadways where the posted speed limit is less than 45 mph.”

80250

**HOT-MIX ASPHALT - FINE AGGREGATE (BDE)**

Effective: April 1, 2010

Add the following to the gradation tables of Article 1003.01(c) of the Standard Specifications:

"FINE AGGREGATE GRADATIONS					
Grad No.	Sieve Size and Percent Passing				
	3/8	No. 4	No. 8	No. 16	No. 200
FA 22	100	6/	6/	8±8	2±2

FINE AGGREGATE GRADATIONS (Metric)					
Grad No.	Sieve Size and Percent Passing				
	9.5 mm	4.75 mm	2.36 mm	1.18 mm	75 µm
FA 22	100	6/	6/	8±8	2±2

6/ For the fine aggregate gradation FA 22, the aggregate producer shall set the midpoint percent passing, and the Department will apply a range of ± ten percent. The midpoint shall not be changed without Department approval."

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

"(a) Description. Fine aggregate for HMA shall consist of sand, stone sand, chats, slag sand, or steel slag sand. For gradation FA 22, uncrushed material will not be permitted."

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

"(c) Gradation. The fine aggregate gradation for all HMA shall be FA 1, FA 2, FA 20, FA 21, or FA 22.

Gradation FA 1, FA 2, or FA 3 shall be used when required for prime coat aggregate application for HMA."

80259

## RECLAIMED ASPHALT PAVEMENT (RAP) (BDE)

Effective: January 1, 2007

Revised: August 1, 2012

Revise Section 1031 of the Standard Specifications to read:

### "SECTION 1031. RECLAIMED ASPHALT PAVEMENT

**1031.01 Description.** Reclaimed asphalt pavement (RAP) is from the material produced by cold milling or crushing of 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.

**1031.02 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 to provide verification of the quality of the RAP to clarify appropriate stockpile.

- (a) **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 used in.

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)

- (b) **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.

- (c) 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 or other expansive material as determined by the Department.
- (d) 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 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, etc., will be unacceptable unless the contaminants are removed to the satisfaction of the Engineer. Sheet asphalt shall be stockpiled separately.

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

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

Before extraction, each field sample 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.

Evaluation of 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 $\mu\text{m}$ )	$\pm 5 \%$	
No. 200 (75 $\mu\text{m}$ )	$\pm 2.0 \%$	$\pm 4.0 \%$
Asphalt Binder	$\pm 0.4 \%$ <sup>1/</sup>	$\pm 0.5 \%$
$G_{mm}$	$\pm 0.03$	

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

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 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)".

#### 1031.04 Quality Designation of Aggregate in RAP/FRAP.

- (a) 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 (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 Article 1031.04(b)(2).
  - (2) Coarse and fine FRAP 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 BMRP 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."

**1031.05 Use of RAP/FRAP in HMA.** The use of RAP/FRAP shall be a Contractor's option when constructing HMA in all contracts. The use of RAP/FRAP in HMA shall be as follows.

- (a) 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.
- (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 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 shall be considered equivalent to limestone for frictional considerations unless produced/screened to minus 3/8 in. (10 mm).
- (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, homogeneous, or conglomerate, 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 be FRAP, homogeneous, conglomerate, or conglomerate DQ.

- (f) When the Contractor chooses the RAP option, the percentage of RAP shall not exceed the amounts indicated in the table below for a given N Design.

Max RAP Percentage

HMA Mixtures <sup>1/, 3/</sup>	Maximum % RAP		
	Ndesign	Binder/Leveling Binder	Surface
30	30	30	10
50	25	15	10
70	15 / 25 <sup>2/</sup>	10 / 15 <sup>2/</sup>	10
90	10	10	10
105	10	10	10

1/ For HMA "All Other" (shoulder and stabilized subbase) N-30, the amount of RAP shall not exceed 50% of the mixture.

2/ Value of Max % RAP if homogeneous RAP stockpile of IL-9.5 RAP is utilized.

3/ When RAP exceeds 20 percent, the high and low virgin asphalt binder grades shall each be reduced by one grade (i.e. 25 percent RAP 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 exceeds 25 percent (i.e. 26 percent RAP would require a virgin asphalt binder grade of PG64-22 to be reduced to a PG58-28).

- (g) When the Contractor chooses the FRAP option, the percentage of FRAP shall not exceed the amounts indicated in the table below for a given N Design.

(1) Level 1 Maximum FRAP Percentage.

HMA Mixtures <sup>1/, 2/</sup>	Level 1 - Maximum % FRAP		
	Ndesign	Binder/Leveling Binder	Surface
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 amount of FRAP shall not exceed 50 percent of the mixture.

- 2/ When FRAP exceeds 20 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 FRAP 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 exceeds 25 percent (i.e. 26 percent FRAP would require a virgin asphalt binder grade of PG64-22 to be reduced to a PG58-28).
- 3/ For SMA the maximum FRAP shall be 20 percent. When the FRAP usage 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 the amount of minus #4 fine fraction FRAP shall not exceed 20 percent. When the FRAP usage in IL-4.75 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).

(2) Level 2 Maximum FRAP percentage.

HMA Mixtures <sup>1/, 2/</sup>	Level 2 - Maximum % FRAP		
	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 amount of FRAP shall not exceed 50 percent of the mixture.
- 2/ When FRAP exceeds 20 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 FRAP 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 exceeds 25 percent (i.e. 26 percent FRAP would require a virgin asphalt binder grade of PG64-22 to be reduced to a PG58-28).
- 3/ For SMA the maximum FRAP shall be 20 percent. When the FRAP usage 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 the amount of minus #4 fine fraction FRAP shall not exceed 30 percent. When the FRAP usage in IL-4.75 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).

**1031.06 HMA Mix Designs.** At the Contractor's option, HMA mixtures may be constructed utilizing RAP/FRAP material meeting the above detailed requirements.

FRAP mix designs exceeding the Level 1 FRAP percentages shall be tested prior to submittal for verification, according to Illinois Modified AASHTO T324 (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	10,000	1/2 (12.5)
PG58-XX	10,000	1/2 (12.5)

RAP/FRAP 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.

**1031.07 HMA Production.** Mixture production where the FRAP 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 T324 and shall meet the requirements specified herein. FRAP mix production shall not exceed 1500 tons (1350 metric tons) or one days 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 FRAP mixture conformance is demonstrated prior to start of mix production for the contract.

The coarse aggregate in all RAP 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.

HMA plants utilizing RAP/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 RAP/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 RAP/FRAP material as a percent of the total mix to the nearest 0.1 percent.
- (8) 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.)

(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) RAP/FRAP weight to the nearest pound (kilogram).
- (6) Virgin asphalt binder weight to the nearest pound (kilogram).

- (7) Residual asphalt binder in the RAP/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 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. (37.5 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."

80172

## PREFORMED PLASTIC PAVEMENT MARKING TYPE D - INLAID (BDE)

Effective: April 1, 2012

Revise subparagraph (c) and add subparagraph (i) to Article 780.02 of the Standard Specifications:

"(c) Preformed Plastic Pavement Markings, Type B and Type C .....	1095.03
(i) Preformed Plastic Pavement Marking, Type D .....	1095.10"

Revise the first paragraph of Article 780.07(a) of the Standard Specifications to read:

"(a) Type B or D - Inlaid Application. On freshly placed HMA, the inlaid markings shall be applied before final compaction and when the pavement temperature has cooled to approximately 150 °F (65 °C) and when, in the opinion of the Engineer, the pavement is acceptable for vehicular traffic."

Revise the first paragraph of Article 780.11 of the Standard Specifications to read:

**"780.11 Inspection.** The epoxy, thermoplastic, preformed thermoplastic, preformed plastic Type B, C, or D, and polyurea pavement markings will be inspected following installation, but no later than October 15 for preformed plastic markings, November 1 for thermoplastic and preformed thermoplastic markings, and December 15 for epoxy and polyurea markings. In addition, they will be inspected following a winter performance period that extends 180 days from November 1."

Revise the ninth paragraph of Article 780.11 of the Standard Specifications to read:

"This performance inspection and performance acceptance of the epoxy, thermoplastic, preformed thermoplastic, preformed plastic Type B, C, or D, and polyurea markings shall not delay acceptance of the entire project and final payment due if the Contractor requires and receives from the subcontractor a third party "performance" bond naming the Department as obligee in the full amount of all pavement marking quantities listed in the contract, multiplied by the contract unit price. The bond shall be executed prior to acceptance and final payment of the non-pavement marking items and shall be in full force and effect until final performance inspection and performance acceptance of the epoxy, thermoplastic, preformed thermoplastic, preformed plastic, and polyurea pavement markings. Execution of the third party bond shall be the option of the Contractor."

Revise the first paragraph of Article 780.13 of the Standard Specifications to read:

**"780.13 Basis of Payment.** This work will be paid for at the contract unit prices per foot (meter) of applied line width, as specified, for THERMOPLASTIC PAVEMENT MARKING - LINE; PAINT PAVEMENT MARKING - LINE; EPOXY PAVEMENT MARKING - LINE; PREFORMED PLASTIC PAVEMENT MARKING - LINE - TYPE B, C, B - INLAID, or D -

INLAID; PREFORMED THERMOPLASTIC PAVEMENT MARKING – LINE, POLYUREA PAVEMENT MARKING TYPE I – LINE, POLYUREA PAVEMENT MARKING TYPE II - LINE; and/or per square foot (square meter) for THERMOPLASTIC PAVEMENT MARKING - LETTERS AND SYMBOLS; PAINT PAVEMENT MARKING - LETTERS AND SYMBOLS; EPOXY PAVEMENT MARKING - LETTERS AND SYMBOLS; PREFORMED PLASTIC PAVEMENT MARKING - TYPE B, C, B – INLAID, or D - INLAID - LETTERS AND SYMBOLS; PREFORMED THERMOPLASTIC PAVEMENT MARKING - LETTERS AND SYMBOLS.”

Add the following to Section 1095 of the Standard Specifications:

**“1095.10 Preformed Plastic Pavement Marking, Type D.** The preformed patterned markings shall consist of a white or yellow tape with wet retroreflective media incorporated to provide immediate and continuing retroreflection during both wet and dry conditions. The pavement marking shall be manufactured without the use of heavy metals including lead chromate pigments or other similar, lead-containing chemicals.

The white and yellow preformed plastic pavement markings shall meet the Type B requirements of Article 1095.03(b), (c), (d), (e), (i), (l), (m), (n) and the following.

- (a) **Composition.** The pliant polymer pavement markings shall consist of a mixture of high-quality polymeric materials, pigments and glass beads distributed throughout its base cross-sectional area, with a layer of wet retroreflective media bonded to a durable polyurethane topcoat surface. The patterned surface shall have approximately 40% ± 10% of the surface area raised and presenting a near vertical face to traffic from any direction. The channels between the raised areas shall be substantially free of exposed beads or particles.
- (b) **Retroreflectance.** The white and yellow markings shall meet the following for initial dry and wet retroreflectance.
  - (1) **Dry Retroreflectance.** Dry retroreflectance shall be measured under dry conditions according to ASTM D4061 and meet the values described in Article 1095.03(l) for Type B.
  - (2) **Wet Retroreflectance.** Wet retroreflectance shall be measured under wet conditions according to ASTM E2177 and meet the values shown in the following table.

<b>Wet Retroreflectance, Initial R<sub>L</sub></b>	
<b>Color</b>	<b>R<sub>L</sub> 1.05/88.76</b>
White	300
Yellow	200

- (c) **Color.** The material shall meet the following requirements for daylight reflectance and color, when tested, using a color spectrophotometer with 45 degrees circumferential/zero degree geometry, illuminant D65, and a two degree observer angle.

The color instrument shall measure the visible spectrum from 380 to 720 nm with a wavelength measurement interval and spectral bandpass of 10 nm.

Color	Daylight Reflectance %Y
White	65 minimum
*Yellow	36-59

\*Shall match Federal 595 Color No. 33538 and the chromaticity limits as follows.

x	0.490	0.475	0.485	0.530
y	0.470	0.438	0.425	0.456

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

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

80300

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 2, 2013

1. **Prevailing Wages.** All wages paid by the Contractor and each subcontractor shall be in compliance with The Prevailing Wage Act (820 ILCS 130), as amended, except where a prevailing wage violates a federal law, order, or ruling, the rate conforming to the federal law, order, or ruling shall govern. The Illinois Department of Labor publishes the prevailing wage rates on its website at [www.state.il.us/agency/idol/rates/rates.htm](http://www.state.il.us/agency/idol/rates/rates.htm). If the Illinois Department of Labor revises the prevailing wage rates, the revised prevailing wage rates on the Illinois Department of Labor's website shall apply to this contract and the Contractor will not be allowed additional compensation on account of said revisions. The Contractor shall review the wage rates applicable to the work of the contract at regular intervals in order to ensure the timely payment of current wage rates. The Contractor agrees that no additional notice is required. The Contractor shall be responsible to notify each subcontractor of the wage rates set forth in this contract and any revisions thereto.
2. **Payroll Records.** The Contractor and each subcontractor shall make and keep, for a period of not less than 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.

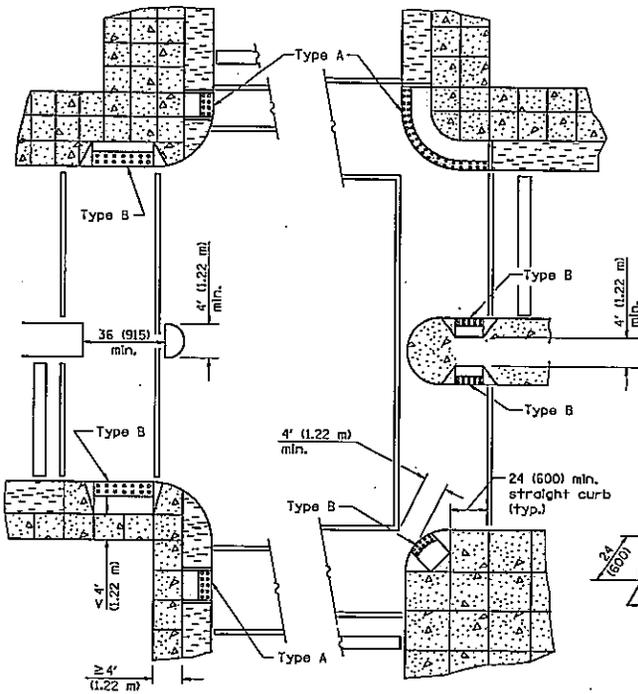
State of Illinois  
Department of Transportation  
Bureau of Local Roads and Streets  
SPECIAL PROVISION  
FOR  
CONSTRUCTION AND MAINTENANCE SIGNS

Effective: January 1, 2004  
Revised: June 1, 2007

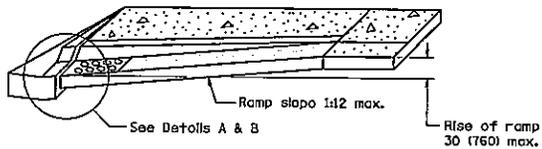
All references to Sections or Articles in this specification shall be construed to mean a specific Section or Article of the Standard Specifications for Road and Bridge Construction, adopted by the Department of Transportation.

701.14. Signs. Add the following paragraph to Article 701.14:

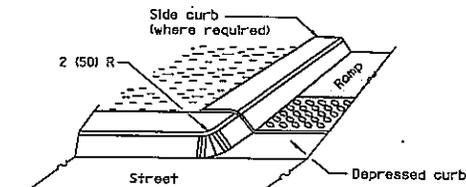
All warning signs shall have minimum dimensions of 1200 mm x 1200 mm (48" x 48") and have a black legend on a fluorescent orange reflectorized background, meeting, as a minimum, Type AP reflectivity requirements of Table 1091-2 in Article 1091.02.



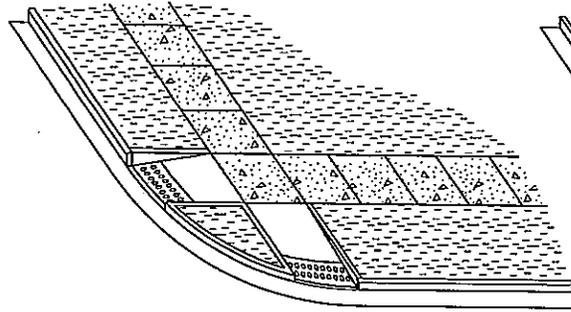
**RECOMMENDED LOCATION OF RAMPS**



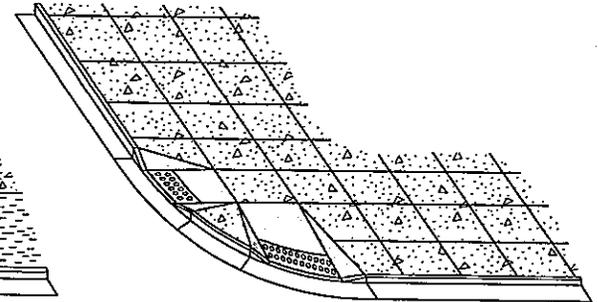
**RAMP PROFILE**



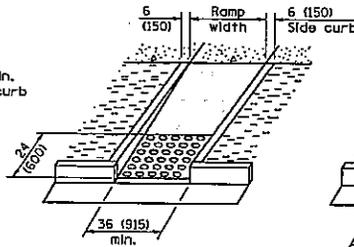
**DETAIL B**



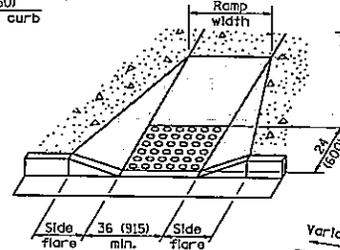
**TYPE A RAMPS**



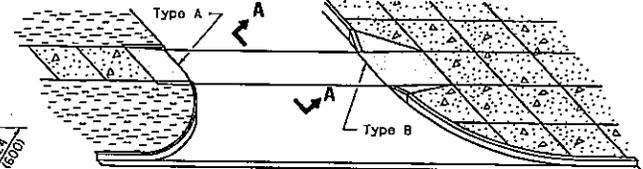
**TYPE B RAMPS**



**TYPE A**



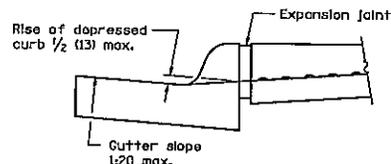
**TYPE B**



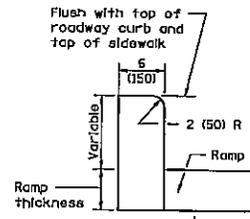
**RAMPS AT ALLEYS OR ENTRANCES**

Variable 2% max. Variable

**SECTION A-A**



**DETAIL A**



**DETAIL OF SIDE CURB**

(Side curb may be constructed monolithically with ramp)

**GENERAL NOTES**

Detectable warnings shall be installed at curb ramps, medians and pedestrian refuge islands, at-grade railroad crossings, transit platform edges, and other locations where pedestrians are required to cross a hazardous vehicular way. Detectable warnings shall also be installed at alleys and commercial entrances when permanent traffic control devices are present.

The maximum slope of the side flare for Type B ramps shall be 1:10; however, if the width of the landing area between the top of the ramp and an obstruction is less than 4'-0" (1.22 m) then the maximum slope shall be 1:12.

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.

**LEGEND**

- Sidewalk
- Ramp
- Detectable Warnings
- Non walking area

DATE	REVISIONS
1-1-08	Switched units to English (metric).
8-1-05	Revised placement of detectable warnings.
	title.

**CURB RAMPS FOR SIDEWALKS**

(Sheet 1 of 2)

STANDARD 424001-05

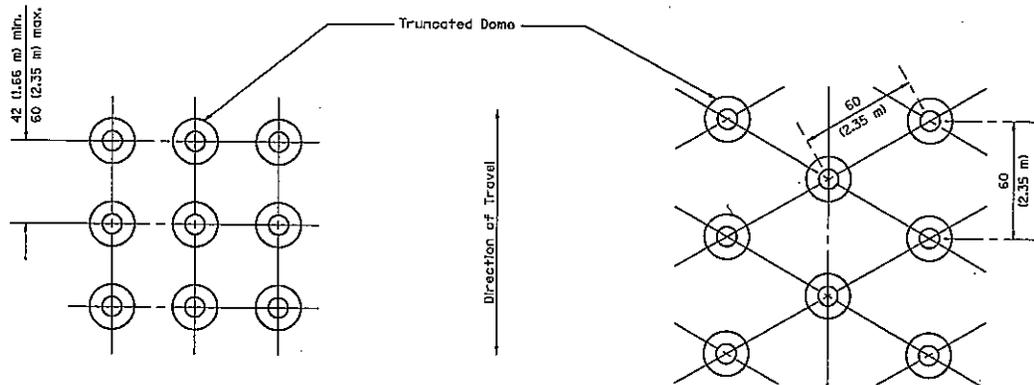
Illinois Department of Transportation

PASSED January 1, 2008

ENGINEER OF POLICY AND PROCEDURES

APPROVED January 1, 2008

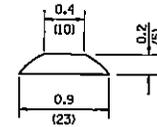
ENGINEER OF DESIGN AND ENVIRONMENT



**SQUARE PATTERN**  
(Parallel Alignment)

**TRIANGULAR PATTERN**

**DETECTABLE WARNINGS DETAIL**



**TRUNCATED DOME DETAIL**

Illinois Department of Transportation

PASSED January 1, 2008  
ENGINEER OF POLICY AND PROCEDURES

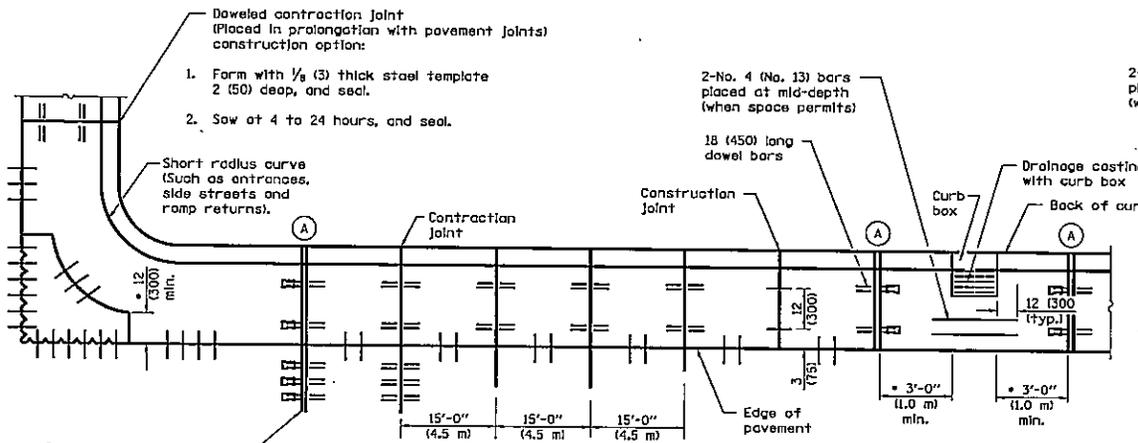
APPROVED January 1, 2008  
ENGINEER OF DESIGN AND ENVIRONMENT

ISSUED 11/2007

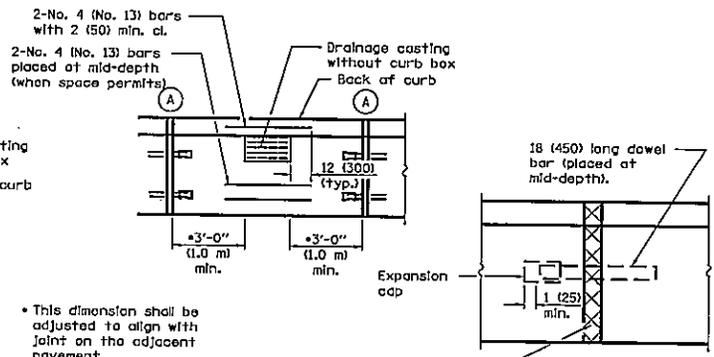
**CURB RAMPS  
FOR SIDEWALKS**

(Sheet 2 of 2)

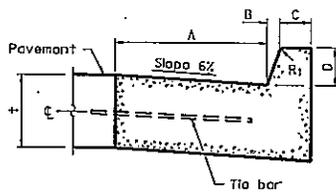
**STANDARD 424001-05**



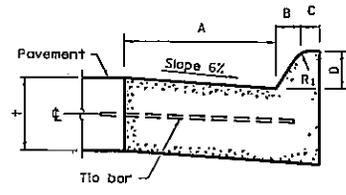
**PLAN**  
**ADJACENT TO PCC PAVEMENT OR PCC BASE COURSE**



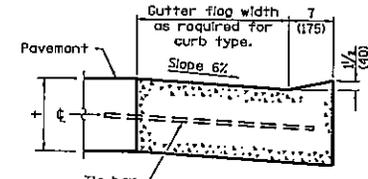
**DETAIL A**  
**EXPANSION JOINT**



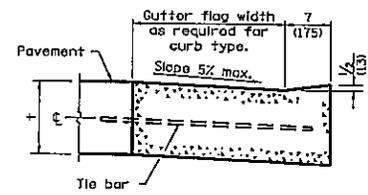
**BARRIER CURB**



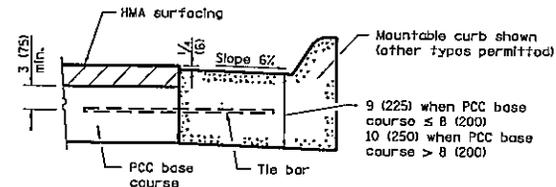
**MOUNTABLE CURB**



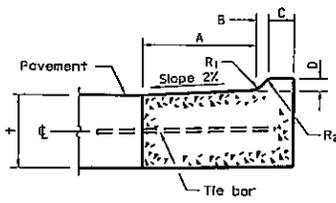
**DEPRESSED CURB (TYPICAL)**



**DEPRESSED CURB ADJACENT TO CURB RAMP ACCESSIBLE TO THE DISABLED**



**ADJACENT TO PCC BASE COURSE WITH HMA SURFACING**



**M-2.06 (M-5.15) and M-2.12 (M-5.30)**

TYPE	A	B	C	D	R <sub>1</sub>
B-6.12 (B-15.3)	12 (300)	1 (25)	6 (150)	6 (150)	1 (25)
B-6.18 (B-15.45)	18 (450)	1 (25)	6 (150)	6 (150)	1 (25)
B-6.24 (B-15.60)	24 (600)	1 (25)	6 (150)	6 (150)	1 (25)
B-9.12 (B-22.30)	12 (300)	2 (50)	5 (125)	9 (225)	1 (25)
B-9.18 (B-22.45)	18 (450)	2 (50)	5 (125)	9 (225)	1 (25)
B-9.24 (B-22.60)	24 (600)	2 (50)	5 (125)	9 (225)	1 (25)

TYPE	A	B	C	D	R <sub>1</sub>	R <sub>2</sub>
M-2.06 (M-5.15)	6 (150)	2 (4)	4 (100)	2 (50)	3 (75)	2 (50)
M-2.12 (M-5.30)	12 (300)	2 (4)	4 (100)	2 (50)	3 (75)	2 (50)
M-4.06 (M-10.15)	6 (150)	4 (3)	4 (100)	3 (75)	3 (75)	NA
M-4.12 (M-10.30)	12 (300)	4 (3)	4 (100)	3 (75)	3 (75)	NA
M-4.18 (M-10.45)	18 (450)	4 (3)	4 (100)	3 (75)	3 (75)	NA
M-4.24 (M-10.60)	24 (600)	4 (3)	4 (100)	3 (75)	3 (75)	NA
M-6.06 (M-15.15)	6 (150)	6 (2)	6 (150)	6 (150)	3 (75)	NA
M-6.12 (M-15.30)	12 (300)	6 (2)	6 (150)	6 (150)	3 (75)	NA
M-6.18 (M-15.45)	18 (450)	6 (2)	6 (150)	6 (150)	3 (75)	NA
M-6.24 (M-15.60)	24 (600)	6 (2)	6 (150)	6 (150)	3 (75)	NA

**GENERAL NOTES**

The bottom slope of combination curb and gutter constructed adjacent to pcc pavement shall be the same slope as the subbase or 6% when subbase is omitted.

† = Thickness of pavement.  
 Longitudinal joint tie bars shall be No. 6 (No. 13) at 24 (600) centers in accordance with details for longitudinal construction joint shown on Standard 420001.

A minimum clearance of 2 (50) between the end of the tie bar and the back of the curb shall be maintained.

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

Illinois Department of Transportation

PASSED January 1, 2009

ENGINEER OF POLICY AND PROCEDURES

APPROVED January 1, 2009

ENGINEER OF DESIGN AND ENVIRONMENT

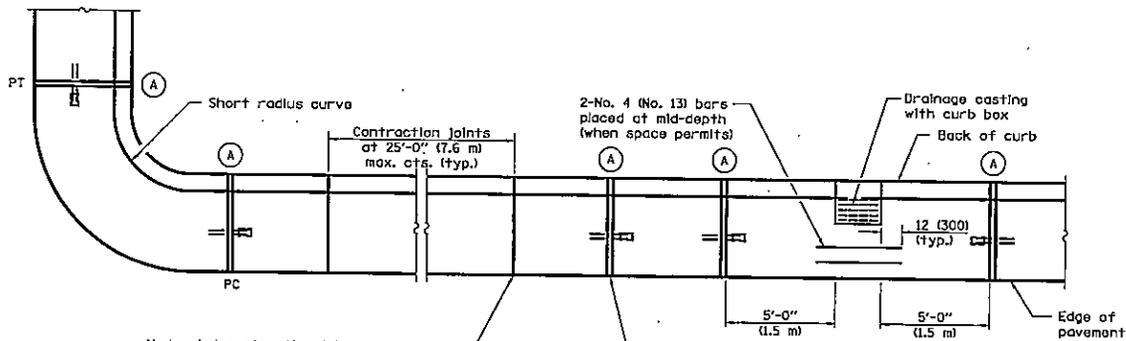
ISSUED 1-1-09

DATE	REVISIONS
1-1-09	Switched units to English (metric).
1-1-07	Switched to Hot-Mix Asphalt (HMA) terminology.

**CONCRETE CURB TYPE B AND COMBINATION CONCRETE CURB AND GUTTER**

(Sheet 1 of 2)

**STANDARD 606001-04**

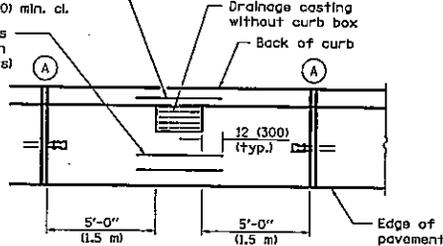


Undoweled contraction joint (typ.) construction options:

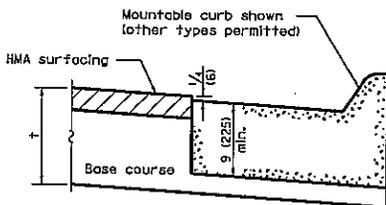
1. Form with 1/8 (3) thick steel template 2 (50) deep, and seal.
2. Saw 2 (50) deep at 4 to 24 hours, and seal.
3. Insert 3/4 (20) thick preformed joint filler full depth and width.

Construction joint  
2-No. 4 (No. 13) bars with 2 (50) min. cl.

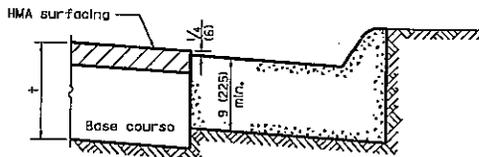
2-No. 4 (No. 13) bars placed at mid-depth (when space permits)



**PLAN**

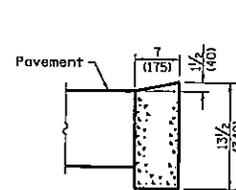


**ON DISTURBED SUBGRADE**

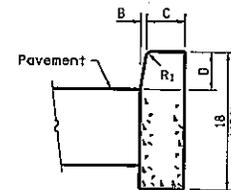


**ON UNDISTURBED SUBGRADE**

**ADJACENT TO FLEXIBLE PAVEMENT**

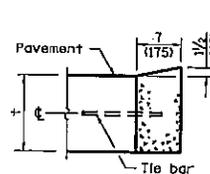


**DEPRESSED CURB**

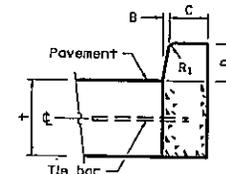


**BARRIER CURB**

**ADJACENT TO FLEXIBLE PAVEMENT**



**DEPRESSED CURB**



**BARRIER CURB**

**ADJACENT TO PCC PAVEMENT OR PCC BASE COURSE**

**CONCRETE CURB TYPE B**

Illinois Department of Transportation

PASSED January 1, 2009

ENGINEER OF POLICY AND PROCEDURES

APPROVED January 1, 2009

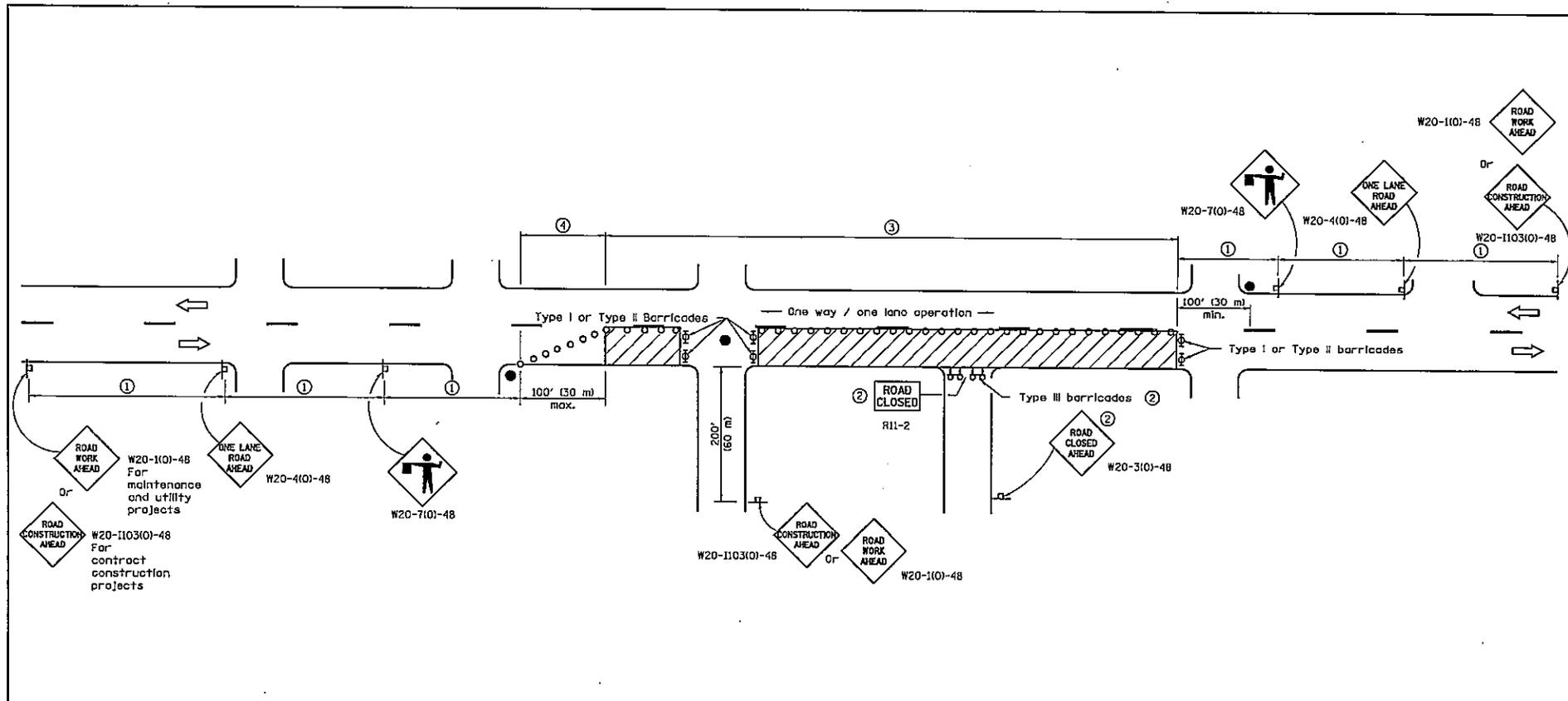
ENGINEER OF DESIGN AND ENVIRONMENT

ISSUED 1-1-09

**CONCRETE CURB TYPE B  
AND COMBINATION  
CONCRETE CURB AND GUTTER**

(Sheet 2 of 2)

STANDARD 606001-04



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 slideroad 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  
*James P. [Signature]*  
 ENGINEER OF SAFETY ENGINEERING

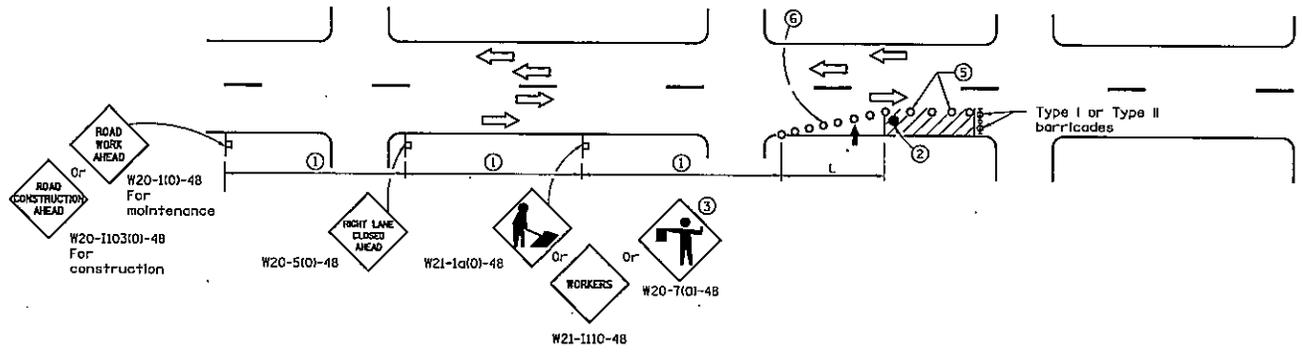
APPROVED January 1, 2011  
*[Signature]*  
 ENGINEER OF DESIGN AND ENVIRONMENT

ISSUED 1-1-11

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**



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

**SYMBOLS**

- Arrow board
- Cone, drum or barricade
- Sign on portable or permanent support
- Work area
- Barricade or drum with flashing light
- Type III barricade with flashing lights
- Flagger with traffic control sign.

- ① Refer to SIGN SPACING TABLE for distances.
- ② Required for speeds > 40 mph.
- ③ Use flagger sign only when flagger is present.
- ④ For approved sideroad closures.
- ⑤ 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.
- ⑥ Cones, drums or barricades at 6' (20 m) centers in taper.
- ⑦ Repeat every 1 mile (1.6 km).

**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 or more traffic lanes in an Urban area.

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).

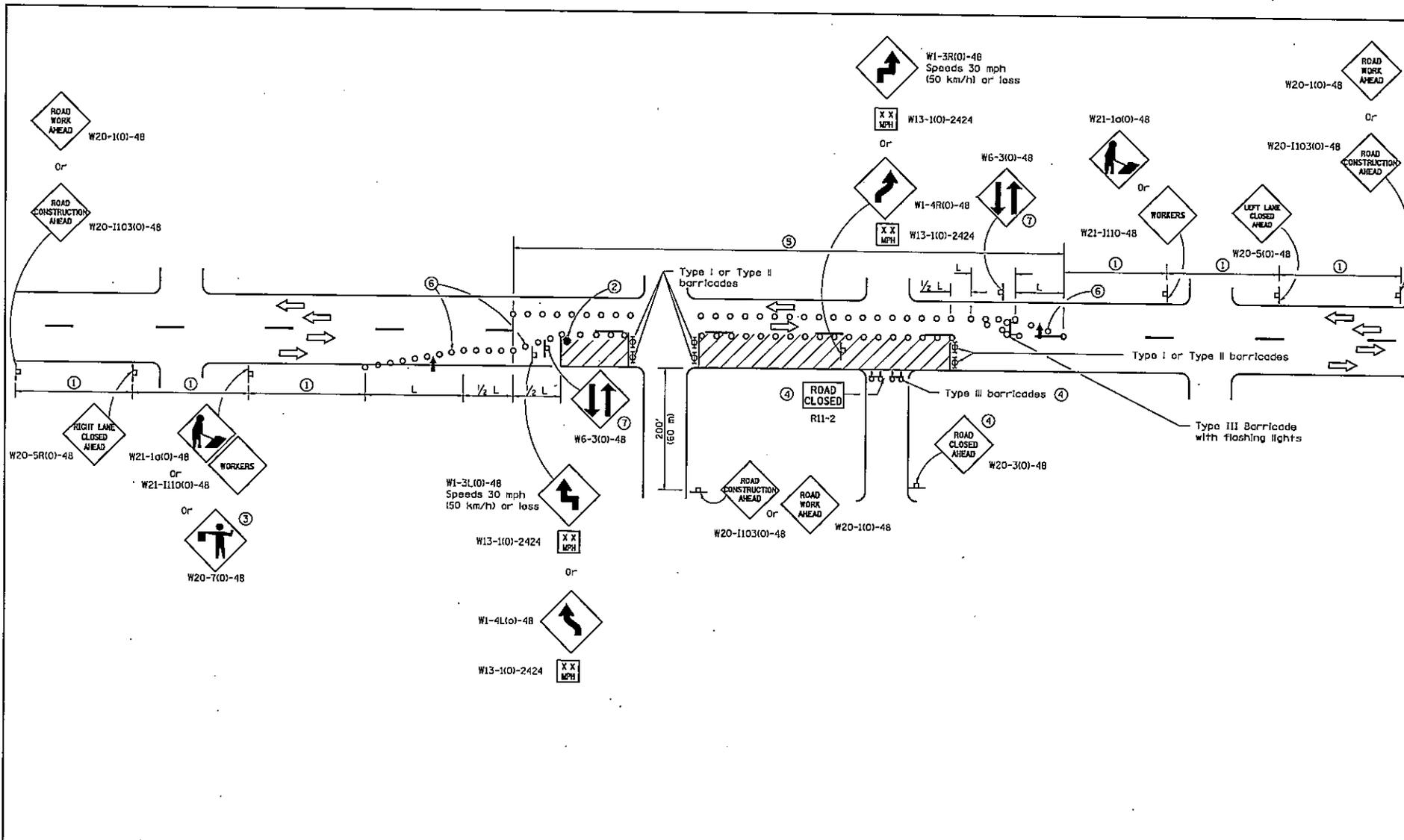
All dimensions are in inches (millimeters) unless otherwise shown.

Illinois Department of Transportation	
APPROVED January 1, 2011	ISSUED 1-1-09
ENGINEER OF SAFETY ENGINEERING	
APPROVED January 1, 2009	ENGINEER OF DESIGN AND ENVIRONMENT
ENGINEER OF DESIGN AND ENVIRONMENT	

DATE	REVISIONS
1-1-11	Revised flagger sign.
1-1-09	Switched units to English (metric), Omitted large arrow signs.

**URBAN LANE CLOSURE, MULTILANE, 2W WITH MOUNTABLE MEDIAN**  
(Sheet 1 of 2)

STANDARD 701606-07



Illinois Department of Transportation

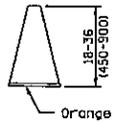
APPROVED January 1, 2011  
 ENGINEER OF SAFETY ENGINEERING

APPROVED January 1, 2011  
 ENGINEER OF DESIGN AND ENVIRONMENT

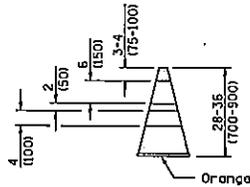
ISSUED 1-1-87

**URBAN LANE CLOSURE,  
 MULTILANE, 2W WITH  
 MOUNTABLE MEDIAN**  
 (Sheet 2 of 2)

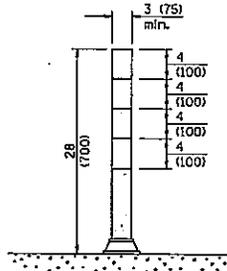
**STANDARD 701606-07**



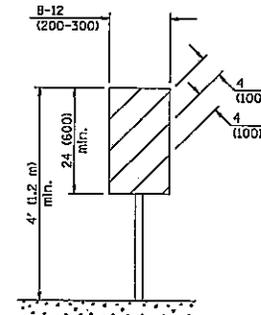
**CONE**



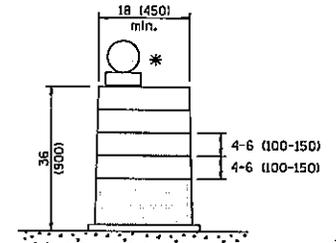
**REFLECTORIZED CONE**



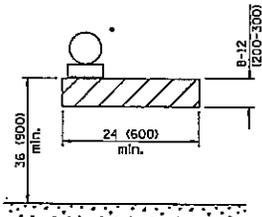
**FLEXIBLE DELINEATOR**



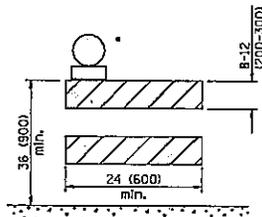
**VERTICAL PANEL  
POST MOUNTED**



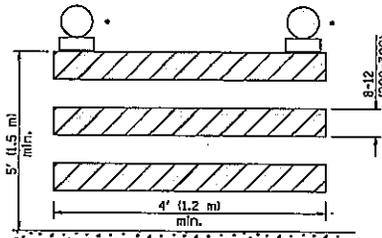
**DRUM**



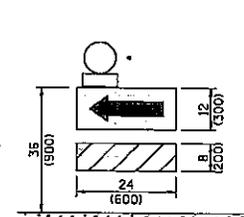
**TYPE I BARRICADE**



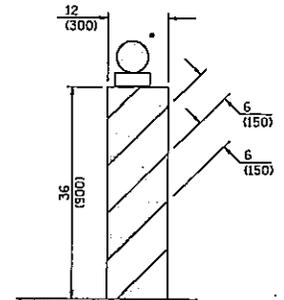
**TYPE II BARRICADE**



**TYPE III BARRICADE**



**DIRECTION INDICATOR  
BARRICADE**



**VERTICAL BARRICADE**

\* Warning lights (if required)

**GENERAL NOTES**

All heights shown shall be measured above the pavement surface.

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

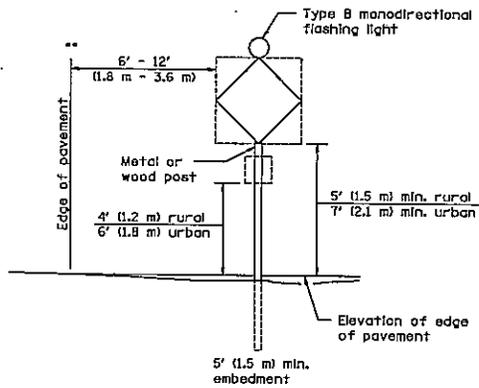
**TRAFFIC CONTROL  
DEVICES**

(Sheet 1 of 3)

**STANDARD 701901-01**

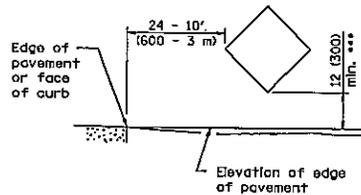
DATE	REVISIONS
1-1-09	Switched units to English (metric). Omitted light on vertical panel.
1-1-08	Renumbered Standard 702001-06, Rev. note for temp. signs on Sheet 2.

Illinois Department of Transportation	
APPROVED January 1, 2009	ISSUED 1-1-09
ENGINEER OF OPERATIONS	
APPROVED January 1, 2008	
ENGINEER OF DESIGN AND ENVIRONMENT	



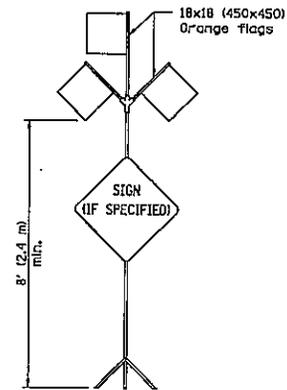
**POST MOUNTED SIGNS**

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



**SIGNS ON TEMPORARY SUPPORTS**

\*\*\* When work operations exceed 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**

ROAD  
CONSTRUCTION  
NEXT X MILES

END  
CONSTRUCTION

G20-1(K)-6036

G20-2a(K)-6024

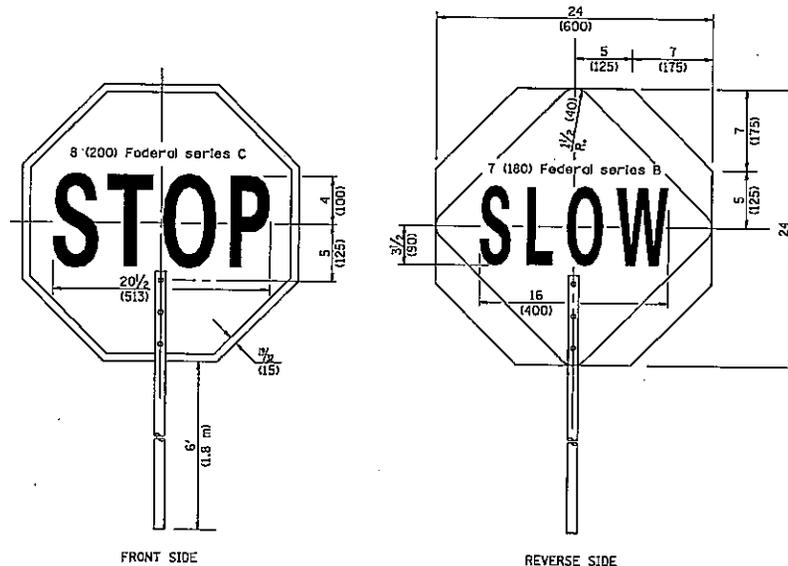
This signing is required for all projects 2 miles (3200 m) or more in length.

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)

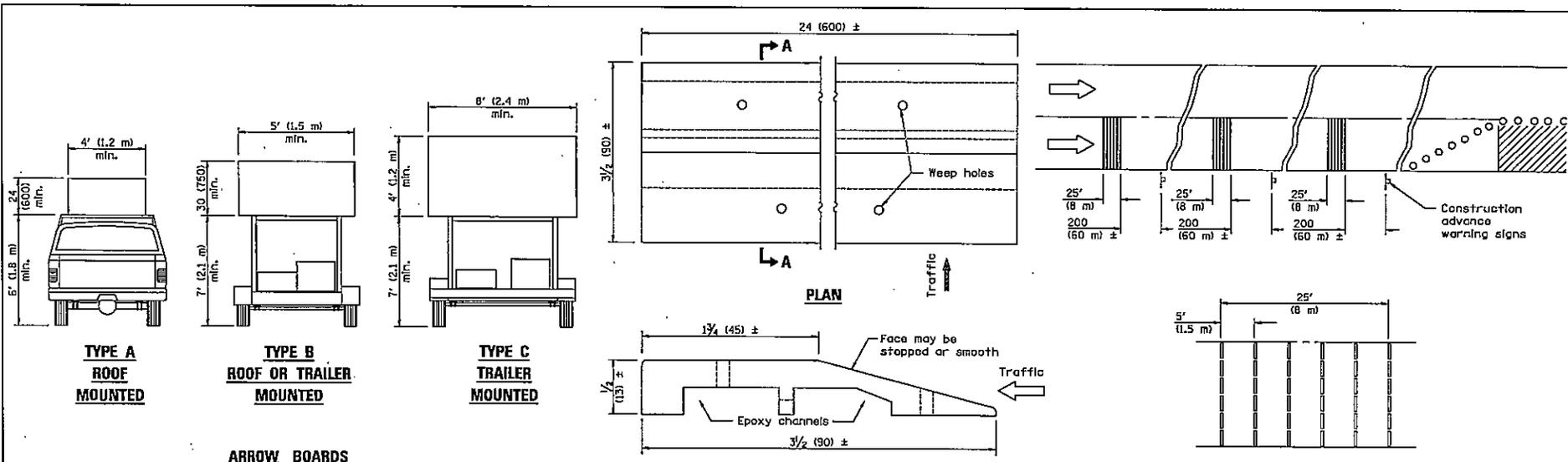
STANDARD 701901-01

Illinois Department of Transportation

APPROVED January 1, 2009  
ENGINEER OF OPERATIONS

APPROVED January 1, 2009  
ENGINEER OF DESIGN AND ENVIRONMENT

153036  
44-1-97



**TYPE A**  
**ROOF**  
**MOUNTED**

**TYPE B**  
**ROOF OR TRAILER**  
**MOUNTED**

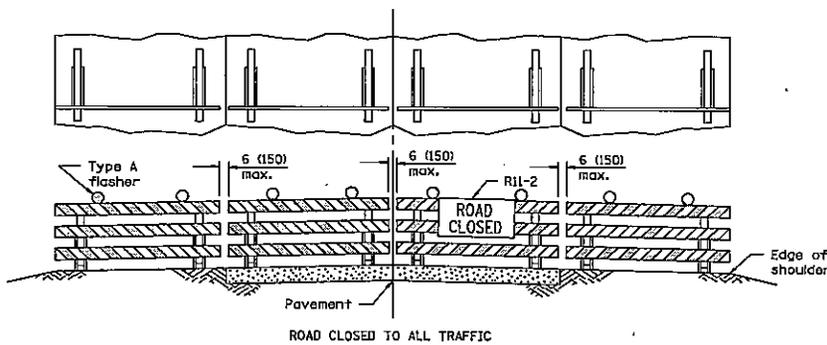
**TYPE C**  
**TRAILER**  
**MOUNTED**

**ARROW BOARDS**

**SECTION A-A**

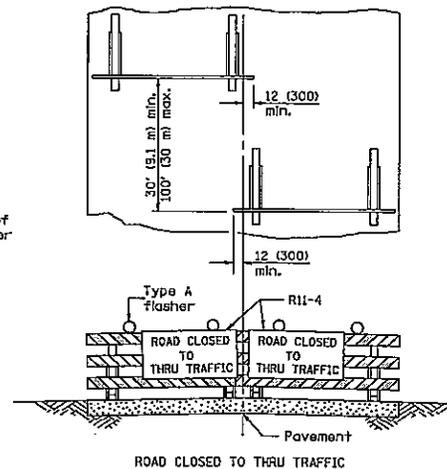
**TYPICAL INSTALLATION**

**TEMPORARY RUMBLE STRIPS**



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**



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.

**TRAFFIC CONTROL**  
**DEVICES**

(Sheet 3 of 3)

**STANDARD 701901-01**

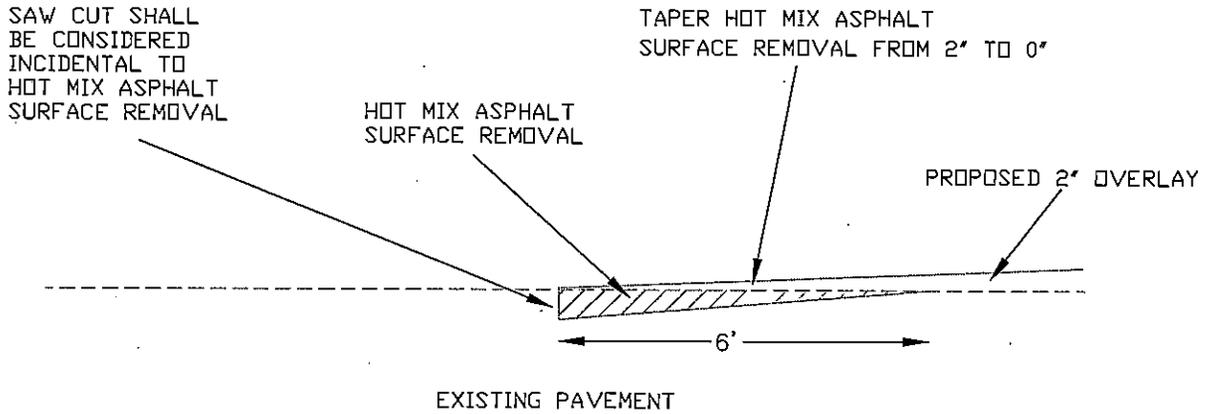
Illinois Department of Transportation

APPROVED January 1, 2009  
ENGINEER OF OPERATIONS

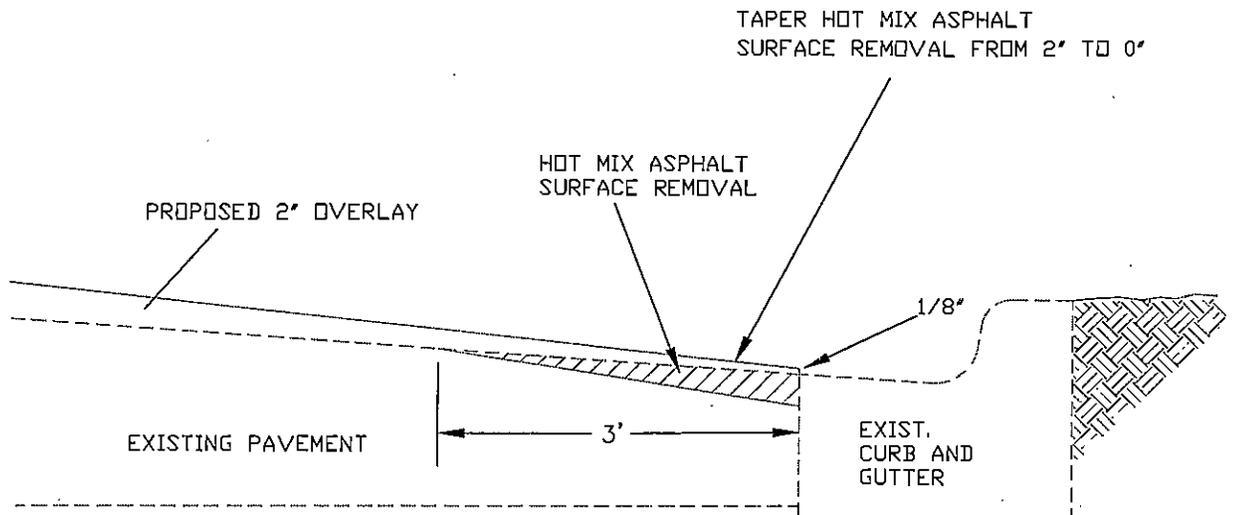
ISSUED 11-97

APPROVED January 1, 2009  
ENGINEER OF DESIGN AND ENVIRONMENT

# EXHIBIT "A"



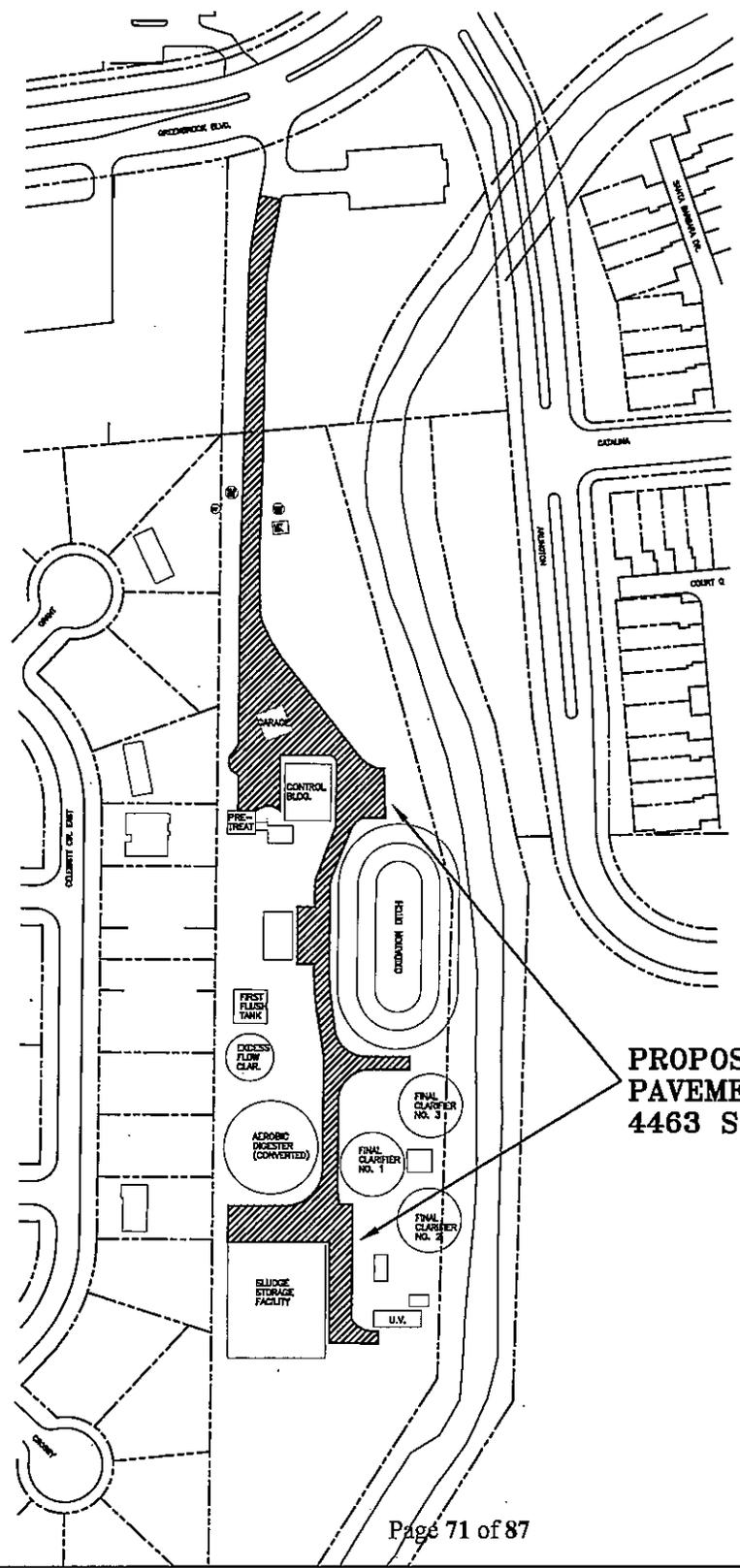
## 6' HOT MIX ASPHALT SURFACE REMOVAL (BUTT JOINT)



## 3' HOT MIX ASPHALT SURFACE REMOVAL AT CURB AND GUTTER

# EXHIBIT AA

## STP 1 PAVEMENT REHAB.

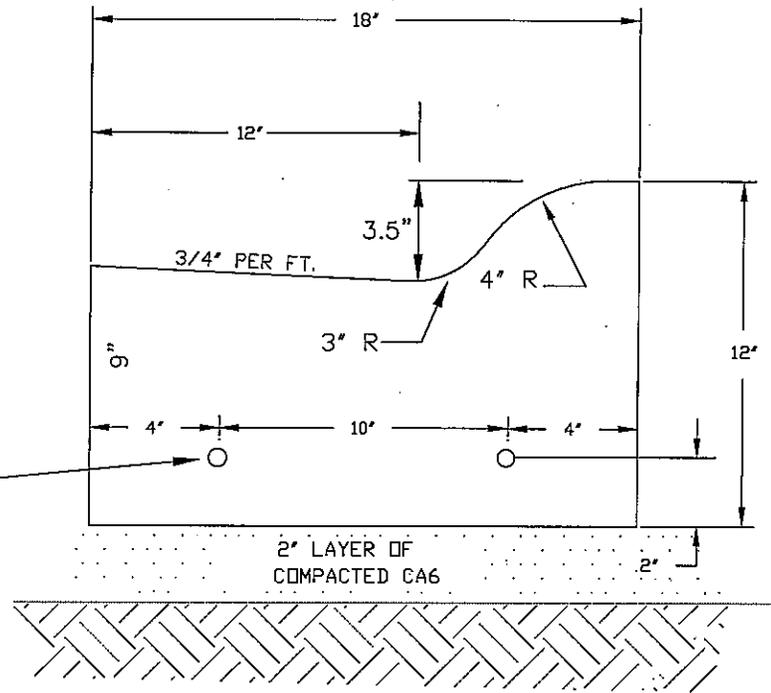


**PROPOSED  
PAVEMENT REHAB,  
4463 SQ. YD.**

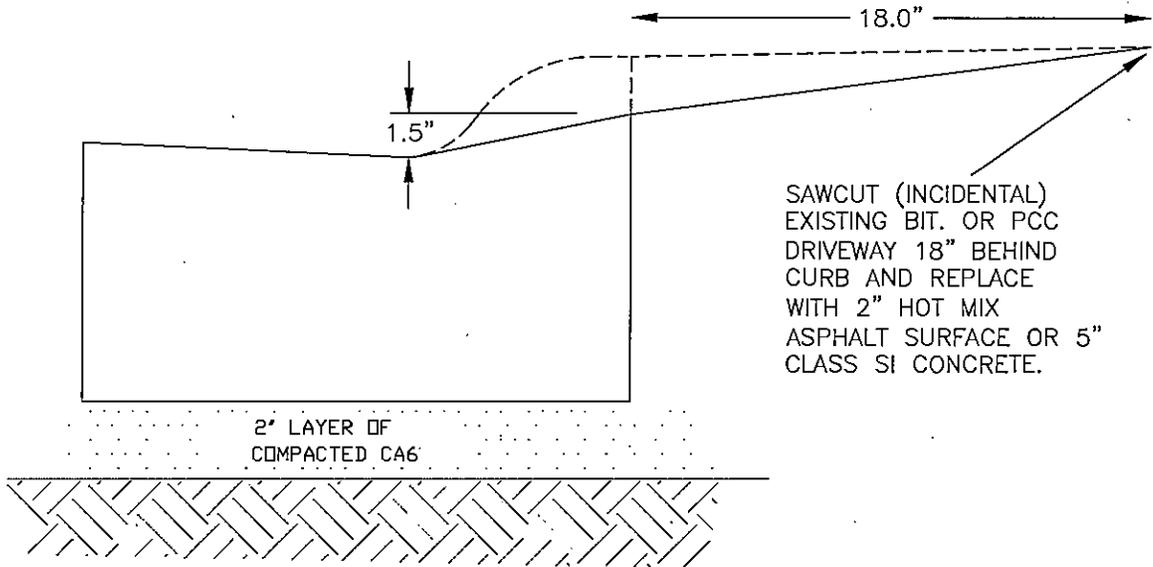
# EXHIBIT "B" (1 of 2)

EXPANSION JOINTS EVERY 60'.  
SAW CONSTRUCTION JOINTS EVERY 15' AT 3" DEPTH

2 NO. 5 DOWEL BARS AT EXPANSION JOINTS.



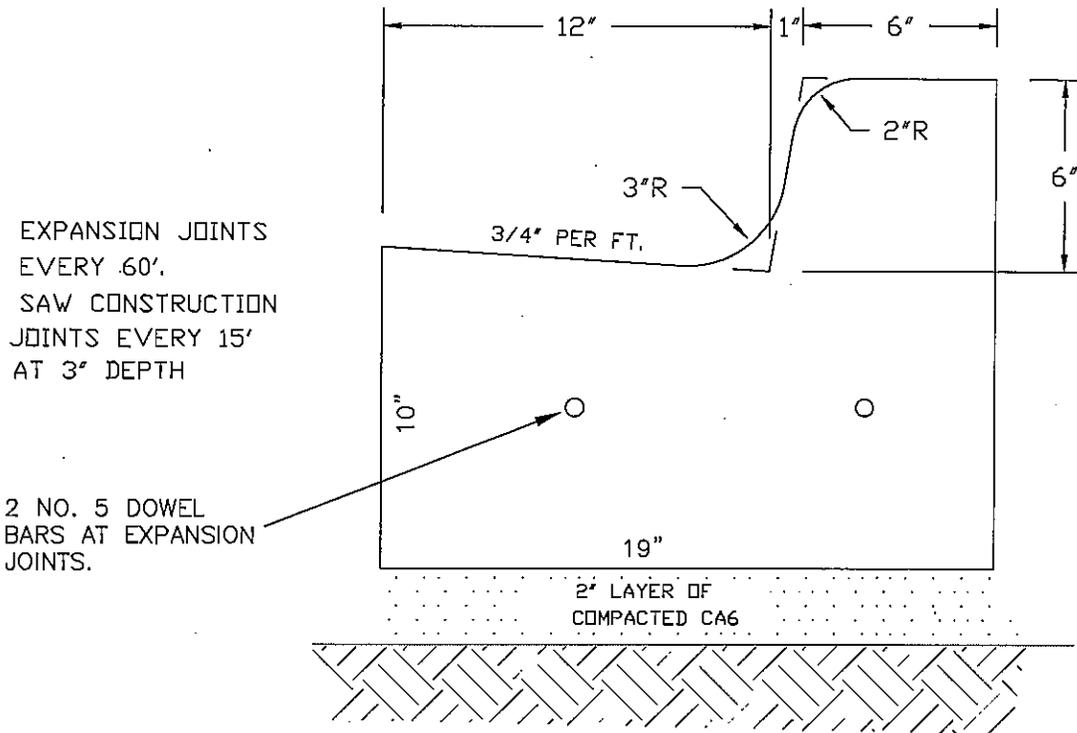
M3.12 CURB & GUTTER



SAWCUT (INCIDENTAL) EXISTING BIT. OR PCC DRIVEWAY 18" BEHIND CURB AND REPLACE WITH 2" HOT MIX ASPHALT SURFACE OR 5" CLASS SI CONCRETE.

DEPRESSED M3.12 CURB & GUTTER AT DRIVEWAY

# EXHIBIT "B" (2 of 2)



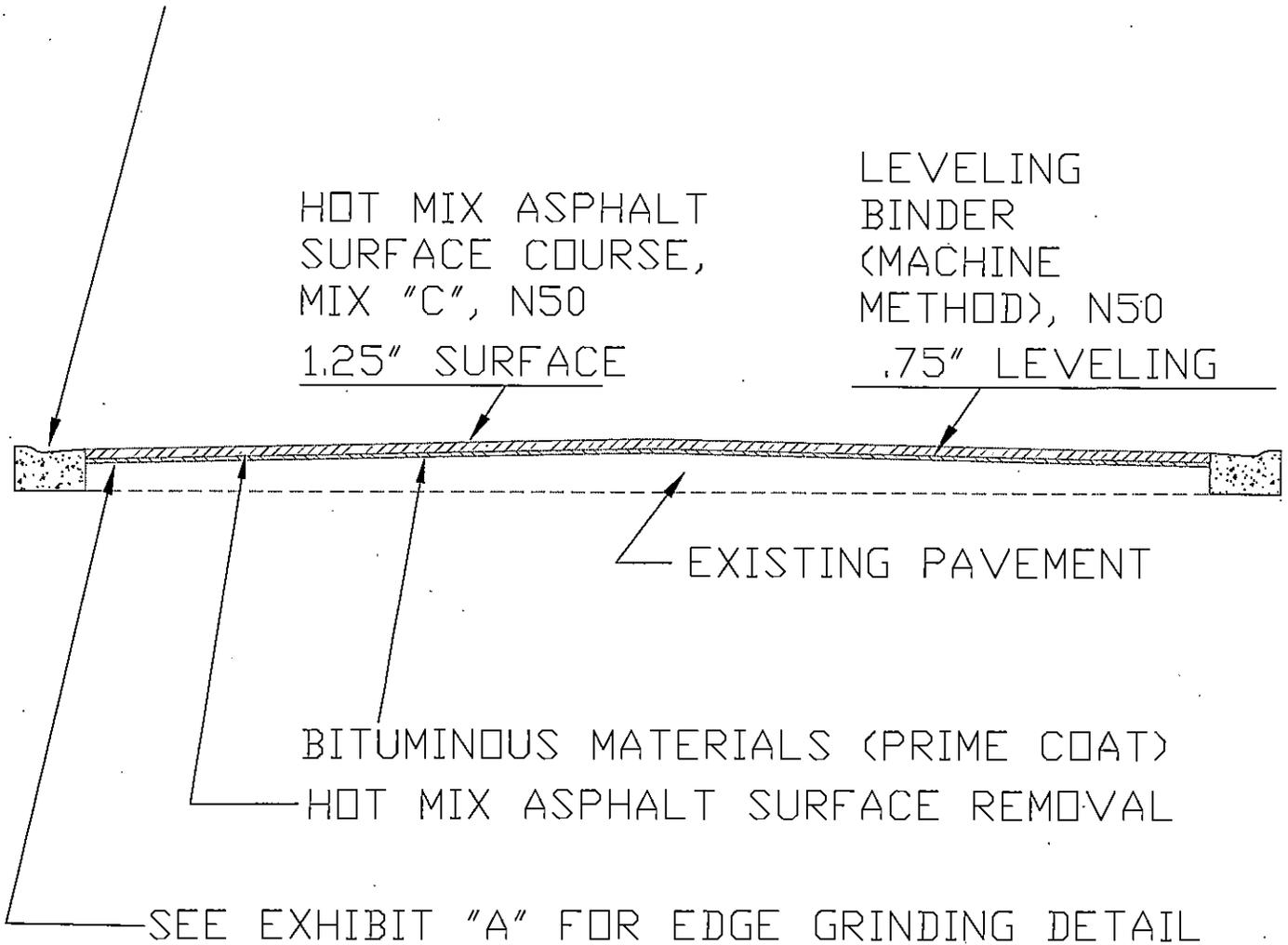
B6.12 CURB & GUTTER

# EXHIBIT "C"

M3.12/B6.12  
CURB & GUTTER  
(TYPICAL)

HOT MIX ASPHALT  
SURFACE COURSE,  
MIX "C", N50  
1.25" SURFACE

LEVELING  
BINDER  
(MACHINE  
METHOD), N50  
.75" LEVELING



EXISTING AND PROPOSED  
TYPICAL CROSS SECTION

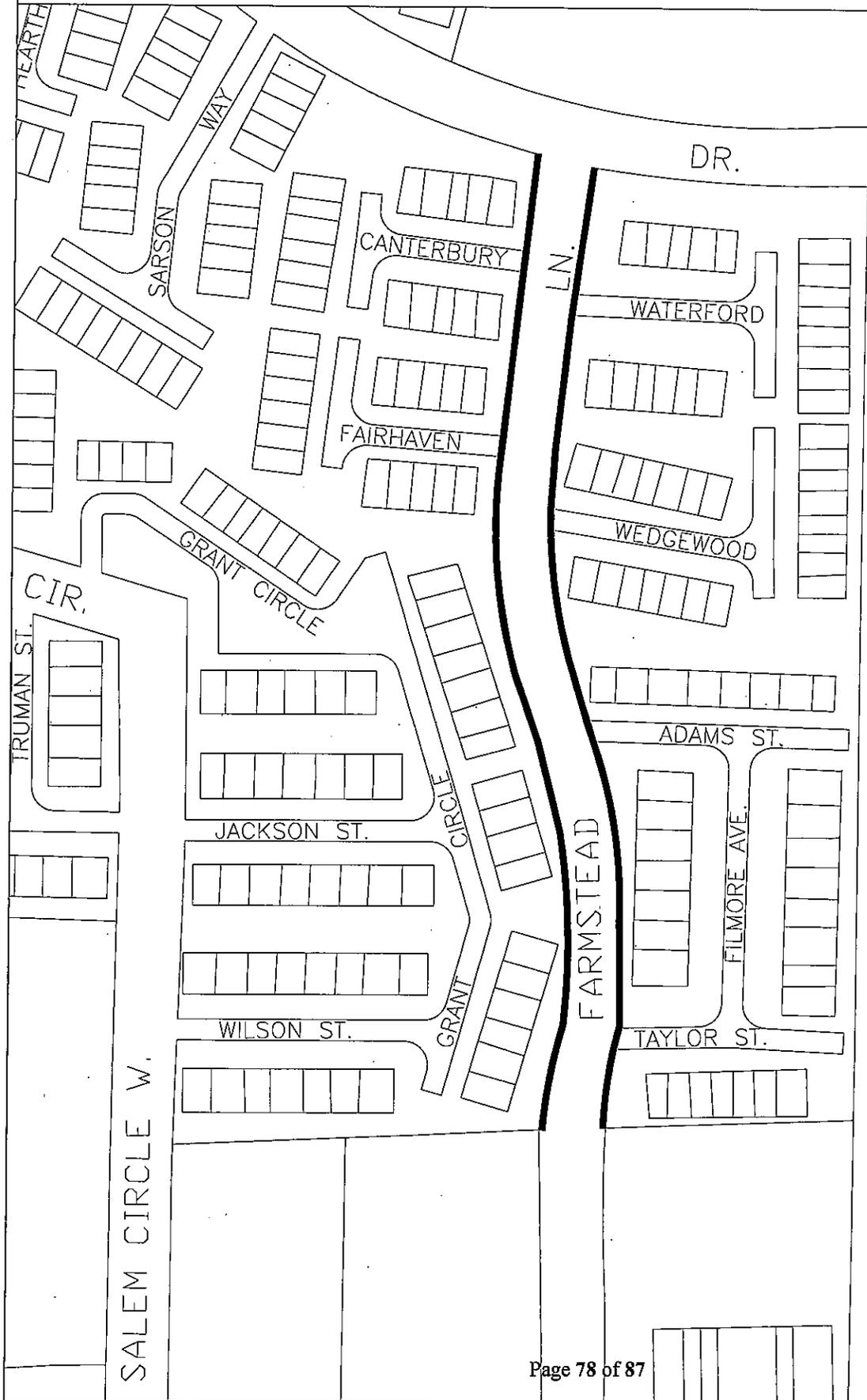






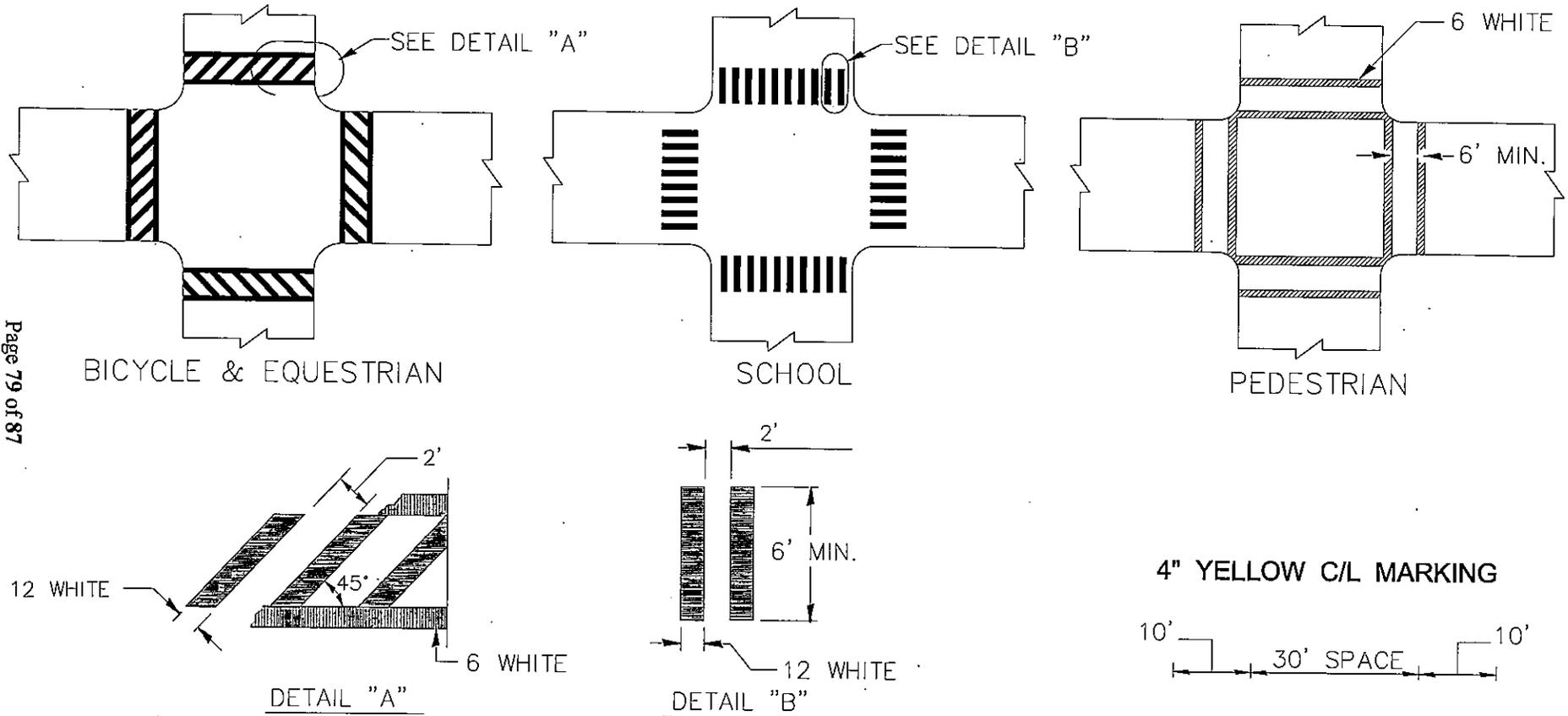
# EXHIBIT D, SHEET 4 OF 5

6" X 6' CLASS D PATCH



# EXHIBIT D, SHEET 5 OF 5

## TYPICAL CROSSWALK MARKING



Page 79 of 87

<p>CROSSWALK LINES (PEDESTRIAN)            A. DIAGONALS (BIKE &amp; EQUESTRIAN)            B. LONGITUDINAL (SCHOOL)</p>	<p>2 @ 6'            12" @ 45°            12" @ 45°</p>	<p>SOLID            SOLID            SOLID</p>	<p>WHITE            WHITE            WHITE</p>	<p>NOT LESS THAN 6' APART            2' APART            2' APART            SEE TYPICAL CROSSWALK MARKING DETAILS</p>
<p>STOP LINES</p>	<p>24"</p>	<p>SOLID</p>	<p>WHITE</p>	<p>PLACE 4' IN ADVANCE OF AND PARALLEL TO CROSS WALK, IF PRESENT. OTHERWISE, PLACE AT DESIRED STOPPING POINT. PARALLEL TO CROSS ROAD CENTERLINE, WHERE POSSIBLE.</p>



Route	<u>Various Village Streets</u>
County	<u>Cook &amp; DuPage</u>
Local Agency	<u>Village of Hanover Park</u>
Section	<u>14-00000-02-GM</u>

RETURN WITH BID

1. Proposal of J.J.A. JOHNSON PAVING CO  
1025 E. ADDISON COURT, ARLINGTON HEIGHTS, IL 60005

for the improvement of the above section by the construction of Hot Mix Asphalt Surface removal, adjustment  
of manholes, rebuilding of drainage structures, curb & gutter and sidewalk replacement, pavement marking,  
and resurfacing with hot mix asphalt at various locations.

a total distance of 16030.00 feet, of which a  
distance of 16030.00 feet, (3.04 miles) are to be improved.

2. The plans for the proposed work are those prepared by Howard A. Killian, P.E., Village Engineer  
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 40 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: Treasurer of

the amount of the check is \_\_\_\_\_ ( \_\_\_\_\_ )

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.



**Illinois Department of Transportation**

**Schedule of Prices**

Route Various Village Streets  
 County Cook/DuPage  
 Local Agency Hanover Park  
 Section 14-00000-02-GM

**RETURN WITH BID**

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

Item No.	Items	Unit	Quantity	Unit Price	Total
1	HOT MIX ASPHALT SURFACE COURSE, MIX "C", N50 (IL9.5mm)	TONS	3,362	76.10	255,848.20
2	LEVELING BINDER (MACHINE METHOD), N50	TONS	2,017	76.10	153,493.70
3	HOT MIX ASPHALT SURFACE REMOVAL	SY	46,757	3.00	140,271.00
4	BITUMINOUS MATERIALS (PRIME COAT)	TONS	18.71	6.61	123.65
5	CURB & GUTTER REMOVAL & REPLACEMENT, M3.12	LF	9,328	15.70	146,449.60
6	CURB & GUTTER REMOVAL & REPLACEMENT, B8.12	LF	390	19.00	7,410.00
7	PAVEMENT PATCHING, CLASS "D", 4"	SY	3,241	5.00	16,205.00
8	PAVEMENT PATCHING, CLASS "D", 6"	SY	1,355	10.00	13,550.00
9	DRAINAGE STRUCTURE REBUILD	EACH	2	1500.00	3000.00
10	MANHOLES TO BE ADJUSTED	EACH	13	340.00	4420.00
11	PCC SIDEWALK REMOVAL & REPLACEMENT	SF	300	4.50	1350.00
12	DETECTABLE WARNINGS	SF	216	19.00	4104.00
13	STORM SEWER FRAMES & GRATES	EACH	5	340.00	1700.00
14	PREFORMED PLASTIC PAVEMENT MARKING, TYPE D - INLAID - LINE 4"	LF	2,081	4.85	10,092.85
15	PREFORMED PLASTIC PAVEMENT MARKING, TYPE D - INLAID - LINE 12"	LF	552	8.95	4940.40
16	PREFORMED PLASTIC PAVEMENT MARKING, TYPE D - INLAID - LINE 24"	LF	142	10.95	1554.90
17	PREFORMED PLASTIC PAVEMENT MARKING, TYPE D - INLAID - LTRS & SYM	SF	270	18.95	5116.50
<b>Total Bid:</b>					
Bidder's Proposal for making Entire Improvements					<b>769,116.54</b>

13. The undersigned further agrees that if awarded the contract for the sections contained in the following combinations, he will perform the work in accordance with the requirements of each individual proposal for the multiple bid specified in the schedule below.

**Schedule for multiple Bids**

Combination letter	Sections included in Combination	Total



Illinois Department of Transportation

Signatures

Route	<u>Various Village Streets</u>
County	<u>Cook &amp; DuPage</u>
Local Agency	<u>Hanover Park</u>
Section	<u>14-00000-02-GM</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 J.A. JOHNSON PAVING CO

Signed By *Dale Johnson* President

Business Address 1025 E. ADDISON COURT

ARLINGTON HEIGHTS, IL 60005

Insert  
Names of  
Officers

President DALE A. JOHNSON

Secretary MICHAEL R. TARPEY

Treasurer MICHAEL R. TARPEY

Attest: *Michael Tarpey* Secretary



Return with Bid

Route	<u>Various</u>
County	<u>Cook &amp; DuPage</u>
Local Agency	<u>Hanover Park</u>
Section	<u>14-00000-02-GM</u>

**All contractors are required to complete the following certification:**

For this contract proposal or for all groups in this deliver and install proposal.

For the following deliver and install groups in this material proposal:

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

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

J.A. JOHNOSN PAVING CO.....A/EQUIPMENT OPERATORS, LOCAL 150, B/TEAMSTERS, LOCAL 731, C/LABORERS, CHICAGOLAND  
 AND VICINITY DISTRICT COUNCIL  
 SUBCONTRACTORS.....A/EQUIPMENT OPERATORS, B/TEAMSTERS, C/LABORERS, D/CEMENT MASONS, E/ELECTRICIANS,  
 F/IRON WORKERS AND G/CARPENTERS

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

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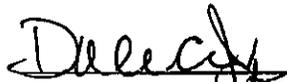
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The requirements of this certification and disclosure are a material part of the contract, and the contractor shall require this certification provision to be included in all approved subcontracts. The bidder is responsible for making a complete report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

Bidder: J.A. JOHNSON PAVING CO

Address: 1025 E. ADDISON COURT, ARLINGTON HEIGHTS, IL

By:   
(Signature)

Title: DALE A. JOHNSON, PRESIDENT



Route Various Village Streets
County Cook & DuPage
Local Agency Hanover Park
Section 14-00000-02-GM

RETURN WITH BID

PAPER BID BOND

WE J.A.Johnson Paving Company as PRINCIPAL, and Fidelity and Deposit Company of Maryland as SURETY,

are held jointly, severally and firmly bound unto the above Local Agency (hereafter referred to as "LA") in the penal sum of 5% of the total bid price, or for the amount specified in the proposal documents in effect on the date of invitation for bids whichever is the lesser sum.

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 23rd day of April, 2013

Principal

J.A.Johnson Paving Company (Company Name)

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

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

Surety

Fidelity and Deposit Company of Maryland (Name of Surety)

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



STATE OF Illinois COUNTY OF Cook

I, Joseph Halleran, a Notary Public in and for said county, do hereby certify that Dale A. Johnson and William Reidinger

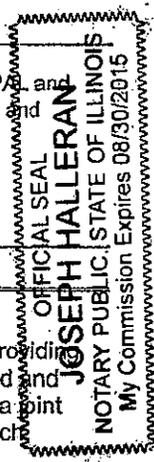
(Insert names of individuals signing on behalf of PRINCIPAL & SURETY)

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

Given under my hand and notarial seal this 23rd day of April, 2013

My commission expires August 30, 2015

Joseph Halleran (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.

Electronic Bid Bond ID Code (grid)

Electronic Bid Bond ID Code

(Company/Bidder Name)

(Signature and Title)

Date

**Power of Attorney**  
**FIDELITY AND DEPOSIT COMPANY OF MARYLAND**

KNOW ALL MEN BY THESE PRESENTS: That the FIDELITY AND DEPOSIT COMPANY OF MARYLAND, a corporation of the State of Maryland, by FRANK E. MARTIN JR., Vice President, and ERIC D. BARNES, Assistant Secretary, in pursuance of authority granted by Article VI, Section 2, of the By-Laws of said Company, which are set forth on the reverse side hereof and are hereby certified to be in full force and effect on the date hereof does hereby nominate, constitute and appoint Donna M. TYLER, Hina AZAM, Karen E. BOGARD, Donna WRIGHT, William REIDINGER and Joseph HALLERAN, all of Schaumburg, Illinois, EACH its true and lawful agent and Attorney-in-Fact, to make, execute, seal and deliver, for, and on its behalf as surety, and as its act and deed, any and all bonds and undertakings, and the execution of such bonds or undertakings in pursuance of these presents, shall be as binding upon said Company, as fully and amply, to all intents and purposes, as if they had been duly executed and acknowledged by the regularly elected officers of the Company at its office in Baltimore, Md. in their own proper persons. This power of attorney revokes that issued on behalf of Donna M. TYLER, Hina AZAM, Karen E. BOGARD, Donna WRIGHT, William REIDINGER, dated February 4, 2011.

The said Assistant Secretary does hereby certify that the extract set forth on the reverse side hereof is a true copy of Article VI, Section 2, of the By-Laws of said Company, and is now in force.

IN WITNESS WHEREOF, the said Vice-President and Assistant Secretary have hereunto subscribed their names and affixed the Corporate Seal of the said FIDELITY AND DEPOSIT COMPANY OF MARYLAND, this 27th day of September, A.D. 2011.

ATTEST:

**FIDELITY AND DEPOSIT COMPANY OF MARYLAND**



*Eric D. Barnes*

*Eric D. Barnes* Assistant Secretary

*Frank E. Martin Jr.*

By: *Frank E. Martin Jr.* Vice President

State of Maryland }  
City of Baltimore } ss:

On this 27th day of September, A.D. 2011, before the subscriber, a Notary Public of the State of Maryland, duly commissioned and qualified, came FRANK E. MARTIN JR., Vice President, and ERIC D. BARNES, Assistant Secretary of the FIDELITY AND DEPOSIT COMPANY OF MARYLAND, to me personally known to be the individuals and officers described in and who executed the preceding instrument, and they each acknowledged the execution of the same, and being by me duly sworn, severally and each for himself depose and saith, that they are the said officers of the Company aforesaid, and that the seal affixed to the preceding instrument is the Corporate Seal of said Company, and that the said Corporate Seal and their signatures as such officers were duly affixed and subscribed to the said instrument by the authority and direction of the said Corporation.

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



*Constance A. Dunn*

*Constance A. Dunn* Notary Public  
My Commission Expires: July 14, 2015

**EXTRACT FROM BY-LAWS OF FIDELITY AND DEPOSIT COMPANY OF MARYLAND**

“Article VI, Section 2. The Chairman of the Board, or the President, or any Executive Vice-President, or any of the Senior Vice-Presidents or Vice-Presidents specially authorized so to do by the Board of Directors or by the Executive Committee, shall have power, by and with the concurrence of the Secretary or any one of the Assistant Secretaries, to appoint Resident Vice-Presidents, Assistant Vice-Presidents and Attorneys-in-Fact as the business of the Company may require, or to authorize any person or persons to execute on behalf of the Company any bonds, undertakings, recognizances, stipulations, policies, contracts, agreements, deeds, and releases and assignments of judgements, decrees, mortgages and instruments in the nature of mortgages,...and to affix the seal of the Company thereto.”

**CERTIFICATE**

I, the undersigned, Assistant Secretary of the FIDELITY AND DEPOSIT COMPANY OF MARYLAND, do hereby certify that the foregoing Power of Attorney is still in full force and effect on the date of this certificate; and I do further certify that the Vice-President who executed the said Power of Attorney was one of the additional Vice-Presidents specially authorized by the Board of Directors to appoint any Attorney-in-Fact as provided in Article VI, Section 2, of the By-Laws of the FIDELITY AND DEPOSIT COMPANY OF MARYLAND.

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

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

IN TESTIMONY WHEREOF, I have hereunto subscribed my name and affixed the corporate seal of the said Company,

this 23<sup>rd</sup> day of April, 2013.

*Gerald F. Halley*  
Assistant Secretary



**Illinois Department of Transportation**

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

**Affidavit of Availability**  
For the Letting of 423/13  
(Letting date)

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

**Part I. Work Under Contract**

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

	1	2	3	4	5	
Contract Number	CON# 60M52	CON# 60L43	CON# 63762	SEC 13-00000-01-GM	NA	
Contract With	Dunnett Bay	ALLIANCE	IDOT	SOUTH BARRINGTON	HOFFMAN ESTATES PD	
Estimated Completion Date	9/12	8/13	7/13	6/13	7/13	
Total Contract Price	103,000.00	91,000.00	636,000.00	647,000.00	68,000.00	Accumulated Totals
Uncompleted Dollar Value if Firm is the Prime Contractor			636,000.00	647,000.00	68,000.00	1,351,000.00
Uncompleted Dollar Value if Firm is the Subcontractor	103,000.00	91,000.00				194,000.00
<b>Total Value of All Work</b>						<b>1,545,000.00</b>

**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				8,000.00		8,000.00
Portland Cement Concrete Paving						0.00
HMA Plant Mix	95,000.00	77,000.00	375,000.00	399,000.00	53,000.00	999,000.00
HMA Paving						0.00
Clean & Seal Cracks/Joints						0.00
Aggregate Bases & Surfaces		1,000.00		5,000.00		6,000.00
Highway, R.R. and Waterway Structures						0.00
Drainage						0.00
Electrical						0.00
Cover and Seal Coats	2,000.00					2,000.00
Concrete Construction						0.00
Landscaping						0.00
Fencing						0.00
Guardrail						0.00
Painting						0.00
Signing						0.00
Cold Milling, Planning & Rotomilling	6,000.00	13,000.00	65,000.00	58,000.00	15,000.00	157,000.00
Demolition						0.00
Pavement Markings (Paint)						0.00
Other Construction (List) - patching			7,000.00	40,000.00		47,000.00
RAILROAD INSURANCE			5,000.00			5,000.00
						0.00
<b>Totals</b>	<b>103,000.00</b>	<b>91,000.00</b>	<b>452,000.00</b>	<b>510,000.00</b>	<b>68,000.00</b>	<b>1,224,000.00</b>

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

Part III. Work Subcontracted to Others

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

	1	2	3	4	5
Subcontractor			PRECISION	PRECISION	
Type of Work			STRIPE	STRIPE	
Subcontract Price			13,000.00	2,000.00	
Amount Uncompleted			13,000.00	2,000.00	
Subcontractor			CONIN	DINATLE	
Type of Work			LANDSCAPE	CONCRETE	
Subcontract Price			13,000.00	26,000.00	
Amount Uncompleted			13,000.00	26,000.00	
Subcontractor			HAWK	TNT	
Type of Work			ELECTRIC	LANDSCAPE	
Subcontract Price			7,000.00	13,000.00	
Amount Uncompleted			7,000.00	13,000.00	
Subcontractor			DYNAMICX	NORRIDGE	
Type of Work			SEWER	SEWER	
Subcontract Price			60,000.00	37,000.00	
Amount Uncompleted			60,000.00	37,000.00	
Subcontractor			WORK ZONE	SKC	
Type of Work			TRAFF CONT	CRACK FILL	
Subcontract Price			11,000.00	14,000.00	
Amount Uncompleted			11,000.00	14,000.00	
Subcontractor			TBD	WORK ZONE	
Type of Work			CONCRETE	TRAFF CONTROL	
Subcontract Price			80,000.00	27,000.00	
Amount Uncompleted			80,000.00	27,000.00	
Subcontractor				GEOMAT	
Type of Work				REFL CRACK CONTR	
Subcontract Price				18,000.00	
Amount Uncompleted				18,000.00	
Total Uncompleted	0.00	0.00	184,000.00	137,000.00	0.00

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

Subscribed and sworn to before me

this \_\_\_\_ day of \_\_\_\_\_, 20\_\_\_\_.

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

\_\_\_\_\_  
 Notary Public

Signed \_\_\_\_\_

My commission expires: \_\_\_\_\_

Company J.A. JOHNSON PAVING CO

(Notary Seal)

Address 1025 E. ADDISON COURT

ARLINGTON HEGHTS, IL 60005



**Illinois Department  
of Transportation**

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

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.

	6	7	Awards Pending	Awards Pending	Awards Pending	
Contract Number	NA	SEC 12-000174-00-RS	CON# 63811	NA		
Contract With	ELK GROVE	NORTH CHICAGO	IDOT	WHEELING PRK DIST		
Estimated Completion Date	6/13	7/13	8/13	7/13		
Total Contract Price	897,000.00	515,000.00	1,844,000.00	572,000.00		Accumulated Totals
Uncompleted Dollar Value if Firm is the Prime Contractor	897,000.00	515,000.00	1,844,000.00	572,000.00	0.00	5,179,000.00
Uncompleted Dollar Value if Firm is the Subcontractor					0.00	194,000.00
					<b>Total Value of All Work</b>	<b>5,373,000.00</b>

**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			20,000.00			28,000.00
Portland Cement Concrete Paving						0.00
HMA Plant Mix	589,000.00	245,000.00	974,000.00	185,000.00		2,992,000.00
HMA Paving						0.00
Clean & Seal Cracks/Joints						0.00
Aggregate Bases & Surfaces			115,000.00	78,000.00		199,000.00
Highway, R.R. and Waterway Structures						0.00
Drainage						0.00
Electrical						0.00
Cover and Seal Coats						2,000.00
Concrete Construction						0.00
Landscaping						0.00
Fencing						0.00
Guardrail						0.00
Painting						0.00
Signing						0.00
Cold Milling, Planning & Rotomilling	90,000.00	24,000.00	31,000.00	6,000.00		308,000.00
Demolition						0.00
Pavement Markings (Paint)						0.00
Other Construction (List) - patching	65,000.00	43,000.00	343,000.00	11,000.00		509,000.00
						5,000.00
						0.00
<b>Totals</b>	<b>744,000.00</b>	<b>312,000.00</b>	<b>1,483,000.00</b>	<b>280,000.00</b>	<b>0.00</b>	<b>4,043,000.00</b>

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.

	6	7	Awards Pending	Awards Pending	Awards Pending
Subcontractor	SKC	DINATLE	HWY SFTY	TBD	
Type of Work	CRACK ROUTE	CONCRETE	TRAFF CONT	LAYOUT	
Subcontract Price	17,000.00	135,000.00	18,000.00	5,000.00	
Amount Uncompleted	17,000.00	135,000.00	18,000.00	5,000.00	
Subcontractor	NORRIDGE	TNT	HAWK	TBD	
Type of Work	SEWER	LNDSCPE	ELECTRIC	EXCAVATION	
Subcontract Price	40,000.00	22,000.00	7,000.00	62,000.00	
Amount Uncompleted	40,000.00	22,000.00	7,000.00	62,000.00	
Subcontractor	PRECISION	PRECISION	DYNAMICX	TBD	
Type of Work	STRIPE	STRIPE	CONCRETE & SEWER	SEWER	
Subcontract Price	14,000.00	4,000.00	292,000.00	42,000.00	
Amount Uncompleted	14,000.00	4,000.00	292,000.00	42,000.00	
Subcontractor	TNT	NORRIDGE	TBD	TBD	
Type of Work	LNDSCPE	SEWER	GUARDRAIL	CONCRETE	
Subcontract Price	8,000.00	30,000.00	18,000.00	83,000.00	
Amount Uncompleted	8,000.00	30,000.00	18,000.00	83,000.00	
Subcontractor	HAWK	TCP	DBD	TBD	
Type of Work	ELECTRIC	TRAFF CONTR	STRIPE	LNDSCPE	
Subcontract Price	28,000.00	9,000.00	15,000.00	13,000.00	
Amount Uncompleted	28,000.00	9,000.00	15,000.00	13,000.00	
Subcontractor	M 4	STETTNER	TBD	TBD	
Type of Work	CONCRETE	LAYOUT	LNDSCPE	ELEC	
Subcontract Price	28,000.00	3,000.00	11,000.00	80,000.00	
Amount Uncompleted	28,000.00	3,000.00	11,000.00	80,000.00	
Subcontractor	TCP			TBD	
Type of Work	TRAFF CONT			TRAFF CONT	
Subcontract Price	18,000.00			7,000.00	
Amount Uncompleted	18,000.00			7,000.00	
Total Uncompleted	153,000.00	203,000.00	361,000.00	292,000.00	0.00

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

Subscribed and sworn to before me

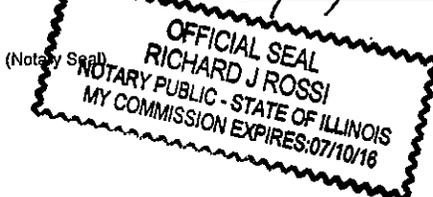
this 23<sup>rd</sup> day of April, 20 13

Richard J Rossi  
Notary Public

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

Signed Dale A Johnson

My commission expires: 7/10/16



Company J.A. JOHNSON PAVING CO

Address 1025 E. ADDISON COURT  
ARLINGTON HEIGHTS, IL 60005



1. THIS AGREEMENT, made and concluded the 2nd day of May, 2013 Month and Year between the Village of Hanover Park acting by and through its Village Manager J.A. Johnson Paving Co. his/their executors, administrators, successors or assigns, known as the party of the second part.

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

3. And it is also understood and agreed that the Notice to Contractors, Special Provisions, Proposal and Contract Bond hereto attached, and the Plans for Section 14-00000-02-GM in the Village of Hanover Park, approved by the Department of Transportation of the State of Illinois N/A Date, are essential documents of this contract and are a part hereof.

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

Attest: Gerard A. Corral Clerk (Seal)

The Village of Hanover Park By [Signature] Party of the First Part (If a Corporation)

Corporate Name J.A. Johnson Paving Co. By [Signature] President Party of the Second Part (If a Co-Partnership)

Attest: [Signature] Secretary

Partners doing Business under the firm name of Party of the Second Part (If an individual) Party of the Second Part



IN TESTIMONY WHEREOF, the said PRINCIPAL and the said SURETY have caused this instrument to be signed by their respective officers this 8th day of May A.D. 2013

**PRINCIPAL**

J.A. Johnson Paving Company  
(Company Name)

\_\_\_\_\_  
(Company Name)

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

By: \_\_\_\_\_  
(Signature & Title)

Attest: Michael R Tarpey  
MICHAEL R TARPEY (Signature & Title) Secretary

Attest: \_\_\_\_\_  
(Signature & Title)

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

STATE OF \_\_\_\_\_  
COUNTY OF Cook

I, RICHARD J. ROSS, a Notary Public in and for said county, do hereby certify that

Dale A. Johnson AND MICHAEL R TARPEY

(Insert names of individuals signing on behalf of PRINCIPAL)

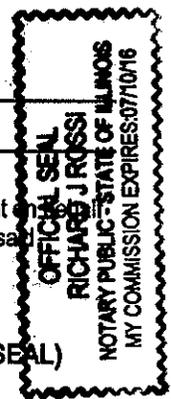
who are each personally known to me to be the same persons whose names are subscribed to the foregoing instrument of PRINCIPAL, appeared before me this day in person and acknowledged respectively, that they signed and delivered said instrument as their free and voluntary act for the uses and purposes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

Given under my hand and notarial seal this 8th day of May A.D. 2013

My commission expires 7.10.16

Richard J. Ross  
Notary Public

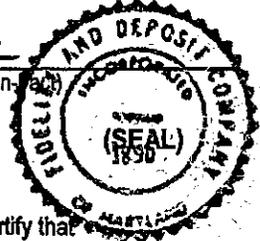
(SEAL)



**SURETY**

Fidelity and Deposit Company of Maryland  
(Name of Surety)

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



STATE OF Illinois  
COUNTY OF Cook

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

William Reidinger

(Insert names of individuals signing on behalf of SURETY)

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

Given under my hand and notarial seal this 8th day of May A.D. 2013

My commission expires August 30, 2015

Joseph Halleran  
Notary Public

(SEAL)



Approved this \_\_\_\_\_ day of \_\_\_\_\_, A.D. \_\_\_\_\_

Attest: W. L. Galt  
Clerk

Richard J. Ross  
(Awarding Authority)  
President  
(Chairman/Mayor/President)

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

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

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

IN WITNESS WHEREOF, the said Vice-President has hereunto subscribed his/her names and affixed the Corporate Seals of the said ZURICH AMERICAN INSURANCE COMPANY, COLONIAL AMERICAN CASUALTY AND SURETY COMPANY, and FIDELITY AND DEPOSIT COMPANY OF MARYLAND, this 26th day of February, A.D. 2013.

**ATTEST:**

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



By: *Eric D. Barnes*  
*Assistant Secretary*  
*Eric D. Barnes*

*Thomas O. McClellan*  
*Vice President*  
*Thomas O. McClellan*

State of Maryland  
City of Baltimore

On this 26th day of February, A.D. 2013, before the subscriber, a Notary Public of the State of Maryland, duly commissioned and qualified, **THOMAS O. MCCLELLAN, Vice President**, and **ERIC D. BARNES, Assistant Secretary**, of the Companies, to me personally known to be the individuals and officers described in and who executed the preceding instrument, and acknowledged the execution of same, and being by me duly sworn, depose and saith, that he/she is the said officer of the Company aforesaid, and that the seals affixed to the preceding instrument are the Corporate Seals of said Companies, and that the said Corporate Seals and the signature as such officer were duly affixed and subscribed to the said instrument by the authority and direction of the said Corporations.

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

*Constance A. Dunn*

Constance A. Dunn, Notary Public  
My Commission Expires: July 14, 2015



**EXTRACT FROM BY-LAWS OF THE COMPANIES**

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

**CERTIFICATE**

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

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

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

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

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

IN TESTIMONY WHEREOF, I have hereunto subscribed my name and affixed the corporate seals of the said Companies, this 20<sup>th</sup> day of May, 2013.



*Geoffrey Delisio*

Geoffrey Delisio, Vice President