

ITEM MOT 2015-6201

VILLAGE OF DOWNERS GROVE
Report for the Village Council Meeting
5/19/2015

SUBJECT:	SUBMITTED BY:
2015 Street Resurfacing Project	Nan Newlon Director of Public Works

SYNOPSIS

A motion is requested to award a contract for the 2015 Resurfacing (A) Project to J. A. Johnson Paving Company of Arlington Heights, Illinois in the amount of \$2,497,116.88.

STRATEGIC PLAN ALIGNMENT

The Goals for 2011 to 2018 identified *Top Quality Infrastructure*.

FISCAL IMPACT

The FY15 budget includes \$2,500,000 for this project from the Motor Fuel Tax and the Capital Project Funds.

UPDATE & RECOMMENDATION

This item was discussed at the May 12, 2015 Village Council meeting. Staff recommends approval on the May 19 Consent Agenda.

BACKGROUND

This contract is a component of the 2015 Roadway Maintenance Program (CIP Project ST-004). The scope of this contract includes resurfacing the streets included on the attached list with a new layer of asphalt along with the repair of defective sections of pavement and concrete curb and gutter. This contract represents a portion of the budgeted roadway maintenance work. Other projects include Municipal Partnering Initiative for Crack Sealing Services and 2015 Fall Roadway Patching.

A Call for Bids (CFB) was issued and published in accordance with the Village's Purchasing Policy. Three bids were received by the due date of April 21, 2015. A synopsis of the bids is as follows:

Contractor	Base Bid	
J. A. Johnson Paving Company	\$2,497,116.88	Low Bid
K-Five Construction Corp	\$2,525,000.08	
Central Blacktop Company	\$2,697,958.33	

Staff received favorable responses from Contractor's references. J. A. Johnson Paving has satisfactorily completed projects of similar size and scope for the Village of Winfield and the City of Batavia.

ATTACHMENTS

Contract Documents

List of Streets

Capital Project Sheet ST-004

RETURN WITH BID



Illinois Department of Transportation

Local Public Agency Formal Contract Proposal

PROPOSAL SUBMITTED BY J.A. JOHNSON PAVING CO.		
Contractor's Name 1025 E. ADDISON COURT		
Street ARLINGTON HEIGHTS, IL 60005	P.O. Box	
City	State	Zip Code

STATE OF ILLINOIS

COUNTY OF DuPage

Village of Downers Grove

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

FOR THE IMPROVEMENT OF

STREET NAME OR ROUTE NO. Various Locations

SECTION NO. 15-00000-01-GM

TYPES OF FUNDS MFT & Corporate

SPECIFICATIONS (required)

PLANS (required)

For Municipal Projects
Submitted/Approved/Passed

[Signature]

Mayor President of Board of Trustees Municipal Official

Date 03/31/15

Department of Transportation

Released for bid based on limited review

[Signature]

Regional Engineer

4/6/15

Date

For County and Road District Projects
Submitted/Approved

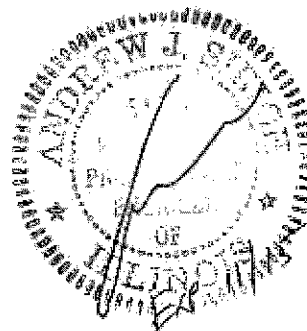
Highway Commissioner

Date

Submitted/Approved

County Engineer/Superintendent of Highways

Date



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

RETURN WITH BID

NOTICE TO BIDDERS

County DuPage
 Local Public Agency Downers Grove
 Section Number 15-00000-01-GM
 Route Various

Sealed proposals for the improvement described below will be received at the office of Public Works Department,
5101 Walnut Avenue, Downers Grove, Illinois 60515 until 10:00 AM on April 21, 2015
 Address Time Date

Sealed proposals will be opened and read publicly at the office of Public Works Department
5101 Walnut Avenue, Downers Grove, Illinois 60515 at 10:00 AM on April 21, 2015
 Address Time Date

DESCRIPTION OF WORK

Name 2015 Resurfacing (A) Length: 32284.00 feet (6.11 miles)

Location Various Streets

Proposed Improvement Pavement removal and replacement, level binder, hot-mix asphalt surface course,
curb and gutter removal and replacement and all related work

1. Plans and proposal forms will be available in the office of Public Works Department, 5101 Walnut Avenue,
Downers Grove, Illinois 60515, Scott Barr (630) 434-5488, Proposal Fee \$0
 Address
2. Prequalification
 If checked, the 2 low bidders must file within 24 hours after the letting an "Affidavit of Availability" (Form BC 57), in duplicate, showing all uncompleted contracts awarded to them and all low bids pending award for Federal, State, County, Municipal and private work. One original shall be filed with the Awarding Authority and one original with the IDOT District Office.
3. The Awarding Authority reserves the right to waive technicalities and to reject any or all proposals as provided in BLRS Special Provision for Bidding Requirements and Conditions for Contract Proposals.
4. The following BLR Forms shall be returned by the bidder to the Awarding Authority:
 - a. BLR 12200: Local Public Agency Formal Contract Proposal
 - b. BLR 12200a Schedule of Prices
 - c. BLR 12230: Proposal Bid Bond (if applicable)
 - d. BLR 12325: Apprenticeship or Training Program Certification (**do not use for federally funded projects**)
 - e. BLR 12326: Affidavit of Illinois Business Office

RETURN WITH BID

5. The quantities appearing in the bid schedule are approximate and are prepared for the comparison of bids. Payment to the Contractor will be made only for the actual quantities of work performed and accepted or materials furnished according to the contract. The scheduled quantities of work to be done and materials to be furnished may be increased, decreased or omitted as hereinafter provided.
6. Submission of a bid shall be conclusive assurance and warranty the bidder has examined the plans and understands all requirements for the performance of work. The bidder will be responsible for all errors in the proposal resulting from failure or neglect to conduct an in depth examination. The Awarding Authority will, in no case be responsible for any costs, expenses, losses or changes in anticipated profits resulting from such failure or neglect of the bidder.
7. The bidder shall take no advantage of any error or omission in the proposal and advertised contract.
8. If a special envelope is supplied by the Awarding Authority, each proposal should be submitted in that envelope furnished by the Awarding Agency and the blank spaces on the envelope shall be filled in correctly to clearly indicate its contents. When an envelope other than the special one furnished by the Awarding Authority is used, it shall be marked to clearly indicate its contents. When sent by mail, the sealed proposal shall be addressed to the Awarding Authority at the address and in care of the official in whose office the bids are to be received. All proposals shall be filed prior to the time and at the place specified in the Notice to Bidders. Proposals received after the time specified will be returned to the bidder unopened.
9. Permission will be given to a bidder to withdraw a proposal if the bidder makes the request in writing or in person before the time for opening proposals.

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FOR
SUPPLEMENTAL SPECIFICATIONS
AND RECURRING SPECIAL PROVISIONS

Adopted January 1, 2015

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

ERRATA Standard Specifications for Road and Bridge Construction
(Adopted 1-1-12) (Revised 1-1-15)

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CHECK SHEET
FOR
RECURRING SPECIAL PROVISIONS

Adopted January 1, 2015

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

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28	<input type="checkbox"/> Calcium Chloride Accelerator for Portland Cement Concrete	225
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31	<input checked="" type="checkbox"/> Quality Control/Quality Assurance of Concrete Mixtures	235
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CHECK SHEET
FOR
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Adopted January 1, 2015

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

LOCAL ROADS AND STREETS RECURRING SPECIAL PROVISIONS

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Special Provisions

The following Special Provisions supplement the "Standard Specifications for Road and Bridge Construction", Adopted January 1, 2012 _____, the latest edition of the "Manual on Uniform Traffic Control Devices for Streets and Highways", and the "Manual of Test Procedures of Materials" in effect on the date of invitation of bids, and the Supplemental Specifications and Recurring Special Provisions indicated on the Check Sheet included here in which apply to and govern the construction of Section 15-00000-01-GM _____, and in case of conflict with any part, or parts, of said Specifications, the said Special Provisions shall take precedence and shall govern.

Maintenance of Roadways

Effective: September 30, 1985

Revised: November 1, 1996

Beginning on the date that work begins on this project, the Contractor shall assume responsibility for normal maintenance of all existing roadways within the limits of the improvement. This normal maintenance shall include all repair work deemed necessary by the Engineer, but shall not include snow removal operations. Traffic control and protection for maintenance of roadways will be provided by the Contractor as required by the Engineer.

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

TRAFFIC CONTROL PLAN

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

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

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

STANDARDS:

701301-04

701501-06

701801-05

701901-04

DETAILS: TC-10, TC-13

SPECIAL PROVISIONS: See SP #22 in Special Provisions

Basis of Payment: This work shall be included in the Lump Sum cost for TRAFFIC CONTROL, MAINTENANCE OF TRAFFIC.

STATUS OF UTILITIES TO BE ADJUSTED

Effective: January 30, 1987

Revised: January 24, 2013

Utilities companies involved in this project have provided the following estimated durations:

Name of Utility	Type	Location	Estimated Duration of Time for the Completion of Relocation or Adjustments
ComEd 1910 S Briggs Street Joliet, IL 60433 Attn: Tim Coslet (815)724-5010	Electric	Entire Job	None Anticipated
Comcast 688 Industrial Drive Elmhurst, IL 60126 Attn: Bob Schuler (630) 600-6347	Cable	Entire Job	None Anticipated
Downers Sanitary Dist. 2710 Curtiss Street Downers Grove, IL 60515 Attn: Ted Cherwak (630) 969-0664	Sanitary	Entire Job	None Anticipated
AT & T 4513 Western Avenue Lisle, IL 60532 Attn: Terry Wasik (630) 573 6481	Telephone	Entire Job	None Anticipated
Nicor Gas 1784 Ferry Road Naperville, IL 60563 Attn: Constance Lane (630) 388-3830	Gas	Entire Job	None Anticipated

The above represents the best information available to the Department and is included for the convenience of the bidder. The applicable portions of Articles 105.07 and 107.31 of the Standard Specifications shall apply.

In accordance with 605 ILCS 5/9-113 of the Illinois Compiled Statutes, utility companies have 90 days to complete the relocation of their facilities after receipt of written notice from the Department. The 90-day written notice will be sent to the utility companies after the following occurs:

- 1) Proposed right of way is clear for contract award.
- 2) Final plans have been sent to and received by the utility company.
- 3) Utility permit is received by the Department and the Department is ready to issue said permit.
- 4) If a permit has not been submitted, a 15 day letter is sent to the utility company notifying them they have 15 days to provide their permit application. After allowing 15 days for submission of the permit the 90 day notice is sent to the utility company.
- 5) Any time within the 90 day relocation period the utility company may request a waiver for additional time to complete their relocation. The Department has 10 days to review and respond to a waiver request.

Village of Downers Grove – 2015 Resurfacing (A)

IV. SPECIAL PROVISIONS

The following Special Provisions shall modify, supercede, or supplement the Standard Specifications.

Where any section, subsection, paragraph, or subparagraph of the Standard Specifications is *supplemented* by any of the following paragraphs, the provisions of such section, subsection, paragraph, or subparagraph shall remain in effect. The Special Provisions shall govern in addition to the particular Standard Specification so supplemented, and not in lieu thereof.

Where any section, subsection, paragraph, or subparagraph of the Standard Specifications is *amended, voided, or superceded* by any of the following paragraphs, any provision of such section, subsection, paragraph, or subparagraph standing unaffected, shall remain in effect. The Special Provisions shall govern in lieu of any particular provision of the Standard Specification so amended, voided, or superceded, and not in addition to the portion changed.

1 GENERAL CONSTRUCTION REQUIREMENTS

The following general requirements are intended to govern the overall priority for the performance of the work described in this contract. As general requirements, they are not intended to dictate to the Contractor the precise method by which these tasks shall be performed.

(A) Unless otherwise allowed by the Village, no contract work on Otis Ave, Birch Ave or Bryan Pl (including intersection at Franklin) can begin until a separate watermain project is completed this spring. It is anticipated that the watermain project will be complete by the end of June 2015.

(B) The contractor shall also make special note that no contract work on Highland Ave or Franklin St can begin until after the school year ends for St Joseph's Catholic School on or about June 2, 2015. Possible additional snow emergency days may also affect this schedule.

(C) A downtown Rotary Grove Fest scheduled for June 25 through June 28, 2015 may also affect schedule of work in the area of Highland Ave and Bryan Place. During this event, any previous work will require additional clean up, backfill etc., to safely allow for overflow traffic, parking and pedestrian use.

Special consideration to hours and location of work near schools shall be made to allow for full and safe access during normal student arrival and departure schedules.

The Contractor shall maintain traffic flow on All Streets during the day in accordance with the applicable special provision. Adequate signing and flagging is of particular importance for safe travel of all residents.

The Contractor shall conduct his operations to interfere as little as possible with Village employees or the public on or near the Work. All construction work specified under this contract shall be so engaged as to not impede normal traffic and pedestrian ways. Any barricading to detour traffic must receive prior written approval from the Engineer.

Village of Downers Grove – 2015 Resurfacing (A)

Unless otherwise allowed by the Village, non-poured and/or non-finished concrete shall not be allowed to extend over a Saturday and Sunday period. All construction work shall be done such that continuous access to schools or businesses is maintained, although it may be restricted to one lane with proper barricading .

All voids and open excavation remaining adjacent to newly constructed curb and gutter, sidewalks, driveways, etc., must be addressed in a timely manner. For that period prior to full parkway restoration or turf placement, the Contractor shall backfill and grade all disturbed areas in the parkway so as to insure the safety of the general public. Parkway shall be left in a safe, clean and usable condition conducive to foot traffic and to the satisfaction of the Village. The Contractor shall also work to keep disturbed areas in the parkway weed free.

All street openings made prior to November 15th shall be fully restored according to the applicable special provisions, and the street reopened to regular traffic upon the availability of hot-mix bituminous concrete. The Contractor shall assume the risk of restoration over those reaches of pipe installed but not yet pressure-tested for pipe integrity.

If the project requires the phasing of construction, the contractor is to follow the phasing shown in the plan set. Any variations in the phasing plan shown on the plan set must be approved in writing by the Engineer before construction begins. The contractor will not be allowed to proceed to another phase without the approval of the Engineer. **The contractor will receive no additional compensation for constructing the project in phases.**

No more than three hundred linear feet (300 LF) of pavement may be open-cut and closed to use by the motoring public, and access to **all** individual drives within the current work zone must be restored at the end of each workday, unless a Village-approved phasing plan shows otherwise.

2 This space intentionally left blank

3 ACCESS AND WATER SHUT OFF NOTIFICATION

If access to a driveway will be blocked, or water will be turned off, the Contractor shall give that resident or business proper written notification at least 24 hours in advance. The Contractor must provide them the opportunity to remove their cars from the drive or make other arrangements, and prepare for any shutdown of the water system. Samples of written notices shall be submitted to the Engineer for approval.

In addition, the Contractor shall be responsible for notifying the resident or business verbally on the morning of any driveway closure, to ensure awareness of the lack of access.

Basis of Payment: This work shall be considered **INCIDENTAL** to the project.

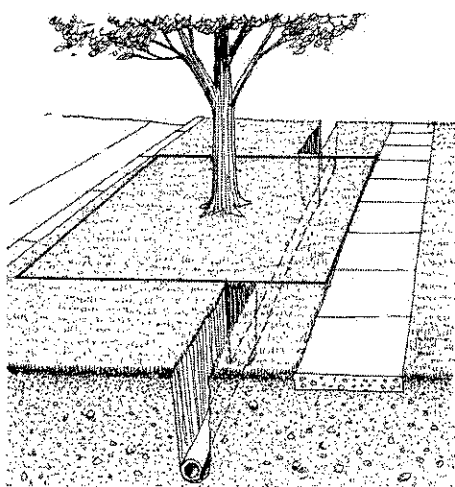
Village of Downers Grove – 2015 Resurfacing (A)

4 TREE PROTECTION

Municipal Codes regarding trees, including tree protection requirements for public parkway trees, are located in Chapter 24 of the Downers Grove Municipal Code. Specifically, Municipal Codes 24-7 and 24-8 detail the public parkway tree protection sizes and fines for violations. The Village Forester shall approve all tree protection measures and any deviations. All tree protection measures and any deviations shall be noted in the contract specifications and on approved project plan sheets and permits using the guidelines listed below. Tree protection shall include avoiding damage to the above ground tree branches and trunk, and the below ground root system and surrounding soil. Tree crowns and trunks shall not suffer any branch or bark loss. Roots shall be protected from compaction, storage of materials, severing, regrading of the parkway or excavation unless specifically noted on the project plan sheets.

The Critical Root Zone, or CRZ, is the area immediately surrounding a tree that must be protected from damage. In a municipal parkway setting with utilities and paved or concrete surfaces, the size of the CRZ has been adjusted to form a rectangle around the parkway tree trunk with minimum dimensions listed in the following table. The depth of the CRZ extends to 4 feet below the natural ground surface level.

<u>Parkway Tree diameter at 4.5'</u>	<u>Width street to property (min. curb to sidewalk)</u>	<u>Length along street street(minimum)</u>	<u>Depth</u>
0 – 12.0 inches	10.0 feet	10 feet	4 feet
12.1 – 24.0 inches	10.0 feet	20 feet	4 feet
24.1 or more inches	10.0 feet	30 feet	4 feet



Village of Downers Grove – 2015 Resurfacing (A)

For projects that involve excavations of less than one (1) foot in depth in the parkway or street and are replacing structures in the same location, fencing of the public parkway trees shall not be required. Example projects include, but are not limited to, street pavement resurfacing, curb removal/replacement, driveway removal/replacement, or sidewalk removal/repairs or new sidewalk installations. Contractors shall be mindful of the CRZ dimensions and potential for fines if any parkway trees suffer any unauthorized damage as determined by the Village Forester.

For projects that involve excavations of one (1) or more feet in depth in the parkway or street or both, fencing of the public parkway trees shall be required. Example projects include, but are not limited to, watermain replacements with new roundway keystops and domestic service box installations, sanitary line replacements and new service connections, new or replacement natural gas services, new or replacement phone or fiber optic lines, or new or replacement storm sewers, or projects that widen roads which in turn decreases the parkway soil volume around public parkway trees.

Projects that require fencing (listed above) shall fence the public parkway trees with six (6) foot high chain link construction fence secured to metal posts driven in the ground which are spaced no further than ten (10) feet apart. The dimensions of the fence shall depend on the tree diameter size and shall follow the table listed for the CRZ above, or as large as practical dependent on driveways and other field conditions. The fenced rectangle shall have three (3) sides with the opening facing the adjacent residences for easy access for mowing or tree care. Under no circumstances shall any items be stored within the fence. All fencing shall be maintained daily in an upright good condition. The size and location of all fencing shall be shown on the project plan sheets.

To avoid damage to the CRZ, utilities must be augered underneath the public parkway trees. Excavation pits for augering equipment are to be outside the fenced area and are to be shown on the project plan sheets. Excavation pits for roundway keystops and domestic service boxes are to be as small as practical with excavation occurring in a direction away from the adjacent public parkway tree.

In cases when severing of roots within a portion of the CRZ may be unavoidable (ex. sidewalk installation, curb replacement, water or sanitary service replacement), subject to the approval of the Village Forester, sharp clean cuts shall be made on root ends to promote wound closure and root regeneration. Root pruning and excavation activities shall occur such that the smallest volume of soil and roots is disturbed, and the locations shall be shown on the project plan sheets.

In addition to fines and citations that may be assessed for violations of any Chapter 24 of the Municipal Code (such as not maintaining fencing around the CRZ or unauthorized removal of protected trees), the contractor may be subject to the following provisions:

- issuance of an invoice for the value or partial value of the tree lost due to damage to either the above ground or below ground portions of the parkway tree, or unauthorized tree removal.
- costs of repairs, such as pruning or cabling, or costs for removal of the damaged parkway tree along with the stump if the tree cannot remain in the right-of-way.
- fines of \$500 for the 1st offense; \$1,000 for the 2nd offense; \$2,500 for the 3rd and subsequent offenses.
- each day during which a violation continues shall be construed as a separate and distinct offense.

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The value or partial value of the tree lost shall be determined by the Village Forester using the most current edition of the Guide for Plant Appraisal (prepared by the Council of Tree & Landscape Appraisers and the International Society of Arboriculture) and the most current edition of the Species Ratings & Appraisal Factors for Illinois (prepared by the Illinois Arborist Association). The total cost determined for the damage shall be deducted from the payments made to the Contractor for the project. Should the Village hire another Contractor or tree service to complete pruning work, these costs shall also be deducted from the payments made to the Contractor.

Method of Measurement: This work will be measured for payment at the contract unit price per linear foot of fencing as specified. **Only those trees meeting the guidelines and are properly fenced per the specifications shall be counted for payment.** All other work as specified herein shall be considered incidental and will not be paid for separately.

Basis of Payment: All work as specified herein shall not be paid for separately and shall be considered incidental to the contract.

5 CLEANING UP

The Contractor shall, at all times, keep the premises free from an accumulation of waste material or rubbish caused by his employees or work. At the end of the day, he shall remove all his rubbish from and about the streets and sidewalks. All his tools, form boards, and surplus materials shall be removed and relocated to any temporary on-site storage location assigned by the Village or its Engineer, and shall leave his work "broom clean" or its equivalent, unless more precisely defined. Upon completion of the work called for by the contract, and upon final inspection and acceptance, the Contractor shall remove any of his remaining rubbish, tools, form boards, and surplus materials completely from the work site.

In case of dispute, the Village may remove the rubbish or other materials and charge the cost to the Contractor.

6 EXISTING UTILITIES

Existing Public Utilities, such as watermains, sewers, gas lines, streetlights, telephone lines, electric power lines, etc., shall be protected against damage during the construction of this project. The Contractor shall contact the Owners of all public utilities and obtain locations of all utilities within the limits of the proposed construction and make arrangements, if necessary, to adjust or move any existing utility at the utility company's expense. Any expense incurred by the contractor in connection with making arrangements shall be borne by the Contractor and considered incidental to the contract. It shall be this Contractor's responsibility to determine the actual location of all such facilities in the field.

The adjustment of all facilities of Nicor, SBC, the Commonwealth Edison Co., etc. shall be done by the respective utility company, and if known, are indicated on the plans as to be done "By Others". All other utility adjustments to sewer, water, and local facilities shall be performed under this contract, under the supervision of the Owner of the utility, and will be paid for under the respective items in the contract unless otherwise indicated on the plans or directed by the Engineer.

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Any existing facilities, residential or commercial sprinkler systems, etc. disturbed shall be returned to their original condition and any damage to said facilities shall be repaired immediately. The cost of repairs of any damaged utility shall be by agreement between the Contractor and the facility owner or utility company, and at no cost to the Village.

Whenever the locations of existing utilities are known, the approximate location of said utility is indicated on the plans. This information is given only for the convenience of the Bidder and the Village assumes no responsibility as to accuracy of the information provided. The Contractor shall consider in his bid the location of all permanent and temporary utility appurtenances to their present or relocated positions, whether shown on the plans or not, and no additional compensation will be allowed for delays, inconvenience, or special construction methods required due to the existence of said appurtenances.

Whenever obstructions are encountered during the progress of the work and interfere to such an extent that an alteration in the plan is required, the Engineer shall order a deviation in the plan as required, the Engineer shall order a deviation in the line and/or grade to resolve the conflict, or relocation of the obstruction. The Contractor will be compensated for any additional pipe material, fittings, granular backfill, or structures required at the respective contract prices, and measured as specified in the Contract. No additional compensation will be allowed for delays or inconveniences, additional excavation, or any special construction methods required in prosecuting the work due to the existence of said obstruction.

7 CLASS D PATCHES, 4" & 6"

Description: This work shall consist of pavement patching by methods and with materials in accordance with Sec. 442 of the Standard Specifications, except as amended herein.

The Contractor shall not use equipment of excessive size or weight that causes damage to existing pavement or appurtenances. Any damage done to the existing pavement or appurtenances that are to remain in place shall be repaired or removed and replaced by the contractor at his/her own expense, as directed by the Engineer.

Pavement patching shall include the saw cutting of existing pavement to a depth not less than four inches (4") or six inches (6") where marked in the field by the Engineer. Pavement patches shall vary in area but minimum width shall be measured at six feet (6'). Pavement patching shall be to a depth not less than four inches (4") or six inches (6"), and shall be a minimum of 4" or 6" below milled surface when Hot-Mix Asphalt Surface Removal is called for.

Where applicable the existing subbase shall be leveled and compacted. Where remaining base is existing HMA, PCC or brick, the bottom of each prepared hole shall be free of all loose material and a bituminous prime shall be applied to the bottom prior to replacement of HMA patches.

The use of surface removal equipment that complies with Art. 440.04 of the SSRBC will be permitted. The edges of the patch shall be smooth and free of loose material to a depth of not less than four inches or six inches.

The hot-mix asphalt material shall conform to the requirements for Hot-Mix Asphalt Binder Course, IL-19.0, N70.

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Method of Measurement: Pavement removal and replacement will be measured for payment in place, and the area computed in square yards. Patches determined to be 25 square yards or greater in area shall be classified as Type IV, 4" or Type IV, 6". Patches determined to be less than 25 square yards in area shall be classified as 4" Special or 6" Special.

Basis of Payment: This work shall be paid for at the contract unit price per Square Yard for CLASS D PATCHES, TYPE IV, 4" or CLASS D PATCHES, 4" SPECIAL or CLASS D PATCHES, TYPE IV, 6" or CLASS D PATCHES, 6" SPECIAL which price shall be payment in full for the work as specified herein.

8 PAVEMENT REMOVAL & HMA REPLACEMENT, 8" SPECIAL

Description: This work shall consist of pavement patching by methods and with materials in accordance with the applicable parts of Sec. 442 of the Standard Specifications, except as amended herein.

The Contractor shall not use equipment of excessive size or weight that causes damage to existing pavement or appurtenances. Any damage done to the existing pavement or appurtenances that are to remain in place shall be repaired or removed and replaced by the contractor at his/her own expense, as directed by the Engineer.

Pavement patching shall include the full depth saw cutting of the existing pavement as marked by the Engineer. The existing sub-base shall be leveled and compacted. The edges will be smooth and free of loose material to the specified depth of patch.

The hot-mix asphalt material shall conform to the requirements for Hot-Mix Asphalt Binder Course, IL-19.0, N70, and will be placed in compacted lifts not to exceed four inches.

Method of Measurement: Pavement removal and replacement will be measured for payment in place, and the area computed in square yards.

Basis of Payment: This work shall be paid for at the contract unit price per Square Yard for PAVEMENT REMOVAL AND HOT-MIX ASPHALT REPLACEMENT, 8" SPECIAL.

9 PAVEMENT REMOVAL & PCC REPLACEMENT, 8" SPECIAL

Description: This work shall consist of pavement patching by methods and with materials in accordance with the applicable parts of Sec. 442 of the Standard Specifications, regarding Class B patching, except as amended herein.

Patches shall be tied to existing adjacent concrete pavement on all sides with 3/4" x 24" epoxy coated deformed tie bars embedded to a depth of 9" +/- 1/2" on 24" centers. Unless otherwise directed by the Engineer, patch shall also be tied to adjacent curb and gutter

Patch shall also be reinforced by the placement of reinforcement fabric meeting the requirements of Article 1006.10 of the Standard Specifications, at 1/2 patch depth. Support chairs to be used as necessary to maintain proper height of reinforcement fabric.

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Basis of Payment: This work will be paid for at the contract unit price per Square Yard for PAVEMENT REMOVAL AND PORTLAND CEMENT CONCRETE REPLACEMENT, 8" SPECIAL which price shall be payment in full for the work as specified herein.

10 COMBINATION CONCRETE CURB AND GUTTER REMOVAL

Description: This work shall consist of the removal of existing P.C.C. Curb and Gutter of the type and size at the locations noted in Schedule of Quantities. This work shall be performed in accordance with Section 440 of the Standard Specifications, except as amended herein.

This work shall include a full depth, perpendicular, straight joint sawn at the ends and all edges, including along the edge of pavement, of portions to be removed, unless otherwise directed by the engineer.

At those locations where curb removal operations fall within the Critical Root Zone (CRZ) the Contractor will be required to trench with a "chain" driven trencher immediately back of curb prior to curb removal. This procedure will proceed uninterrupted through the CRZ and insure general tree root pruning. The width of the CRZ shall be determined as noted in the general provision for TREE PROTECTION elsewhere in these documents. If it is determined that proposed removal methods do not cause undo harm to adjacent roots, the Village Forester may waive the need to perform trenching.

During removal operations Contractor shall take special care not to damage or extend sawed joint into adjacent appurtenances such as driveways and sidewalks which are to remain in place. During machine sawing operations Contractor shall also take special care to remove, clean, or otherwise account for any residue / slurry produced by the sawing so material will not be tracked by either vehicular or foot traffic onto adjacent appurtenances which are to remain in place.

Basis of Payment: This work will be paid for at the contract unit price per Linear Foot for COMBINATION CONCRETE CURB AND GUTTER REMOVAL which price shall be payment in full for all work specified herein.

11 COMBINATION CONCRETE CURB AND GUTTER OF TYPE SPECIFIED

Description: This work shall consist of the replacement of existing PCC Curb and Gutter in accordance with the applicable parts of Sec. 606 of the Standard Specifications, except as amended herein.

Replacement of curb and gutter shall include the placement of three-quarter inch (3/4") premolded expansion joint filler along the back of curb, for the full depth of the curb and gutter, where abutting existing concrete.

Transverse expansion joints with 3/4" joint filler shall be constructed at five feet (5') either side of utility structures, and at no more than ninety foot (90') intervals. All expansion joints shall include the placement of two (2) three-quarter inch (3/4") dowel bars with pinched stop caps as specified on detail sheet. Two (2) three quarter inch (3/4") dowel bars shall also be placed at all construction joints as specified on detail sheet and shall be drilled into existing curb and gutter a minimum of six inches (6").

New curb and gutter shall be backfilled with existing excavated earth.

Transverse contraction joints shall be constructed at no more than fifteen foot (15') intervals.

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When new curb and gutter is placed adjacent to concrete pavement or base, it shall be tied along the longitudinal construction joint with No. 6 (3/4") bars at 24" centers in accordance with the applicable portions of Article 420.05 of the Standard Specifications.

Placement of curb and gutter as noted on Schedule of Quantities to be reinforced shall also include the placement of two (2) No. 4 (1/2") epoxy coated deformed reinforcement bars meeting the applicable portions of Section 508 of the Standard Specifications. Bars shall be placed at one-half depth of the body of the gutter running the entire length of newly placed sections. Curb and gutter placed as described in this paragraph will be paid for as COMBINATION CONCRETE CURB AND GUTTER (TYPE SPECIFIED), REINFORCED. Including placement of reinforcement bars, placement of curb and gutter as noted on Schedule of Quantities to be reinforced, high early shall be placed with concrete materials meeting the applicable portions of Section 442 of the Standard Specifications. A calcium chloride accelerator will not be permitted. Curb and gutter placed as described in this paragraph shall be paid for as COMBINATION CONCRETE CURB AND GUTTER (TYPE SPECIFIED), REINFORCED, HIGH EARLY.

All voids existing between newly placed curb and gutter and the adjacent roadway pavement shall be filled with Class SI concrete, prior to bituminous surface placement, to a point 1-1/2 inches below finish grade. This work shall be considered incidental.

Placement of curb and gutter shall include the application of membrane curing compound, Type III, in accordance with Articles 1020.13 and 1022.01 of the Standard Specifications unless otherwise directed by the Engineer.

If placement of curb and gutter takes place prior to April 15, or after October 15, the curb and gutter shall be properly cured and that followed by the application of protective coat in accordance with Article 420.18 of the Standard Specifications.

Basis of Payment: This work shall be paid for at the contract unit price per Linear Foot for COMBINATION CONCRETE CURB AND GUTTER (TYPE SPECIFIED) or COMBINATION CONCRETE CURB AND GUTTER (TYPE SPECIFIED), REINFORCED which price shall be payment in full for the work as specified herein.

12 POROUS GRANULAR EMBANKMENT, SPECIAL

Description: This work shall consist of removing and disposing of unsuitable sub-grade, furnishing, placing and compacting porous granular material to the lines and grades shown on the plans or as directed by the Engineer in accordance with the applicable portions of Sections 202 and 207 of the Standard Specifications. The material shall be used as a bridging layer over soft, pumpy, loose soil areas and for placement under water. The material shall conform with Article 1003.04 and 1004.05 of the Standard Specifications except the gradation shall be as follows:

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1. Crushed Stone, Crushed Blast Furnace Slag and Crushed Concrete

<u>Sieve Size</u>	<u>Percent Passing</u>
*6"	97±3
*4"	90±10
2"	45±25
#200	5±5

2. Gravel, Crushed Gravel and Pit Run Gravel

<u>Sieve Size</u>	<u>Percent Passing</u>
*6"	97±3
*4"	90±10
2"	55±25
#4	30±20
#200	5±5

*For undercuts less than 18" the percent passing the 6" sieve may be 90±10 and the 4" sieve requirement eliminated.

The porous granular material shall be placed in one lift when the total thickness to be placed is two (2) feet thick or less or as directed by the Engineer. Rolling each lift of the porous granular material with a vibratory roller meeting the requirements of Article 1101.1 of the Standard Specifications should be sufficient to obtain the desired keying or interlock and necessary compaction. The Engineer shall verify that adequate keying has been obtained.

A three- (3) inch nominal thickness top lift of capping aggregate having a gradation of CA-6 will be required. The use of on-site bituminous grindings resulting from bituminous surface removal, substantially meeting the gradation of CA-6, shall also be permitted. The granular cap shall be compacted to the satisfaction of the Engineer. It shall be the Contractor's responsibility that all proposed bituminous replacement regarding patching and paving operations in these areas will meet the specified performance criteria of their respective pay items.

Construction equipment not necessary for the completion of the replacement material will not be allowed on the undercut areas until completion of the recommended thickness of the porous granular embankment, special.

This work will be measured for payment in accordance with Article 207.04 of the Standard Specifications. When specified on the contract, the theoretical elevation of the bottom of the aggregate subgrade shall be used to determine the upper limit of Porous Granular Embankment, Special. The volume will be computed by the method of average end areas.

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Basis of Payment: This work shall be paid for at the contract unit price per Cubic Yard for: POROUS GRANULAR EMBANKMENT, SPECIAL, which price shall include the capping aggregate, as required.

The Porous Granular Embankment, Special shall be used as field conditions warrant at the time of construction. No adjustment in unit price will be allowed for an increase or decrease in quantities from the estimated quantities shown on the plans.

13 MANHOLES OR INLETS, TO BE ADJUSTED OR RECONSTRUCTED

Description: This item shall be done in accordance with Sec. 602 of the Standard Specifications for Road and Bridge Construction and the following provisions.

All excavation for structure adjustment shall be replaced with Class SI concrete and in accordance with the attached details. For excavation required for reconstructed items, backfill materials shall be mechanically compacted SELECTED GRANULAR BACKFILL placed per the special provision elsewhere in these documents.

Castings shall be set in mortar or bituminous mastic beds. The adjustment of the casting to the required final grade shall be made with precast concrete adjusting rings. Brick, concrete block, or wooden shims will not be permitted.

When adjustments include new frame and grate or new frame and lid, all replacement frames, grates and lids shall be heavy duty. Depending on the type of frame, care shall be taken to properly align the new frame with the curb and gutter, and maintain the proper size opening into the structure.

Although the cost of adjusting structures per this specification will be paid for under this contract, the Contractor shall be aware that many of the structures are not the property of the Village of Downers Grove, and that such work may require inspections and/or permits from other governmental agencies.

For those structures noted on the Schedule of Quantities or as designated by the Engineer as MANHOLE TO BE ADJUSTED, SPECIAL, for that period after Hot-Mix Asphalt Surface Removal operations and prior to adjustment to finished pavement elevation, frames and lids or grates shall be removed from the structure and stored in a safe manner until reused. The resulting void over the structure shall be covered with a steel plate and temporary pavement, or other approved method, capable of carrying the anticipated daily traffic in a safe manner. The Contractor shall also make note of structure location so it may be reestablished after initial bituminous paving operations have been completed.

For those structures designated as INLET TO BE ADJUSTED WITH NEW TYPE 3 FRAME AND GRATE, SPECIAL, the new frame and grate shall be a standard Type 3, or approved equal, except the barred curb box shall be replaced with an open face curb box.

Basis of Payment: This item shall be paid for at the contract unit price Each for MANHOLE TO BE ADJUSTED or MANHOLE TO BE ADJUSTED, SPECIAL or MANHOLE TO BE ADJUSTED WITH NEW FRAME AND LID (TYPE SPECIFIED) or MANHOLE TO BE RECONSTRUCTED.

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This item shall also be paid for at the contract unit price Each for INLET TO BE ADJUSTED or INLET TO BE ADJUSTED WITH NEW TYPE 3 FRAME AND GRATE, SPECIAL or INLET TO BE RECONSTRUCTED which price shall be payment in full for all labor and materials specified herein including backfill with Selected Granular Backfill.

14 TREE ROOT PRUNING

Description: All trees, public or private, affected by new sidewalk installation within its root protection zone, shall be root pruned prior to any excavation taking place. Root pruning shall be performed in accordance with the applicable portions of Section 201 of the Standard Specifications as well as the Tree Protection Zone detail of the Plans. Root pruning shall be done only to the depth of the excavation necessary for installing the new walk. Root pruning shall start and proceed uninterrupted for the length of travel through the root protection zone. Root pruning shall be made no more than 10 inches from the tree-side edge of the proposed walk. Approval by the Village Forester of the equipment to be used for root pruning, as well as the proposed path of the root pruning work, is required prior to the work being performed. The Engineer or his representative shall permit no excavation until written approval is obtained by the Contractor from the Village Forester. Additionally, no materials or equipment may be stored or kept in the Tree Protection Zone. Tree damage, as determined by the Village Forester, shall be assessed to the Contractor using the most recent edition of the Guide for Plant Appraisal, published by the International Society of Arboriculture.

Basis of Payment: This work shall be paid for at the contract unit price per Each for TREE ROOT PRUNING.

15 PORTLAND CEMENT CONCRETE SIDEWALK

Description: This work shall consist of the removal and replacement of P.C.C. Sidewalk in accordance with the SSRBC, except as amended herein.

Removal of sidewalk shall include the saw cutting of existing concrete as directed by the Engineer. Removal of sidewalks shall also include any necessary pruning and removal of tree roots, bituminous paved sidewalks and/or bituminous overlayment of existing sidewalks, or excavation necessary to place the proposed sidewalk. Replacement of sidewalk shall be of the width and thickness as noted on the Schedule of Quantities and as directed by the Engineer. Thickness of the proposed sidewalk shall generally be (5") five inch for standard or courtesy walks, (6") six inch for full width across residential drives, and (8") eight inch for full width across commercial drives.

Placement of P.C.C. sidewalk shall include the excavation for and placement of four inches (4") of Type B, CA-6, compacted aggregate base, the (3/4") three-quarter inch scoring of contraction joints (5') five feet on center, the placing of (1/2") one-half inch premolded expansion joints where new concrete abuts existing concrete and/or at (50') fifty feet on center and/or at the end of a pour. This work shall also include the adjustment to proper grade of all water valve or utility boxes encountered.

Replacement of sidewalk shall include the application of membrane curing compound, Type III, in accordance with Articles 1020.13 and 1022.01 of the Standard Specifications unless otherwise directed by the Engineer.

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At those locations where existing street configuration does not contain curb and gutter, it is necessary to end construction of new sidewalk with a minimum of two (2) feet separation from the existing or proposed edge of pavement. At these locations, a HMA transition sidewalk shall be constructed between the concrete sidewalk and the edge of pavement.

Construction of the transition sidewalk shall include excavation as necessary for the full width of the concrete sidewalk, placement and compaction of the four inches (4") of Type B, CA-6 aggregate base, and the placement and compaction of 5 inches (5") of Hot-Mix Asphalt Surface, Mixture D, N50 (IL 9.5) per the applicable portions of Sec. 442 of the Standard Specifications. Asphalt to be placed in compacted layers not to exceed four inches (4").

Hot-Mix Asphalt Binder Course, IL-19.0, N50 may be utilized for the bottom courses, but in all cases the top course shall be a minimum 1 ½ inch lift of the HMA Surface noted above.

For those locations as noted on the Schedule of Quantities or as designated by the Engineer for Detectable Warnings, work shall be completed in accordance with Section 424 of the SSRBC and the Standards included in the details regarding curb ramps with detectable warnings and as amended herein.

Detectable Warnings will NOT include any placement of full depth red dyed concrete or other on-site fabrication such as stamping or molding the fresh concrete with coloring added to the surface of the concrete.

Detectable Warnings shall be limited to inserts meeting the requirements of the ADAAG and subject to approval by the Village.

Color of detectable warnings shall be brick red. The area of red detectable warning shall be protected from overspray during the application of Type III membrane curing compound.

If replacement of sidewalk takes place prior to April 15, or after October 15, all sidewalk shall be properly cured and that followed by the application of protective coat in accordance with Article 420.18 of the Standard Specifications.

Basis of Payment: This work shall be paid for at the contract unit price per Square Foot for PORTLAND CEMENT CONCRETE SIDEWALK REMOVAL and for PORTLAND CEMENT CONCRETE SIDEWALK, 5" or PORTLAND CEMENT CONCRETE SIDEWALK, 6" or PORTLAND CEMENT CONCRETE SIDEWALK, 8" which price shall be payment in full for the work as specified herein.

Detectable warnings shall be paid for at the contract unit price per Square Foot for DETECTABLE WARNINGS which price shall be in addition to the cost for placement of the 5" sidewalk at the curb ramp.

16 AGGREGATE SHOULDERS, TYPE B

Description: This item shall be done in accordance with Sec. 481 of the SSRBC and shall consist of the construction of approximately two (2) foot wide, four (4) inch deep shoulders or as directed by the Engineer in the area designated by the Engineer.

Unless otherwise directed by the Engineer, existing shoulders with elevations that are too high to accept the proposed aggregate shoulder shall be scraped or excavated as necessary prior to placement of new aggregate.

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This provision shall also apply to existing shoulders that contain too much vegetation or topsoil. Unnecessary damage or debris outside the designated shoulder area shall be removed and repaired and will not be paid for separately but shall be considered incidental to the cost of Aggregate Shoulders, Type B.

Basis of Payment: This work shall be paid for at the contract unit price per Ton for AGGREGATE SHOULDERS, TYPE B which price shall be payment in full for all labor and materials.

17 PARKWAY RESTORATION

Description: This item shall be done in accordance with the applicable portions of Sec. 252 of the Standard Specifications and the following provisions.

As contract work progresses through the Village, parkway restoration work shall commence in a timely manner in areas where permanent placement of new curb and gutter, driveways, sidewalks, etc., has been completed. Under no circumstances shall the Contractor prolong final grading, shaping and sod placement so that the entire project can be permanently restored at the same time.

This work shall consist of the excavation, topsoiling and sodding from a minimum of one and one-half (1-1/2) feet to a maximum of three (3) feet behind or adjacent to all curbs, sidewalks and driveways removed and replaced during the course of construction or as directed by the Engineer. Restoration will also be performed on areas disturbed by storm sewer or culvert construction.

All topsoil to be used for parkway restoration shall be obtained from outside the limits of this improvement, transported to the site and placed at required locations to a minimum depth of 4". All materials shall meet the requirements of Art. 1081.05 of the Standard Specifications. All placement of topsoil shall meet the requirements of Sec. 211 of the Standard Specifications.

All sod shall be an approved grass that is native to the locality of work meeting the requirements of Art. 1081.03 of the Standard Specifications. All placement of sod shall meet the requirements of Sec. 252 of the Standard Specifications.

For that period prior to full parkway restoration, the Contractor shall backfill and grade all disturbed areas so as to insure the safety of the general public. Parkways shall be left in a safe, clean and usable condition conducive to foot traffic and to the satisfaction of the Village. The Contractor shall protect these unfinished areas against erosion and work to keep them weed free.

Basis of Payment: This work shall be paid for at the contract unit price per Square Yard for PARKWAY RESTORATION which price shall be payment in full for any excavation and grading necessary, the furnishing, transporting and placement of all topsoil and sod and the full watering of sod. Unless otherwise directed by the Engineer restoration of disturbed parkways more than three (3) feet behind the back of curb or more than three (3) feet adjacent to newly constructed driveway or sidewalk or more than six (6) feet either side of the newly placed storm sewer or pipe culvert will not be paid for separately but shall be considered incidental to the contract.

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18 **HOT-MIX ASPHALT DRIVEWAY**

Description: This work shall consist of the removal and replacement of asphalt driveways at locations indicated on the plans and/or as required by the Engineer.

The replacement of the driveways shall consist of preparing a subgrade at all required locations, shaping of slopes adjacent to the driveways, the placement and compacting of six inches of CA-6 Aggregate Base, and the placement and compacting of three inches (3") of Hot-Mix Asphalt Surface, Mixture D, N50 (IL 9.5).

This work shall also include the adjustment to proper grade of all water valve or utility boxes encountered.

The locations at which this work will be measured for payment will consist of only those areas bounded by combination concrete curb and gutter. Those areas where the surface course of the pavement flares into existing driveways beyond the limits of the fully improved areas will not be included for payment.

Basis of Payment: This work will be paid for at the contract unit price per Square Yard for HOT-MIX ASPHALT DRIVEWAY REMOVAL and for HOT-MIX ASPHALT DRIVEWAY PAVEMENT, 3" or HOT-MIX ASPHALT DRIVEWAY PAVEMENT, 8" which price shall be payment in full for all work as specified herein.

19 **PORTLAND CEMENT CONCRETE DRIVEWAY**

Description: This work shall consist of the removal and replacement of concrete driveways in accordance with the applicable parts of Sec. 423 of the SSRBC except as amended herein.

This work shall include the placement of ¾" premolded expansion joints where new concrete abuts existing concrete or as directed by the Engineer.

This work shall also include the adjustment to proper grade of all water valve or private utility boxes encountered.

Replacement of the driveways shall include the application of membrane curing compound, Type III, in accordance with Articles 1020.13 and 1022.01 of the SSRBC, unless otherwise directed by the Engineer. If replacement of the driveways takes place prior to April 15, or after October 15, the driveway shall be properly cured and that followed by the application of protective coat in accordance with Article 420.18 of the Standard Specifications.

Basis of Payment: This work will be paid for at the contract unit price per Square Yard for PORTLAND CEMENT CONCRETE DRIVEWAY REMOVAL and for PORTLAND CEMENT CONCRETE DRIVEWAY PAVEMENT, 6" or PORTLAND CEMENT CONCRETE DRIVEWAY PAVEMENT, 8" which price will be payment in full for all work as specified herein.

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20 TEMPORARY RAMP, HMA

Description: This work shall consist of construction and maintenance of hot-mix asphalt ramps for temporary access to all abutting side streets and properties per the applicable portions of Article 406.08 of the SSRBC except as amended herein.

At those locations noted on the plans or as directed by the Engineer, the Contractor shall have sufficient bituminous material at the worksite prior to beginning hot-mix asphalt surface removal operations. After hot-mix asphalt surface removal operations and prior to placement of the permanent pavement, temporary ramps shall be constructed to supply access to all abutting streets and properties where traffic is to be maintained. Unless otherwise directed by the Engineer, construction of temporary bituminous ramps for access to abutting private properties will generally be limited to where surface removal operations are over 2 1/2" inches or more in depth.

Basis of Payment: This work will be paid for at the contract unit price per Square Yard for TEMPORARY RAMP, HOT-MIX ASPHALT, which price shall include all costs of furnishing, placing and maintaining the ramps. Removal of the temporary ramps prior to the placement of permanent pavement shall also be included in this item.

21 DECORATIVE PAVER DRIVEWAY OR SIDEWALK REMOVAL & REPLACEMENT

Description: This work shall consist of removal and replacement of existing decorative concrete or brick paver driveways or sidewalks per the applicable portions of Check Sheet LRS 14 of the SSRBC except as amended herein.

At those locations noted on the plans or as directed by the Engineer, the Contractor shall remove existing decorative pavers in such a manner so that no damage occurs to the pavers and with full intent to reuse said paver blocks. Any decorative paver block damaged to an extent that it may not be reused as part of the final pavement, sidewalk or driveway shall be replaced in kind by the Contractor at no additional cost to the Village.

Extent of existing paver removal shall be at the direction of the Engineer. This removal will only be that amount necessary to construct the new curb and gutter or other appurtenance, and replace the decorative pavers to an acceptable grade and appearance.

At those locations where it is determined that an existing bituminous base warrants removal and replacement or repair, this portion of the work would be performed and measured for payment per the special provision for CLASS D PATCHING, of the necessary thickness.

Basis of Payment: This work will be paid for at the contract unit price per Square Yard for DECORATIVE PAVER DRIVEWAY REMOVAL AND REPLACEMENT, which price shall be payment in full for all materials and work as specified herein.

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22 CONSTRUCTION STAKING

Description: The Contractor shall furnish and place all construction layout stakes for this project. This work shall be conducted by competent personnel with suitable equipment and supervised by a licensed Illinois Land Surveyor. The Contractor shall be responsible for layout for all curb, sidewalk, pipe culvert, driveway and pavement removal and replacement, such that all finished work shall conform substantially to the lines, grades, elevations and dimensions shown on the plans.

The Contractor shall provide adequate control points to construct the individual Project elements, and shall provide the Engineer with adequate control in close proximity to check the compliance of the elements constructed.

Basis of Payment: This work will be paid for at the contract Lump Sum price for CONSTRUCTION STAKING.

23 MANHOLE AND INLET CONSTRUCTION

Description: This work shall consist of the construction of precast concrete drainage structures of the size and type shown on the plans or specified by the Engineer. Included in the contract unit price shall be all excavation, bedding, backfilling and reconnection of all existing inlet and outlet pipe. For all new structures backfill materials shall be mechanically compacted SELECTED GRANULAR BACKFILL placed per the special provision elsewhere in these documents.

All structures in excess of four feet in depth shall be equipped with cast iron steps meeting the standards of ASTM A48. Precast sections shall conform to ASTM C 478 and shall be substantially free from fractures, large or deep cracks and surface roughness. Joints between precast sections shall be designed for rubber gaskets or bituminous mastic material.

Adequate foundation for all structures shall be obtained by removal and replacement of unsuitable materials with well graded granular material; or by tightening with coarse ballast rock, or by such other means as provided for foundation preparation of the connected sewers.

Precast base sections, risers and bottoms, shall be one piece and shall be placed on a well graded granular bedding of not less than two (2) inches in thickness. The bedding course shall be firmly tamped and made smooth and level to assure uniform contact and support of the precast element.

All lift holes shall be completely filled with mortar to ensure water tightness.

Castings shall be set in mortar or bituminous mastic beds. The adjustment of the casting to the required final grade shall be made with precast concrete adjusting rings. Maximum adjustment with rings shall be twelve (12) inches. Brick, concrete block, or wooden shims will not be permitted. Precast concrete adjusting rings shall be set in mortar or bituminous mastic beds.

In pavements, frames and grates or lids shall be heavy duty.

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Basis of Payment: This work shall be paid for at the contract unit price Each for INLET, TYPE A, 24" WITH SALVAGED FRAME AND GRATE or INLET, TYPE A, 24" WITH NEW FRAME AND GRATE (TYPE SPECIFIED) or MANHOLE, TYPE A, 48" WITH NEW FRAME AND GRATE (TYPE SPECIFIED) which price shall be payment in full for all labor and materials specified herein including SELECTED GRANULAR BACKFILL.

24 STORM SEWER (TYPE, MATERIAL, SIZE SPECIFIED)

Description: This item shall consist of the removal and replacement of existing Storm Sewer. Storm sewer shall be constructed with new Reinforced Concrete Pipe (RCP), of the IDOT Type appropriate for the depth of cover and the diameter shown with rubber-gasketed joints ASTM C443, or Ductile Iron Pipe (DIP), Class 52 with rubber-gasketed joints AWWA C – 111 of the diameter shown, or Polyvinyl Chloride (PVC) Pipe SDR 26 with gasketed, bell and spigot, push on type joints conforming to ASTM D3212 of the diameter shown on the Drawings.

Unless otherwise allowed by the Engineer, the Contractor shall place a well compacted, fine aggregate bedding at least four inches below the pipe and extending the entire width of the trench for the length of the pipe.

The pipe shall be placed so that the entire length of the pipe will have full bearing. No blocking of any kind shall be used to adjust the pipe to grade except when used with concrete encasement.

Laying of sewer pipe shall be accomplished to line and grade in the trench only after it has been de-watered and the foundation and/or bedding has been prepared. Mud, silt, gravel, and other foreign material shall be kept out of the pipe and off the jointing surface.

All pipe laid shall be retained in position so as to maintain alignment and joint closure until sufficient backfill has been completed to adequately hold the pipe in place. All pipes shall be laid to conform to the prescribed line and grade shown on the Plans.

The sewer pipe, unless otherwise approved by the Engineer, shall be laid up grade from point of connection on the existing sewer or from a designated starting point. The sewer pipe shall be installed with the bell end forward or upgrade, unless approved otherwise. When pipe laying is not in progress, the forward end of the pipe shall be kept tightly closed with an approved temporary plug.

The following specific items shall be considered incidental to storm sewer pipe construction and their costs shall be merged into the contract unit price per Linear Foot of the storm sewer pipe.

1. Removal of all surplus trench excavation from site.
2. Excavation for and placement of bedding material.
3. Support of trenches, including any necessary bracing or shoring.
4. De-watering of trench or excavation.
5. Placement and compaction of backfill by vibratory plate or other approved mechanical device.
6. Coring into existing drainage structures where connections are called for on the plans.

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Basis of Payment: This work shall be paid for at the contract unit price per Linear Foot for STORM SEWER (TYPE, MATERIAL, SIZE SPECIFIED) which price shall include all labor, material, and equipment necessary for excavation, bedding, installing, jointing, and backfilling the sewers and all incidental work herein specified.

25 SELECTED GRANULAR BACKFILL

Description: All trenches and excavations beneath pavements and driveways, as shown on the plans or as directed by the Engineer in the field, will require SELECTED GRANULAR BACKFILL.

Such material shall meet the applicable requirements of Section 1004 of the SSRBC, except as amended herein. Except for the capping aggregate, the material will meet the gradation for CA-7, CA-11 or the gradation commonly known as ¾" chip.

Backfill shall be placed in maximum 12" lifts and compacted by vibrating plate or other mechanical compacting device in a manner consistent with the Standard Specifications, to ensure that no future settlement occurs.

All backfilling shall be done in accordance with Section 20-2.21 of the Standard Specifications for Water and Sewer Main Construction in Illinois. Specifically, all trenches and excavations other than those shown on the plans or designated by the Engineer to receive SELECTED GRANULAR BACKFILL shall be backfilled by any acceptable method which will not dislodge or damage the pipe, or cause bridging action in the trench. After SELECTED GRANULAR BACKFILL is placed as haunching to one-half pipe outside diameter, spoil material may be used as backfill in turf areas.

All backfilling, including granular bedding and backfill of approved excavated material, and placement and compaction of SELECTED GRANULAR BACKFILL around new or reconstructed storm sewer or structures shall be considered incidental to the contract.

When Select Backfill is placed to the existing surface elevation and used as a temporary driving or walking surface, this item shall also include the maintenance of trench surface in a safe and usable condition, satisfactory to the engineer, until the permanent proposed pavement or walkway is completed.

This item also includes the disposal of the surplus excavated material that is replaced by selected granular backfill. Any material meeting the aforementioned gradation that has been excavated from the trenches may be used for backfilling the trenches. However, no compensation will be allowed as selected granular backfill for the portion of the trench backfilled with excavated material.

Basis of Payment: All work to backfill around new and reconstructed storm sewer or structures with SELECTED GRANULAR BACKFILL shall be considered Incidental to each respective pay item and will not be paid for separately.

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26 **HOT-MIX ASPHALT SURFACE REMOVAL, VARIABLE DEPTH**

Description: This work shall be done in accordance with Section 440 of the SSRBC except as amended herein.

At those locations designated for HMA Surface Removal, Variable Depth, existing HMA material over existing concrete or brick bases varies in thickness. Unless otherwise directed by the engineer, it is intended that existing HMA surface is to be removed exposing the underlying concrete or brick base.

Basis of Payment: This work shall be paid for at the contract unit price per Square Yard for HOT-MIX ASPHALT SURFACE REMOVAL, VARIABLE DEPTH, 2.0" TO 4.5"

27 **DETECTOR LOOP, TYPE 1**

Description: This work shall consist of the replacement of detector loops at the intersection of Franklin Street and Main Street. The placement of the detector loop shall take place after the level binder course but prior to the surface course of asphalt being placed. All detector loop work shall be in accordance with Section 886 of the Standard Specifications.

The Contractor shall supply cut sheets to the Engineer for the wire and sealer to be used. The Contractor shall also notify the Engineer at the time the work is taking place to allow for inspection by Village personnel.

Upon completion of the work, the Contractor shall supply written confirmation that all new and existing detector loops are in working order.

Basis of Payment: This work will be paid for at the contract unit price per Linear Foot of DETECTOR LOOP, TYPE 1, measured along the sawed slot in the pavement, which price shall include furnishing, installing and testing of the detector loop. This price shall also include splicing of new detector loop to existing shielded cable in the adjacent handhole. All work to replace or construct any necessary dive holes shall be considered incidental and will not be paid for separately.

28 **EROSION, SEDIMENTATION AND DUST CONTROL**

Description: Throughout each and every phase of the project, all downstream ditches and storm sewers shall be protected from the run-off of roadway surfaces, excavations, and other construction activities generating the movement of dirt, mud, dust and debris. This work shall consist of constructing temporary erosion and sedimentation control systems as shown on the plans or as directed by the Engineer. The work shall be placed by methods and with materials in accordance with Sections 280, 1080 and 1081 of the SSRBC, except as amended herein.

All roadway surfaces shall be kept free of dirt, mud, dust and debris of any kind at all times through all phases of the project. All downstream ditches shall be protected from erosion and sedimentation by the installation of silt fence ditch checks; straw bales shall not be used. Piles of excavated material and/or trench backfill material, allowed to be in place in excess of three days, shall be protected against erosion and sedimentation

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runoff by use of silt fence. Storm sewer inlet structures or manholes shall be protected by temporary placement of geotextile fabric, filter baskets, or solid lids, as authorized in the field by the Engineer.

Dirt, mud, dust and debris of any kind shall be removed from the roadway surface to the satisfaction of the Engineer by any one or combination of the following: approved mechanical sweeping equipment, manual labor, or other approved techniques.

Erosion and sedimentation control measures as indicated in the Erosion Control Plan, or as directed by the Engineer shall be installed on the project site prior to beginning any construction activities which will potentially create conditions subject to erosion. Erosion control devices shall be in place and approved by the Engineer as to proper placement and installation prior to beginning other work. Erosion control protection for Contractor equipment storage sites, plant sites, and other sites shall be installed by the Contractor and approved by the Engineer prior to beginning construction activities at each site.

On those streets designated for Aggregate Base Repair and Preparation of Aggregate Base, dust control shall include the application of water to the existing aggregate base, as conditions warrant, by water truck or other approved method. Unless otherwise directed by the Engineer, during dry periods between rains, a minimum of two applications per day will be necessary.

Temporary or permanent storage in the flood plain of the following are prohibited unless elevated or flood proofed to one foot above the base flood elevation:

- Items susceptible to flood damage; or
- Unsecured buoyant materials or materials that may cause off-site damage including bulky materials, flammable liquids, chemicals, explosives, pollutants, or other hazardous materials; or
- Landscape waste.

Silt Fence Placement, maintenance, and removal of silt fence at areas designated by the Engineer. The work shall be placed by methods and materials in accordance with Sections 280 and 1080 of the SSRBC, except as amended herein.

Perimeter Erosion Barrier, Special Placement, maintenance, and removal of PERIMETER EROSION BARRIER, SPECIAL shall be by methods and materials in accordance with applicable portions of Sections 280, 1080 and 1081 of the SSRBC, except as amended herein.

Barrier shall be placed approximately one (1 ft) +/- off edge of existing pavement running along the far south end of Cornell Ave as noted on the included location detail.

Barrier shall consist of a combination of excelsior log staked immediately adjacent to a minimum 4ft high protective "snow" fence. Barrier is intended to protect more sensitive vegetation and turf areas from runoff and any and all workers and equipment during the duration of the improvements. All contract work on this designated section of Cornell Avenue shall take place inside or within the PERIMETER EROSION BARRIER, SPECIAL.

DEFICIENCY CHARGE:

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The Village reserves the right to apply deficiency deductions per the applicable portions of Article 105.03 of the SSRBC.

Basis of Payment: This work shall be paid for at the contract Lump Sum price for: EROSION, SEDIMENTATION AND DUST CONTROL except for INLET FILTERS and PERIMETER EROSION BARRIER, SPECIAL which shall be paid for separately.

This work shall also be paid for at the contract unit price per Each for INLET FILTERS or INLET FILTERS CLEANING and at the contract unit price per Linear Foot for PERIMETER EROSION BARRIER, SPECIAL.

29 TRAFFIC CONTROL, MAINTENANCE OF TRAFFIC

Description: This item shall include the furnishing, installing, maintaining, relocating and removing of all traffic control devices and personnel used for the purpose of regulating, warning, or directing traffic during the construction of this project. Placement and maintenance of all traffic control devices shall be in accordance with the applicable parts of Article 107.14 and Section 701 of the Standard Specifications and included Highway Standards. All traffic control devices used on this project shall conform to the Standard Specifications for Traffic Control Devices and the Illinois Manual on Uniform Traffic Control Devices. No waiving of these requirements will be allowed without prior written approval of the Engineer.

The Contractor shall protect all workers engaged in the project, and shall provide for safe and convenient public travel by providing adequate traffic control under all circumstances. Such circumstances may include, but not be limited to work performed along the route under construction, road closures for construction operations of any type, or when any section of the road is opened to traffic prior to completion of all work. The Contractor shall ensure that work zone in question is properly signed, barricaded and otherwise marked.

The contractor will be responsible for the proper location, installation, and arrangement of all traffic control devices during the period of construction. All open excavations shall be protected by Type I barricades equipped with working bi-directional flashing lights at each end of the excavation, as well as at 50-foot intervals between ends for excavations greater than 50 feet in length and weighted down by **one sandbag per each barricade**. All street closures shall be protected by Type III barricades equipped with working bi-directional flashing lights and weighted down by **eight sandbags per each barricade**.

The Contractor shall plan his work so that there will be no open excavations during non-working hours and that all barricades not necessary have been removed from the pavement during non-working hours.

In the event that one direction of vehicular travel must be closed, the Contractor has the option of setting up a detour route or using flaggers (minimum of two) to direct traffic around the work area. The Engineer shall approve proper signing and barricading of the detour route and lane closures, and shall issue written authorization prior to closure.

In the event that both directions of vehicular travel must be closed, the Contractor shall set up a detour route to direct traffic around the work area. The Engineer shall approve proper signing and barricading of the detour route and shall issue written authorization prior to closure.

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The Contractor shall maintain his operations in a manner such that traffic flow shall not be substantially impeded during the construction of the proposed improvements. Where traffic must cross open trenches during a given work day, the Contractor shall provide steel plates at street intersections and driveways. Prior to the end of a given work day, the pavement surface shall be temporarily restored.

No open excavation may be left overnight or on the weekend without the express written permission of the Engineer.

No street closure shall be permitted without the express written permission of the Engineer. No street closure may exceed 800 linear feet, nor be in effect from Friday night at 4:30PM to Monday morning at 9:00AM. Where it is necessary to establish a temporary detour, all the requirements of the Standard Specifications and MUTCD shall be met.

As the condition and location of the work changes, the Contractor shall maintain all traffic control devices and personnel engaged in traffic control, in a manner that will accommodate the changing particulars of the work at any given time. Advance warnings, detour and directional information and other controls or directions necessary for safe passage of traffic around the work site shall be reviewed and changed, if necessary, to meet the needs of the situation. Signage erected, but not necessary or proper for the situation ahead shall be covered or taken down. Barricading and signage shall be monitored by the Contractor on a daily basis to ensure that it meets the requirements for work zone safety for the conditions of the particular work being performed.

The Contractor shall provide a name and phone number of a responsible party capable of providing emergency service, 24 hours per day, for the duration of the Project.

DEFICIENCY CHARGE:

The primary concern of the Village is to maintain a safe travel way for the public and a safe environment for the work in the construction zone. The Contractor is expected to comply with the Standard Specifications, contract plans, the Special Provisions and directions from the Engineer concerning traffic control and protection. The Contractor shall provide a telephone number where a responsible individual can be contacted on a 24-hour-a-day basis to receive notification of any deficiencies regarding traffic control and protection. The Contractor shall immediately respond correcting traffic control deficiencies by dispatching workers, materials and equipment to correct such deficiencies.

Failure to comply with directions from the Engineer for corrections or modifications to the traffic control and protection will result in a deduction of either \$1,000 or 0.05 percent of the awarded contract value, whichever is greater, in accordance with Article 105.03. This charge is separate from the cost of any corrective work ordered. The Contractor shall not be relieved of any contractual responsibilities by the Village's actions.

Basis of Payment: This work shall be paid for at the contract Lump Sum price for TRAFFIC CONTROL, MAINTENANCE OF TRAFFIC which price shall be payment in full for the installation and maintenance of proper traffic control to protect the work and public for the duration of the Project.

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30 HOT-MIX ASPHALT BINDER AND SURFACE COURSE

This item shall be done in accordance with all applicable parts of Sections 406 and 1030 of the SSRBC, the included D-1 and BDE Specifications, and included mix table.

All preparation of the existing base shall be considered incidental to its respective pay item. This shall include but not be limited to cleaning cracks with an air compressor or other approved method prior to placement of mixture for cracks, joints and flangeways.

The target value for the air voids of the Hot-Mix Asphalt Surface Course, Mix D, N50 shall be 3.5% at the design number of gyrations.

Basis of Payment: Prime Coat shall be paid for at the contract unit price per pound of residual asphalt applied for BITUMINOUS MATERIALS (PRIME COAT).

The HMA surfacing shall be paid for at the contract unit price per Ton for MIXTURE FOR CRACKS, JOINTS AND FLANGEWAYS, and LEVELING BINDER (MACHINE METHOD), N50, and HOT-MIX ASPHALT SURFACE COURSE, MIX D, N50.

31 IEPA CLEAN CONSTRUCTION AND DEMOLITION DEBRIS

Description: If construction activities will result in removal and disposal of excavation spoils, per Illinois Public Act 96-1416 and the Illinois Environmental Protection Agency, soil sampling and analysis, along with certification from a licensed professional engineer (PE) or licensed professional geologist (PG) that the soil is uncontaminated, will be required prior to clean construction and demolition debris (CCDD) facility acceptance. However, if the subject property has never been used for industrial or commercial purposes, and is not adjacent to Potentially Impacted Properties (PIP's), then the site owner or operator may certify that the soil is uncontaminated by use of IEPA form LPC-662.

To facilitate meeting the above requirements, the Village will supply a signed LPC-663 or LPC-662 form. Neither the LPC-663/662, nor the report shall be considered a guarantee that excavated material shall meet the requirements of Illinois Public Act 96-1416, and the Contractor shall be responsible for satisfactory removal and disposal of all material as specified herein. No additional environmental testing of the existing on-site material may be performed without prior written permission from the Engineer. In the event that Contractor performs any additional testing without the written permission of the Engineer, Contractor will be required to properly and legally dispose of all material from the project site, regardless of its suitability for disposal in a CCDD facility, at his own expense, without any additional payment for testing, hauling and disposal as specified below.

The Village anticipates that one or more of the following CCDD facilities will accept material from this project:

- Reliable Lyons CCDD, 4226 Lawndale Ave, Lyons, IL 60534
- Hanson Material Service, 125 N Independence Blvd Romeoville, IL 60446
- Bluff City Materials, 1245 Gifford Rd, Elgin, IL 60120
- Vulcan Materials, 5500 Joliet Rd, McCook, IL 60525
- Heartland Recycling Aurora CCDD, Mettel Rd, Aurora, IL 60505

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Contractor shall consult with these facilities prior to submitting a bid for this project. Contractor shall base his bid on hauling all CCDD generated by this project to these facilities. No additional compensation will be allowed for hauling to any other facilities, for any reason, unless none of the above listed facilities will accept the material. If an alternate facility was approved by the Village prior to bid submittal, and that facility will no longer accept the material, the facilities listed above shall be used by the Contractor at no additional cost to the Village, unless none of the above facilities will accept the material. In the case where neither any of the above listed facilities, nor a pre-approved alternate facility, will accept the material, the Village and Contractor shall attempt to locate an alternate facility, unless the material is classified as unsuitable for disposal in a CCDD facility, in which case it shall be hauled to a landfill and paid for as specified below. Should the Contractor wish to haul material to an alternate facility, the name, location and contact information for the proposed facility shall be submitted to the Village for evaluation, a minimum of five (5) calendar days prior to submission of a bid. Any costs associated with additional sampling, analysis, and/or reporting to meet the acceptance requirements of the alternate facility shall be borne by the bidding Contractor and included within the Contractor's bid. By submitting a bid, Contractor agrees that at least one (1) of the above listed facilities, or an alternate facility approved by the Village in writing prior to the submission of the bid, will accept the material and shall be used for disposal of all CCDD from this project, unless otherwise determined to be non-hazardous special waste as specified below. In the event that the Contractor needs to alter the CCDD facility used for placement of excavated material, the Contractor shall notify the Engineer no later than three (3) days in advance of the planned alteration. In no event shall material be hauled to an alternate facility without the written permission of the Engineer.

Construction Requirements: The Contractor shall be responsible for satisfactory removal and disposal of all waste material, asphalt, concrete, stone, dirt, and debris generated or discovered in the course of the work. Removal and disposal of excavation items being disposed of at a clean construction and demolition debris (CCDD) facility shall meet the requirements of Public Act 96-1416. This work shall be incidental and shall not be paid for separately, with the exception of the **ADDITIONAL HAULING SURCHARGE, NON-HAZARDOUS SPECIAL WASTE** as specified below.

The temporary storing of excavated materials within the public right-of-way or project limits shall not be allowed unless approved by the Engineer. It shall be the Contractor's responsibility to find an approved dumpsite for debris and any excavated materials. The Village will not provide one.

The Contractor shall employ a licensed testing firm, as approved by Engineer, to screen each truck-load of material on-site, using a PID or FID field screen or other acceptable method. The PID shall be calibrated on a daily basis. The Contractor shall enter all truck-loads leaving the site into an on-site screening log including, but not limited to, project name, date, time, weather conditions, name of screener, hauling company, truck number, screening method, background PID reading, calibrated PID reading, truck/bucket PID reading, and description of materials screened. Each day prior to the first truck leaving the site, Engineer and Contractor's testing consultant shall agree on the allowable PID reading in accordance with the receiving CCDD facility procedures (typically 0.0 or daily background levels). The receiving CCDD facility may be consulted daily, or periodically, as needed to verify that the appropriate value is being used. If said screen indicates levels that will be unacceptable for disposal at the CCDD facility, the material shall be quarantined on-site for further evaluation. If material is rejected at the CCDD facility, it shall be returned to the project site and quarantined for further evaluation. No additional compensation shall be allowed for returning a rejected load back to the project site, or any other additional hauling, loading, unloading, etc, as may be required. Should it be determined by the Village or Village's agent that the material is not suitable for disposal in a CCDD facility,

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the Contractor shall be responsible for properly disposing of the material at an acceptable landfill, and providing the Village with all of the proper paperwork to document the material disposal with the IEPA. This work shall be paid for as specified below. If a truck-load is rejected by a CCDD facility after leaving the project site, and said truck-load is not identified in the on-site screening log, the Contractor shall still be required to properly dispose of the material and provide the Village with the necessary documentation, but shall not be additionally compensated as specified below.

All additional work to satisfy these requirements shall be the responsibility of the Contractor. All costs associated with meeting these requirements shall be paid for as specified herein. These costs shall include but are not limited to all required testing, lab analysis, and certification by a licensed professional engineer (PE) or licensed professional geologist (PG), if required, in addition to the cost of additional hauling, dump fees, etc. Payment for this work shall be in addition to payment for EARTH EXCAVATION per the contract unit price. No adjustment to the contract unit price will be allowed due to changes to quantities based on actual field conditions.

Basis of Payment: This work shall be paid for at the contract unit price per **LOAD** for **ADDITIONAL HAULING SURCHARGE, NON-HAZARDOUS SPECIAL WASTE**, which price shall be payment in full for the work as specified herein.

SPECIAL PROVISION
FOR
CONSTRUCTION DEBRIS

Effective October 18, 1999

Add the following to the third paragraph of Article 202.03 of the Standard Specifications:

“The Contractor shall not conduct any generation, transportation, or recycling of construction or demolition debris, clean or general or uncontaminated soil generated during construction, remodeling, repair, and demolition of utilities, structures, and roads that is not commingled with any waste, without the maintenance of documentation identifying the hauler, generator, place of origin of the debris or soil, the weight or volume of the debris or soil, and the location, owner, and operator of the facility where the debris or soil was transferred, disposed, recycled or treated. This documentation must be maintained by the Contractor for 3 years.”

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ADJUSTMENTS AND RECONSTRUCTIONS

Effective: March 15, 2011

Revise the first paragraph of Article 602.04 to read:

“602.04 Concrete. Cast-in-place concrete for structures shall be constructed of Class SI concrete according to the applicable portions of Section 503. Cast-in-place concrete for pavement patching around adjustments and reconstructions shall be constructed of Class PP-1 concrete, unless otherwise noted in the plans, according to the applicable portions of Section 1020.”

Revise the third, fourth and fifth sentences of the second paragraph of Article 602.11(c) to read:

“Castings shall be set to the finished pavement elevation so that no subsequent adjustment will be necessary, and the space around the casting shall be filled with Class PP-1 concrete, unless otherwise noted in the plans, to the elevation of the surface of the base course or binder course. HMA surface or binder course material shall not be allowed. The pavement may be opened to traffic according to Article 701.17(e)(3)b.”

Revise Article 603.05 to read:

“603.05 Replacement of Existing Flexible Pavement. After the castings have been adjusted, the surrounding space shall be filled with Class PP-1 concrete, unless otherwise noted in the plans, to the elevation of the surface of the base course or binder course. HMA surface or binder course material shall not be allowed. The pavement may be opened to traffic according to Article 701.17(e)(3)b.”

Revise Article 603.06 to read:

“603.06 Replacement of Existing Rigid Pavement. After the castings have been adjusted, the pavement and HMA that was removed, shall be replaced with Class PP-1 concrete, unless otherwise noted in the plans, not less than 9 in. (225 mm) thick. The pavement may be opened to traffic according to Article 701.17(e)(3)b.

The surface of the Class PP concrete shall be constructed flush with the adjacent surface.”

Revise the first sentence of Article 603.07 to read:

“603.07 Protection Under Traffic. After the casting has been adjusted and the Class PP concrete has been placed, the work shall be protected by a barricade and two lights according to Article 701.17(e)(3)b.”

DRAINAGE AND INLET PROTECTION UNDER TRAFFIC (DISTRICT 1)

Effective: April 1, 2011

Revised: April 2, 2011

Add the following to Article 603.02 of the Standard Specifications:

- “(i) Temporary Hot-Mix Asphalt (HMA) Ramp (Note 1) 1030
- “(j) Temporary Rubber Ramps (Note 2)

Note 1. The HMA shall have maximum aggregate size of 3/8 in. (95 mm).

Note 2. The rubber material shall be according to the following.

Property	Test Method	Requirement
Durometer Hardness, Shore A	ASTM D 2240	75 ±15
Tensile Strength, psi (kPa)	ASTM D 412	300 (2000) min
Elongation, percent	ASTM D 412	90 min
Specific Gravity	ASTM D 792	1.0 - 1.3
Brittleness, °F (°C)	ASTM D 746	-40 (-40)”

Revise Article 603.07 of the Standard Specifications to read:

“**603.07 Protection Under Traffic.** After the casting has been adjusted and the Class PP concrete has been placed, the work shall be protected by a barricade and two lights according to Article 701.17(e)(3)b.

When castings are under traffic before the final surfacing operation has been started, properly sized temporary ramps shall be placed around the drainage and/or utility castings according to the following methods.

- (a) Temporary Asphalt Ramps. Temporary hot-mix asphalt ramps shall be placed around the casting, flush with its surface and decreasing to a featheredge in a distance of 2 ft (600 mm) around the entire surface of the casting.
- (b) Temporary Rubber Ramps. Temporary rubber ramps shall only be used on roadways with permanent posted speeds of 40 mph or less and when the height of the casting to be protected meets the proper sizing requirements for the rubber ramps as shown below.

Dimension	Requirement
Inside Opening	Outside dimensions of casting + 1 in. (25 mm)

Thickness at inside edge	Height of casting \pm 1/4 in. (6 mm)
Thickness at outside edge	1/4 in. (6 mm) max.
Width, measured from inside opening to outside edge	8 1/2 in. (215 mm) min

Placement shall be according to the manufacturer's specifications.

Temporary ramps for castings shall remain in place until surfacing operations are undertaken within the immediate area of the structure. Prior to placing the surface course, the temporary ramp shall be removed. Excess material shall be disposed of according to Article 202.03."

HMA MIXTURE DESIGN REQUIREMENTS (D-1)

Effective: January 1, 2013

Revised: November 1, 2014

1) Design Composition and Volumetric Requirements

Revise the last sentence of the first paragraph of Article 312.05 of the Standard Specifications to read:

“The minimum compacted thickness of each lift shall be according to Article 406.06(d).”

Delete the minimum compacted lift thickness table in Article 312.05 of the Standard Specifications.

Revise the second paragraph of Article 355.02 of the Standard Specifications to read:

“The mixture composition used shall be IL-19.0.”

Revise Article 355.05(a) of the Standard Specifications to read:

“(a) The top lift thickness shall be 2 1/4 in. (60 mm) for mixture composition IL-19.0.”

Revise the Leveling Binder table and second paragraph of Article 406.05(c) of the Standard Specifications to read:

“Leveling Binder	
Nominal, Compacted, Leveling Binder Thickness, in. (mm)	Mixture Composition
≤ 1 1/4 (32)	IL-4.75, IL-9.5, or IL-9.5L
> 1 1/4 to 2 (32 to 50)	IL-9.5 or IL-9.5L

The density requirements of Article 406.07(c) shall apply for leveling binder, machine method, when the nominal compacted thickness is: 3/4 in. (19 mm) or greater for IL-4.75 mixtures; and 1 1/4 in. (32 mm) or greater for IL-9.5 and IL-9.5L mixtures.”

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

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

Revise the ninth paragraph of Article 406.14 of the Standard Specifications to read:

“Test strip mixture will be evaluated at the contract unit price according to the following.”

Revise Article 406.14(a) of the Standard Specifications to read:

“(a) If the HMA placed during the initial test strip is determined to be acceptable the mixture will be paid for at the contract unit price.”

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

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

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

“(c) If the HMA placed during the initial test strip (1) is determined to be unacceptable to remain in place by the Engineer, and (2) was produced within 2.0 to 6.0 percent air voids and within the individual control limits of the JMF according to the Department’s test results, the mixture shall be removed. Removal will be paid according to Article 109.04. This initial mixture will be paid for at the contract unit price. An additional test strip shall be constructed and the mixture will be paid for in full, if produced within 2.0 to 6.0 percent air voids and within the individual control limits of the JMF.”

Delete Article 406.14(d) of the Standard Specifications.

Delete Article 406.14(e) of the Standard Specifications.

Delete the last sentence of Article 407.06(c) of the Standard Specifications.

Revise Note 2. of Article 442.02 of the Standard Specifications to read:

“Note 2. The mixture composition of the HMA used shall be IL-19.0 binder, designed with the same Ndesign as that specified for the mainline pavement.”

Delete the second paragraph of Article 482.02 of the Standard Specifications.

Revise the first sentence of the sixth paragraph of Article 482.05 of the Standard Specifications to read:

“When the mainline HMA binder and surface course mixture option is used on resurfacing projects, shoulder resurfacing widths of 6 ft (1.8 m) or less may be placed simultaneously with the adjacent traffic lane for both the binder and surface courses.”

Revise the second sentence of the fourth paragraph of Article 601.04 of the Standard Specifications to read:

“The top 5 in. (125 mm) of the trench shall be backfilled with an IL-19.0L Low ESAL mixture meeting the requirements of Section 1030 and compacted to a density of not less than 90 percent of the theoretical density.”

Revise the second sentence of the fifth paragraph of Article 601.04 of the Standard Specifications to read:

“The top 8 in. (200 mm) of the trench shall be backfilled with an IL-19.0L Low ESAL mixture meeting the requirements of Section 1030 and compacted to a density of not less than 90 percent of the theoretical density.”

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. The fine aggregate gradation for SMA shall be FA/FM 20.

For mixture IL-4.75 and surface mixtures with an Ndesign = 90, at least 50 percent of the required fine aggregate fraction shall consist of either stone sand, slag sand, or steel slag meeting the FA 20 gradation.

For mixture IL-19.0, Ndesign = 90 the fine aggregate fraction shall consist of at least 67 percent manufactured sand meeting FA 20 or FA 22 gradation. For mixture IL-19.0, Ndesign = 50 or 70 the fine aggregate fraction shall consist of at least 50 percent manufactured sand meeting FA 20 or FA 22 gradation. The manufactured sand shall be stone sand, slag sand, steel slag sand, or combinations thereof.

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

Delete the last sentence of the first paragraph of Article 1004.03(b) of the Standard Specifications.

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

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

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

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

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

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

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

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

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

1/ Uses 19.0L binder mix.

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

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

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

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

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

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

Note 3. A stabilizing additive such as cellulose or mineral fiber shall be added to the SMA mixture according to Illinois Modified AASHTO M 325. The stabilizing additive

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

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

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

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

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

1/ Based on percent of total aggregate weight.

2/ The mixture composition shall not exceed 44 percent passing the #8 (2.36 mm) sieve for surface courses with Ndesign = 90.

- 3/ Additional minus No. 200 (0.075 mm) material required by the mix design shall be mineral filler, unless otherwise approved by the Engineer.
- 4/ The maximum percent passing the #635 (20 μ m) sieve shall be \leq 3 percent.
- 5/ When establishing the Adjusted Job Mix Formula (AJMF) the percent passing the #8 (2.36 mm) sieve shall not be adjusted above the percentage stated on the table.
- 6/ When establishing the Adjusted Job Mix Formula (AJMF) the percent passing the #8 (2.36 mm) sieve shall not be adjusted below 34 percent.

Delete Article 1030.04(a)(3) of the Standard Specifications.

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

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

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

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

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

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

Revise the table in Article 1030.04(b)(2) of the Standard Specifications to read:

"VOLUMETRIC REQUIREMENTS Low ESAL				
Mixture Composition	Design Compactive Effort	Design Air Voids Target %	VMA (Voids in the Mineral Aggregate), % min.	VFA (Voids Filled with Asphalt Binder), %
IL-9.5L	N _{DES} =30	4.0	15.0	65-78
IL-19.0L	N _{DES} =30	4.0	13.5	N/A"

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

"(3) SMA Mixtures.

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

- 1/ Maximum draindown shall be 0.3 percent. The draindown shall be determined at the JMF asphalt binder content at the mixing temperature plus 30 °F.
- 2/ Applies when specific gravity of coarse aggregate is ≥ 2.760.
- 3/ Applies when specific gravity of coarse aggregate is < 2.760.
- 4/ Blending of different types of aggregate will not be permitted. For surface course, the coarse aggregate can be crushed steel slag, crystalline crushed stone or crushed sandstone. For binder course, coarse aggregate shall be crushed stone (dolomite), crushed gravel, crystalline crushed stone, or crushed sandstone.

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

Delete Article 1030.04(b)(5) from the Supplemental Specifications.

Delete last sentence of the second paragraph of Article 1102.01(a) (13) a.

Add to second paragraph in Article 1102.01 (a) (13) a.:

"As an option, collected bag-house dust may be used in lieu of manufactured mineral filler, provided; 1) there is enough available for the production of the SMA mix for the entire project and 2) a mix design was prepared with collected bag-house dust."

Revise the table in Article 1030.05(d)(2)a. of the Standard Specifications to read:

Parameter	Frequency of Tests		Test Method See Manual of Test Procedures for Materials
	High ESAL Mixture	Low ESAL Mixture	
Aggregate Gradation % passing sieves: 1/2 in. (12.5 mm), No. 4 (4.75 mm), No. 8 (2.36 mm), No. 30 (600 µm) No. 200 (75 µm)	1 washed ignition oven test on the mix per half day of production	Note 3.	Illinois Procedure
Asphalt Binder Content by Ignition Oven Note 1.	1 per half day of production		Illinois-Modified AASHTO T 308
VMA Note 2.	Day's production ≥ 1200 tons: 1 per half day of production		Illinois-Modified AASHTO R 35
	Day's production < 1200 tons: 1 per half day of production for first 2 days and 1 per day thereafter (first sample of the day)		
Air Voids Bulk Specific Gravity of Gyratory Sample Note 4.	Day's production ≥ 1200 tons: 1 per half day of production		Illinois-Modified AASHTO T 312
	Day's production < 1200 tons: 1 per half day of production for first 2 days and 1 per day thereafter (first sample of the day)		
Maximum Specific Gravity of Mixture	Day's production ≥ 1200 tons: 1 per half day of production		Illinois-Modified AASHTO T 209
	Day's production < 1200 tons: 1 per half day of production for first 2 days and 1 per day thereafter (first sample of the day)		

- Note 1. The Engineer may waive the ignition oven requirement for asphalt binder content if the aggregates to be used are known to have ignition asphalt binder content calibration factors which exceed 1.5 percent. If the ignition oven requirement is waived, other Department approved methods shall be used to determine the asphalt binder content.
- Note 2. The G_{sb} used in the voids in the mineral aggregate (VMA) calculation shall be the same average G_{sb} value listed in the mix design.
- Note 3. The Engineer reserves the right to require additional hot bin gradations for batch plants if control problems are evident.
- Note 4. The WMA compaction temperature for mixture volumetric testing shall be 270 ± 5 °F (132 ± 3 °C) for quality control testing. The WMA compaction temperature for quality assurance testing will be 270 ± 5 °F (132 ± 3 °C) if the mixture is not allowed to cool to room temperature. If the mixture is allowed to cool to room temperature, it shall be reheated to standard HMA compaction temperatures.”

Revise the table in Article 1030.05(d)(2)b. of the Standard Specifications to read:

“Parameter	High ESAL Mixture Low ESAL Mixture
Ratio Dust/Asphalt Binder	0.6 to 1.2
Moisture	0.3 %”

Revise the Article 1030.05(d)(4) of the Supplemental Specifications to read:

- “(4) Control Limits. Target values shall be determined by applying adjustment factors to the AJMF where applicable. The target values shall be plotted on the control charts within the following control limits.

"CONTROL LIMITS						
Parameter	High ESAL		SMA		IL-4.75	
	Individual Test	Moving Avg. of 4	Test	Moving Avg. of 4	Individual Test	Moving Avg. of 4
% Passing: ^{1/}						
1/2 in. (12.5 mm)	± 6 %	± 4 %	± 6 %	± 4 %		
3/8 in. (9.5mm)			± 4 %	± 3 %		
No. 4 (4.75 mm)	± 5 %	± 4 %	± 5 %	± 4 %		
No. 8 (2.36 mm)	± 5 %	± 3 %	± 4 %	± 2 %		
No. 16 (1.18 mm)			± 4 %	± 2 %	± 4 %	± 3 %
No. 30 (600 µm)	± 4 %	± 2.5 %	± 4 %	± 2.5 %		
Total Dust Content No. 200 (75 µm)	± 1.5 %	± 1.0 %			± 1.5 %	± 1.0 %
Asphalt Binder Content	± 0.3 %	± 0.2 %	± 0.2 %	± 0.1 %	± 0.3 %	± 0.2 %
Voids	± 1.2 %	± 1.0 %	± 1.2 %	± 1.0 %	± 1.2 %	± 1.0 %
VMA	-0.7 % ^{2/}	-0.5 % ^{2/}	-0.7 % ^{2/}	-0.5 % ^{2/}	-0.7 % ^{2/}	-0.5 % ^{2/}

1/ Based on washed ignition oven

2/ Allowable limit below minimum design VMA requirement

DENSITY CONTROL LIMITS		
Mixture Composition	Parameter	Individual Test
IL-4.75	N _{design} = 50	93.0 - 97.4 % ^{1/}
IL-9.5	N _{design} = 90	92.0 - 96.0 %
IL-9.5, IL-9.5L	N _{design} < 90	92.5 - 97.4 %
IL-19.0	N _{design} = 90	93.0 - 96.0 %
IL-19.0, IL-19.0L	N _{design} < 90	93.0 ^{2/} - 97.4 %
SMA	N _{design} = 80	93.5 - 97.4 %

1/ Density shall be determined by cores or by correlated, approved thin lift nuclear gauge.

2/ 92.0 % when placed as first lift on an unimproved subgrade."

Revise the table in Article 1030.05(d)(5) of the Supplemental Specifications to read:

"CONTROL CHART REQUIREMENTS	High ESAL, Low ESAL, SMA & IL-4.75
Gradation ^{1/3/}	% Passing Sieves: 1/2 in. (12.5 mm) ^{2/} No. 4 (4.75 mm) No. 8 (2.36 mm) No. 30 (600 µm)
Total Dust Content ^{1/}	No. 200 (75 µm)
	Asphalt Binder Content
	Bulk Specific Gravity
	Maximum Specific Gravity of Mixture
	Voids
	Density
VMA	

1/ Based on washed ignition oven.

2/ Does not apply to IL-4.75.

3/ SMA also requires the 3/8 in. (9.5 mm) sieve."

Delete Article 1030.05(d)(6)a.1.(b.) of the Standard Specifications.

Delete Article 1030.06(b) of the Standard Specifications.

Delete Article 1102.01(e) of the Standard Specifications.

2) Design Verification and Production

Description. The following states the requirements for Hamburg Wheel and Tensile Strength testing for High ESAL, IL-4.75, and Stone Matrix Asphalt (SMA) hot-mix asphalt (HMA) mixes during mix design verification and production.

Mix Design Testing. Add the following below the referenced AASHTO standards in Article 1030.04 of the Standard Specifications:

AASHTO T 324 Hamburg Wheel Test

AASHTO T 283 Tensile Strength Test

Add the following to Article 1030.04 of the Standard Specifications:

"(d) Verification Testing. High ESAL, IL-4.75, and SMA mix designs submitted for verification will be tested to ensure that the resulting mix designs will pass the required criteria for the Hamburg Wheel Test (IL mod AASHTO T-324) and the

Tensile Strength Test (IL mod AASHTO T-283). The Department will perform a verification test on gyratory specimens compacted by the Contractor. If the mix fails the Department's verification test, the Contractor shall make the necessary changes to the mix and resubmit compacted specimens to the Department for verification. If the mix fails again, the mix design will be rejected.

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

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

Illinois Modified AASHTO T 324 Requirements ^{1/}

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

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

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

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

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

- "(a) High ESAL, IL-4.75, WMA, and SMA Mixtures. For each contract, a 300 ton (275 metric tons) test strip, except for SMA mixtures it will be 400 ton (363 metric ton), will be required at the beginning of HMA production for each mixture with a quantity of 3000 tons (2750 metric tons) or more according to the Manual of Test Procedures for Materials "Hot Mix Asphalt Test Strip Procedures".

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

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

The limitations between the JMF and AJMF are as follows.

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

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

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

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

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

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

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

"(b) Low ESAL Mixtures."

Add the following to Article 1030.06 of the Standard Specifications:

"(c) Hamburg Wheel Test. All HMA mixtures shall be sampled within the first 500 tons (450 metric tons) on the first day of production or during start up with a split reserved for the Department. The mix sample shall be tested according to the Illinois Modified AASHTO T 324 and shall meet the requirements specified herein. Mix production shall not exceed 1500 tons (1350 metric tons) or one day's production, whichever comes first, until the testing is completed and the mixture is found to be in conformance. The

requirement to cease mix production may be waived if the plant produced mixture demonstrates conformance prior to start of mix production for a contract.

The Department may conduct additional Hamburg Wheel Tests on production material as determined by the Engineer. If the mixture fails to meet the Hamburg Wheel criteria, no further mixture will be accepted until the Contractor takes such action as is necessary to furnish a mixture meeting the criteria”

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

Method of Measurement:

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

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

Basis of Payment.

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

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

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

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

Effective: November 1, 2012

Revise: January 2, 2015

Revise Section 1031 of the Standard Specifications to read:

"SECTION 1031. RECLAIMED ASPHALT PAVEMENT AND RECLAIMED ASPHALT SHINGLES

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

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

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

- (a) RAP Stockpiles. The Contractor shall construct individual, sealed RAP stockpiles meeting one of the following definitions. Additional processed RAP (FRAP) shall be stockpiled in a separate working pile, as designated in the QC Plan, and only added to the sealed stockpile when test results for the working pile are complete and are found to meet tolerances specified herein for the original sealed FRAP stockpile. Stockpiles shall be sufficiently separated to prevent intermingling at the base. All stockpiles (including

unprocessed RAP and FRAP) shall be identified by signs indicating the type as listed below (i.e. "Non- Quality, FRAP -#4 or Type 2 RAS", etc...).

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

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

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

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

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

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

(a) FRAP Testing. When used in HMA, the FRAP shall be sampled and tested either during processing or after stockpiling. It shall also be sampled during HMA production.

(1) During Stockpiling. For testing during stockpiling, washed extraction samples shall be run at the minimum frequency of one sample per 500 tons (450 metric tons) for the first 2000 tons (1800 metric tons) and one sample per 2000 tons (1800 metric tons) thereafter. A minimum of five tests shall be required for stockpiles less than 4000 tons (3600 metric tons).

(2) Incoming Material. For testing as incoming material, washed extraction samples shall be run at a minimum frequency of one sample per 2000 tons (1800 metric tons) or once per week, whichever comes first.

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

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

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

- (1) During Stockpiling. Washed extraction and testing for unacceptable materials shall be run at the minimum frequency of one sample per 200 tons (180 metric tons) for the first 1000 tons (900 metric tons) and one sample per 1000 tons (900 metric tons) thereafter. A minimum of five samples are required for stockpiles less than 1000 tons (900 metric tons). Once a ≤ 1000 ton (900 metric ton), five-sample/test stockpile has been established it shall be sealed. Additional incoming RAS shall be in a separate working pile as designated in the Quality Control plan and only added to the sealed stockpile when the test results of the working pile are complete and are found to meet the tolerances specified herein for the original sealed RAS stockpile.
- (2) Incoming Material. For testing as incoming material at the HMA plant, washed extraction shall be run at the minimum frequency of one sample per 250 tons (227 metric tons). A minimum of five samples are required for stockpiles less than 1000 tons (900 metric tons). The incoming material test results shall meet the tolerances specified herein.

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

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

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

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

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

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

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

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

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

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

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

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

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

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

The Engineer will notify the Contractor of observed deficiencies.

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

Test Parameter	Acceptable Limits of Precision	
	FRAP	RAS
% Passing: ^{1/}		
1 / 2 in.	5.0%	
No. 4	5.0%	
No. 8	3.0%	4.0%
No. 30	2.0%	3.0%
No. 200	2.2%	2.5%
Asphalt Binder Content	0.3%	1.0%
G _{mm}	0.030	

1/ Based on washed extraction.

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

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

1031.05 Quality Designation of Aggregate in RAP and FRAP.

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

- (b) FRAP. If the Engineer has documentation of the quality of the FRAP aggregate, the Contractor shall use the assigned quality provided by the Engineer.

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

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

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

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

- (b) RAS. RAS meeting Type 1 or Type 2 requirements will be permitted in all HMA applications as specified herein.
- (c) FRAP and/or RAS Usage Limits. Type 1 or Type 2 RAS may be used alone or in conjunction with FRAP in HMA mixtures up to a maximum of 5.0% by weight of the total mix.

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

Max Asphalt Binder Replacement for FRAP with RAS Combination

HMA Mixtures ^{1/2/}	Maximum % ABR		
	Binder/Leveling Binder	Surface	Polymer Modified ^{3/}
30L	50	40	10
50	40	35	10
70	40	30	10
90	40	30	10 ^{4/}
4.75 mm N-50			30
SMA N-80			20

- 1/ For HMA "All Other" (shoulder and stabilized subbase) N-30, the percent asphalt binder replacement shall not exceed 50% of the total asphalt binder in the mixture.
- 2/ When the binder replacement exceeds 15 percent for all mixes, except for SMA and IL-4.75, the high and low virgin asphalt binder grades shall each be reduced by one grade (i.e. 25 percent binder replacement using a virgin asphalt binder grade of PG64-22 will be reduced to a PG58-28). When constructing full depth HMA and the ABR is less than 15 percent, the required virgin asphalt binder grade shall be PG64-28.
- 3/ When the ABR for SMA or IL-4.75 is 15 percent or less, the required virgin asphalt binder shall be SBS PG76-22 and the elastic recovery shall be a minimum of 80. When the ABR for SMA or IL-4.75 exceeds 15%, the virgin asphalt binder grade shall be SBS PG70-28 and the elastic recovery shall be a minimum of 80.
- 4/ For polymerized surface mix used for overlays, with up to 10 percent ABR, an SBS PG70-22 will be required. However if used in full depth HMA, an SBS PG70-28 will be required.

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

- (a) FRAP and/or RAS. FRAP and /or RAS mix designs shall be submitted for verification. If additional FRAP or RAS stockpiles are tested and found to be within tolerance, as defined under "Evaluation of Tests" herein, and meet all requirements herein, the additional FRAP or RAS stockpiles may be used in the original design at the percent previously verified.
- (b) RAS. Type 1 and Type 2 RAS are not interchangeable in a mix design. A RAS stone bulk specific gravity (Gsb) of 2.300 shall be used for mix design purposes.

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

To remove or reduce agglomerated material, a scalping screen, gator, crushing unit, or comparable sizing device approved by the Engineer shall be used in the RAS and FRAP feed system to remove or reduce oversized material. If material passing the sizing device adversely affects the mix production or quality of the mix, the sizing device shall be set at a size specified by the Engineer.

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

- (a) RAS. RAS shall be incorporated into the HMA mixture either by a separate weight depletion system or by using the RAP weigh belt. Either feed system shall be interlocked with the aggregate feed or weigh system to maintain correct proportions for all rates of production and batch sizes. The portion of RAS shall be controlled accurately to within ± 0.5 percent of the amount of RAS utilized. When using the weight depletion system, flow indicators or sensing devices shall be provided and interlocked with the plant controls such that the mixture production is halted when RAS flow is interrupted.
- (b) HMA Plant Requirements. HMA plants utilizing FRAP and/or RAS shall be capable of automatically recording and printing the following information.
 - (1) Dryer Drum Plants.
 - a. Date, month, year, and time to the nearest minute for each print.
 - b. HMA mix number assigned by the Department.
 - c. Accumulated weight of dry aggregate (combined or individual) in tons (metric tons) to the nearest 0.1 ton (0.1 metric ton).

- d. Accumulated dry weight of RAS and FRAP in tons (metric tons) to the nearest 0.1 ton (0.1 metric ton).
 - e. Accumulated mineral filler in revolutions, tons (metric tons), etc. to the nearest 0.1 unit.
 - f. Accumulated asphalt binder in gallons (liters), tons (metric tons), etc. to the nearest 0.1 unit.
 - g. Residual asphalt binder in the RAS and FRAP material as a percent of the total mix to the nearest 0.1 percent.
 - h. Aggregate RAS and FRAP moisture compensators in percent as set on the control panel. (Required when accumulated or individual aggregate and RAS and FRAP are printed in wet condition.)
 - i. When producing mixtures with FRAP and/or RAS, a positive dust control system shall be utilized.
 - j. Accumulated mixture tonnage.
 - k. Dust Removed (accumulated to the nearest 0.1 ton)
- (2) Batch Plants.
- a. Date, month, year, and time to the nearest minute for each print.
 - b. HMA mix number assigned by the Department.
 - c. Individual virgin aggregate hot bin batch weights to the nearest pound (kilogram).
 - d. Mineral filler weight to the nearest pound (kilogram).
 - e. RAS and FRAP weight to the nearest pound (kilogram).
 - f. Virgin asphalt binder weight to the nearest pound (kilogram).
 - g. Residual asphalt binder in the RAS and FRAP material as a percent of the total mix to the nearest 0.1 percent.

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

1031.09 RAP in Aggregate Surface Course and Aggregate Shoulders. The use of

RAP or FRAP in aggregate surface course and aggregate shoulders shall be as follows.

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

GROUND TIRE RUBBER (GTR) MODIFIED ASPHALT BINDER (D-1)

Effective: June 26, 2006

Revised: January 1, 2013

Add the following to the end of article 1032.05 of the Standard Specifications:

“(c) Ground Tire Rubber (GTR) Modified Asphalt Binder. A quantity of 10.0 to 14.0 percent GTR (Note 1) shall be blended by dry unit weight with a PG 64-28 to make a GTR 70-28 or a PG 58-28 to make a GTR 64-28. The base PG 64-28 and PG 58-28 asphalt binders shall meet the requirements of Article 1032.05(a). Compatible polymers may be added during production. The GTR modified asphalt binder shall meet the requirements of the following table.

Test	Asphalt Grade GTR 70-28	Asphalt Grade GTR 64-28
Flash Point (C.O.C.), AASHTO T 48, °F (°C), min.	450 (232)	450 (232)
Rotational Viscosity, AASHTO T 316 @ 275 °F (135 °C), Poises, Pa-s, max.	30 (3)	30 (3)
Softening Point, AASHTO T 53, °F (°C), min.	135 (57)	130 (54)
Elastic Recovery, ASTM D 6084, Procedure A (sieve waived) @ 77 °F, (25 °C), aged, ss, 100 mm elongation, 5 cm/min., cut immediately, %, min.	65	65

Note 1. GTR shall be produced from processing automobile and/or light truck tires by the ambient grinding method. GTR shall not exceed 1/16 in. (2 mm) in any dimension and shall contain no free metal particles or other materials. A mineral powder (such as talc) meeting the requirements of AASHTO M 17 may be added, up to a maximum of four percent by weight of GTR to reduce sticking and caking of the GTR particles. When tested in accordance with Illinois modified AASHTO T 27, a 50 g sample of the GTR shall conform to the following gradation requirements:

Sieve Size	Percent Passing
No. 16 (1.18 mm)	100
No. 30 (600 µm)	95 ± 5
No. 50 (300 µm)	> 20

Add the following to the end of Note 1. of article 1030.03 of the Standard Specifications:

“A dedicated storage tank for the Ground Tire Rubber (GTR) modified asphalt binder shall be provided. This tank must be capable of providing continuous mechanical mixing throughout by continuous agitation and recirculation of the asphalt binder to provide a

uniform mixture. The tank shall be heated and capable of maintaining the temperature of the asphalt binder at 300 °F to 350 °F (149 °C to 177 °C). The asphalt binder metering systems of dryer drum plants shall be calibrated with the actual GTR modified asphalt binder material with an accuracy of ± 0.40 percent.”

Revise 1030.02(c) of the Standard Specifications to read:

“(c) RAP Materials (Note 3)1031”

Add the following note to 1030.02 of the Standard Specifications:

Note 3. When using reclaimed asphalt pavement and/or reclaimed asphalt shingles, the maximum asphalt binder replacement percentage shall be according to the most recent special provision for recycled materials.

HOT MIX ASPHALT - QUANTITY CORRECTION (BMPR)

Effective: October 1, 2014

Revised: October 2, 2014

Revise the fifth paragraph of Article 406.13(b) of the Standard Specifications to read as follows:

“HMA and Stone Matrix Asphalt (SMA) mixture in excess of 103 percent of the quantity shown on the plans or the plan quantity as specified by the Engineer will not be measured for payment. The “adjusted quantity to be placed” and the “adjusted pay quantity” for HMA and SMA mixtures will be calculated as follows.

Adjusted Quantity To Be Placed = C x quantity shown on the plans or the plan quantity as specified by the Engineer

where: C = English: $C = \frac{G_{mb} \times 46.8}{U}$ Metric: $C = \frac{G_{mb} \times 24.99}{U}$

and where: G_{mb} = average bulk specific gravity from approved mix design
 U = unit weight of HMA shown on the plans in lb/sq yd/in.
 (kg/sq m/25 mm), used to estimate plan quantity
 46.8 = English constant
 24.99 = metric constant

Adjusted Pay Quantity (not to exceed 103 percent of the quantity shown on the plans or the plan quantity as specified by the Engineer) = B x HMA tons actually placed

where: $B = \frac{1}{C}$

If project circumstances warrant a new mix design, the above equations shall be used to calculate the adjusted plan quantity and adjusted pay quantity for each mix design using its respective average bulk specific gravity.”

BDE SPECIAL PROVISIONS
For the April 24 and June 12, 2015 Lettings

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

File Name	#	Special Provision Title	Effective	Revised
80240	1	Above Grade Inlet Protection	July 1, 2009	Jan. 1, 2012
80099	2	Accessible Pedestrian Signals (APS)	April 1, 2003	Jan. 1, 2014
80274	3	Aggregate Subgrade Improvement	April 1, 2012	Jan. 1, 2013
80192	4	Automated Flagger Assistance Device	Jan. 1, 2008	
80173	5	Bituminous Materials Cost Adjustments	Nov. 2, 2006	Aug. 1, 2013
80241	6	Bridge Demolition Debris	July 1, 2009	
50261	7	Building Removal-Case I (Non-Friable and Friable Asbestos)	Sept. 1, 1990	April 1, 2010
50481	8	Building Removal-Case II (Non-Friable Asbestos)	Sept. 1, 1990	April 1, 2010
50491	9	Building Removal-Case III (Friable Asbestos)	Sept. 1, 1990	April 1, 2010
50531	10	Building Removal-Case IV (No Asbestos)	Sept. 1, 1990	April 1, 2010
80310	11	Coated Galvanized Steel Conduit	Jan. 1, 2013	Jan. 1, 2015
80341	12	Coilable Nonmetallic Conduit	Aug. 1, 2014	Jan. 1, 2015
80198	13	Completion Date (via calendar days)	April 1, 2008	
80199	14	Completion Date (via calendar days) Plus Working Days	April 1, 2008	
* 80293	15	Concrete Box Culverts with Skews > 30 Degrees and Design Fills ≤ 5 Feet	April 1, 2012	April 1, 2015
80294	16	Concrete Box Culverts with Skews ≤ 30 Degrees Regardless of Design Fill and Skews > 30 Degrees with Design Fills > 5 Feet	April 1, 2012	April 1, 2014
80311	17	Concrete End Sections for Pipe Culverts	Jan. 1, 2013	
80334	18	Concrete Gutter, Curb, Median, and Paved Ditch	April 1, 2014	Aug. 1, 2014
80277	19	Concrete Mix Design – Department Provided	Jan. 1, 2012	Jan. 1, 2014
80261	20	Construction Air Quality – Diesel Retrofit	June 1, 2010	Nov. 1, 2014
80335	21	Contract Claims	April 1, 2014	
* 80029	22	Disadvantaged Business Enterprise Participation	Sept. 1, 2000	Jan. 2, 2015
* 80358	23	Equal Employment Opportunity	April 1, 2015	
80265	24	Friction Aggregate	Jan. 1, 2011	Nov. 1, 2014
80229	25	Fuel Cost Adjustment	April 1, 2009	July 1, 2009
80329	26	Glare Screen	Jan. 1, 2014	
80304	27	Grooving for Recessed Pavement Markings	Nov. 1, 2012	Aug. 1, 2014
80246	28	Hot-Mix Asphalt – Density Testing of Longitudinal Joints	Jan. 1, 2010	April 1, 2012
80322	29	Hot-Mix Asphalt – Mixture Design Composition and Volumetric Requirements	Nov. 1, 2013	Nov. 1, 2014
80323	30	Hot-Mix Asphalt – Mixture Design Verification and Production	Nov. 1, 2013	Nov. 1, 2014
* 80347	31	Hot-Mix Asphalt – Pay for Performance Using Percent Within Limits – Jobsite Sampling	Nov. 1, 2014	April 1, 2015
80348	32	Hot-Mix Asphalt – Prime Coat	Nov. 1, 2014	
80315	33	Insertion Lining of Culverts	Jan. 1, 2013	Nov. 1, 2013
80351	34	Light Tower	Jan. 1, 2015	
80336	35	Longitudinal Joint and Crack Patching	April 1, 2014	
* 80324	36	LRFD Pipe Culvert Burial Tables	Nov. 1, 2013	April 1, 2015
* 80325	37	LRFD Storm Sewer Burial Tables	Nov. 1, 2013	April 1, 2015
80045	38	Material Transfer Device	June 15, 1999	Aug. 1, 2014
80342	39	Mechanical Side Tie Bar Inserter	Aug. 1, 2014	Jan. 1, 2015
80165	40	Moisture Cured Urethane Paint System	Nov. 1, 2006	Jan. 1, 2010
80337	41	Paved Shoulder Removal	April 1, 2014	
80349	42	Pavement Marking Blackout Tape	Nov. 1, 2014	
80298	43	Pavement Marking Tape Type IV	April 1, 2012	

<u>File Name</u>	<u>#</u>		<u>Special Provision Title</u>	<u>Effective</u>	<u>Revised</u>
80254	44	<input checked="" type="checkbox"/>	Pavement Patching	Jan. 1, 2010	
80352	45	<input type="checkbox"/>	Pavement Striping - Symbols	Jan. 1, 2015	
* 80359	46	<input type="checkbox"/>	Portland Cement Concrete Bridge Deck Curing	April 1, 2015	
* 80353	47	<input type="checkbox"/>	Portland Cement Concrete Inlay or Overlay	Jan. 1, 2015	April 1, 2015
80338	48	<input type="checkbox"/>	Portland Cement Concrete Partial Depth Hot-Mix Asphalt Patching	April 1, 2014	
80343	49	<input type="checkbox"/>	Precast Concrete Handhole	Aug. 1, 2014	
80300	50	<input type="checkbox"/>	Preformed Plastic Pavement Marking Type D - Inlaid	April 1, 2012	
80328	51	<input type="checkbox"/>	Progress Payments	Nov. 2, 2013	
34261	52	<input type="checkbox"/>	Railroad Protective Liability Insurance	Dec. 1, 1986	Jan. 1, 2006
80157	53	<input type="checkbox"/>	Railroad Protective Liability Insurance (5 and 10)	Jan. 1, 2006	
80306	54	<input type="checkbox"/>	Reclaimed Asphalt Pavement (RAP) and Reclaimed Asphalt Shingles (RAS)	Nov. 1, 2012	April 1, 2014
80350	55	<input type="checkbox"/>	Retroreflective Sheeting for Highway Signs	Nov. 1, 2014	
80327	56	<input type="checkbox"/>	Reinforcement Bars	Nov. 1, 2013	
80344	57	<input type="checkbox"/>	Rigid Metal Conduit	Aug. 1, 2014	
* 80354	58	<input checked="" type="checkbox"/>	Sidewalk, Corner, or Crosswalk Closure	Jan. 1, 2015	April 1, 2015
80340	59	<input type="checkbox"/>	Speed Display Trailer	April 2, 2014	
80127	60	<input type="checkbox"/>	Steel Cost Adjustment	April 2, 2004	April 1, 2009
80317	61	<input type="checkbox"/>	Surface Testing of Hot-Mix Asphalt Overlays	Jan. 1, 2013	
80355	62	<input type="checkbox"/>	Temporary Concrete Barrier	Jan. 1, 2015	
80301	63	<input type="checkbox"/>	Tracking the Use of Pesticides	Aug. 1, 2012	
80356	64	<input type="checkbox"/>	Traffic Barrier Terminals Type 6 or 6B	Jan. 1, 2015	
20338	65	<input type="checkbox"/>	Training Special Provisions	Oct. 15, 1975	
80318	66	<input type="checkbox"/>	Traversable Pipe Grate	Jan. 1, 2013	April 1, 2014
* 80345	67	<input type="checkbox"/>	Underpass Luminaire	Aug. 1, 2014	April 1, 2015
80357	68	<input type="checkbox"/>	Urban Half Road Closure with Mountable Median	Jan. 1, 2015	
* 80346	69	<input type="checkbox"/>	Waterway Obstruction Warning Luminaire	Aug. 1, 2014	April 1, 2015
80288	70	<input checked="" type="checkbox"/>	Warm Mix Asphalt	Jan. 1, 2012	Nov. 1, 2014
80302	71	<input type="checkbox"/>	Weekly DBE Trucking Reports	June 2, 2012	
80289	72	<input type="checkbox"/>	Wet Reflective Thermoplastic Pavement Marking	Jan. 1, 2012	
80071	73	<input type="checkbox"/>	Working Days	Jan. 1, 2002	

The following special provisions are in the 2015 Supplemental Specifications and Recurring Special Provisions:

<u>File Name</u>	<u>Special Provision Title</u>	<u>New Location</u>	<u>Effective</u>	<u>Revised</u>
80292	Coarse Aggregate in Bridge Approach Slabs/Footings	Articles 1004.01(b) and 1004.02(f)	April 1, 2012	April 1, 2013
80303	Granular Materials	Articles 1003.04, 1003.04(c), and 1004.05(c)	Nov. 1, 2012	
80330	Pavement Marking for Bike Symbol	Article 780.14	Jan. 1, 2014	
80331	Payrolls and Payroll Records	Recurring CS #1 and #5	Jan. 1, 2014	
80332	Portland Cement Concrete – Curing of Abutments and Piers	Article 1020.13	Jan. 1, 2014	
80326	Portland Cement Concrete Equipment	Article 1103.03(a)(5)	Nov. 1, 2013	
80281	Quality Control/Quality Assurance of Concrete Mixtures	Recurring CS #31	Jan. 1, 2012	Jan. 1, 2014
80283	Removal and Disposal of Regulated Substances	Articles 669.01, 669.08, 669.09, 669.14, and 669.16	Jan. 1, 2012	Nov. 2, 2012
80319	Removal and Disposal of Surplus Materials	Article 202.03	Nov. 2, 2012	
80307	Seeding	Article 250.07	Nov. 1, 2012	
80339	Stabilized Subbase	Article 312.06	April 1, 2014	
80333	Traffic Control Setup and Removal Freeway/Expressway	Articles 701.18(l) and 701.19(a)	Jan. 1, 2014	

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

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

CONCRETE GUTTER, CURB, MEDIAN, AND PAVED DITCH (BDE)

Effective: April 1, 2014

Revised: August 1, 2014

Add the following to Article 606.02 of the Standard Specifications:

“(i) Polyurethane Joint Sealant 1050.04”

Revise the fifth paragraph of Article 606.07 of the Standard Specifications to read:

“Transverse contraction and longitudinal construction joints shall be sealed according to Article 420.12, except transverse joints in concrete curb and gutter shall be sealed with polysulfide or polyurethane joint sealant.”

Add the following to Section 1050 of the Standard Specifications:

“**1050.04 Polyurethane Joint Sealant.** The joint sealant shall be a polyurethane sealant, Type S, Grade NS, Class 25 or better, Use T (T₁ or T₂), according to ASTM C 920.”

80334

FRICITION AGGREGATE (BDE)

Effective: January 1, 2011

Revised: November 1, 2014

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

- “(4) Crushed Stone. Crushed stone shall be the angular fragments resulting from crushing undisturbed, consolidated deposits of rock by mechanical means. Crushed stone shall be divided into the following, when specified.
- a. Carbonate Crushed Stone. Carbonate crushed stone shall be either dolomite or limestone. Dolomite shall contain 11.0 percent or more magnesium oxide (MgO). Limestone shall contain less than 11.0 percent magnesium oxide (MgO).
 - b. Crystalline Crushed Stone. Crystalline crushed stone shall be either metamorphic or igneous stone, including but is not limited to, quartzite, granite, rhyolite and diabase.”

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

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

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

Use	Mixture	Aggregates Allowed
Class A	Seal or Cover	<u>Allowed Alone or in Combination</u> ^{5f} : Gravel Crushed Gravel Carbonate Crushed Stone Crystalline Crushed Stone Crushed Sandstone Crushed Slag (ACBF) Crushed Steel Slag Crushed Concrete

Use	Mixture	Aggregates Allowed	
HMA Low ESAL	Stabilized Subbase or Shoulders	<u>Allowed Alone or in Combination</u> ^{5/} : Gravel Crushed Gravel Carbonate Crushed Stone Crystalline Crushed Stone Crushed Sandstone Crushed Slag (ACBF) Crushed Steel Slag ^{1/} Crushed Concrete	
HMA High ESAL Low ESAL	Binder IL-19.0 or IL-19.0L SMA Binder	<u>Allowed Alone or in Combination</u> ^{5/} : Crushed Gravel Carbonate Crushed Stone ^{2/} Crystalline Crushed Stone Crushed Sandstone Crushed Slag (ACBF) Crushed Concrete ^{3/}	
HMA High ESAL Low ESAL	C Surface and Leveling Binder IL-9.5 or IL-9.5L SMA Ndesign 50 Surface	<u>Allowed Alone or in Combination</u> ^{5/} : Crushed Gravel Carbonate Crushed Stone ^{2/} Crystalline Crushed Stone Crushed Sandstone Crushed Slag (ACBF) Crushed Steel Slag ^{4/} Crushed Concrete ^{3/}	
HMA High ESAL	D Surface and Leveling Binder IL-9.5 SMA Ndesign 50 Surface	<u>Allowed Alone or in Combination</u> ^{5/} : Crushed Gravel Carbonate Crushed Stone (other than Limestone) ^{2/} Crystalline Crushed Stone Crushed Sandstone Crushed Slag (ACBF) Crushed Steel Slag ^{4/} Crushed Concrete ^{3/}	
		<u>Other Combinations Allowed:</u>	
		<i>Up to...</i>	<i>With...</i>
		25% Limestone	Dolomite

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

Use	Mixture	Aggregates Allowed	
		<i>Up to...</i>	<i>With...</i>
		50% Crushed Gravel, Crushed Concrete ^{3/} , or Dolomite ^{2/}	Crushed Sandstone, Crushed Slag (ACBF), Crushed Steel Slag, or Crystalline Crushed Stone

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

80265

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	N _{design} = 50	93.0 – 97.4%	91.0%
IL-9.5, IL-12.5	N _{design} ≥ 90	92.0 – 96.0%	90.0%
IL-9.5, IL-9.5L, IL-12.5	N _{design} < 90	92.5 – 97.4%	90.0%
IL-19.0, IL-25.0	N _{design} ≥ 90	93.0 – 96.0%	90.0%
IL-19.0, IL-19.0L, IL-25.0	N _{design} < 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 – PRIME COAT (BDE)

Effective: November 1, 2014

Revise Note 1 of Article 406.02 of the Standard Specifications to read:

“Note 1. The bituminous material used for prime coat shall be one of the types listed in the following table.

When emulsified asphalts are used, any dilution with water shall be performed by the emulsion producer. The emulsified asphalt shall be thoroughly agitated within 24 hours of application and show no separation of water and emulsion.

Application	Bituminous Material Types
Prime Coat on Brick, Concrete, or HMA Bases	SS-1, SS-1h, SS-1hP, SS-1vh, RS-1, RS-2, CSS-1, CSS-1h, CSS-1hp, CRS-1, CRS-2, HFE-90, RC-70
Prime Coat on Aggregate Bases	MC-30, PEP”

Add the following to Article 406.03 of the Standard Specifications.

- “(i) Vacuum Sweeper 1101.19
- “(j) Spray Paver 1102.06”

Revise Article 406.05(b) of the Standard Specifications to read:

“(b) Prime Coat. The bituminous material shall be prepared according to Article 403.05 and applied according to Article 403.10. The use of RC-70 shall be limited to air temperatures less than 60 °F (15 °C).

- (1) Brick, Concrete or HMA Bases. The base shall be cleaned of all dust, debris and any substance that will prevent the prime coat from adhering to the base. Cleaning shall be accomplished by sweeping to remove all large particles and air blasting to remove dust. As an alternative to air blasting, a vacuum sweeper may be used to accomplish the dust removal. The base shall be free of standing water at the time of application. The prime coat shall be applied uniformly and at a rate that will provide a residual asphalt rate on the prepared surface as specified in the following table.

Type of Surface to be Primed	Residual Asphalt Rate lb/sq ft (kg/sq m)
Milled HMA, Aged Non-Milled HMA, Milled Concrete, Non-Milled Concrete & Tined Concrete	0.05 (0.244)
Fog Coat between HMA Lifts, IL-4.75 & Brick	0.025 (0.122)

The bituminous material for the prime coat shall be placed one lane at a time. If a spray paver is not used, the primed lane shall remain closed until the prime coat is

fully cured and does not pickup under traffic. When placing prime coat through an intersection where it is not possible to keep the lane closed, the prime coat may be covered immediately following its application with fine aggregate mechanically spread at a uniform rate of 2 to 4 lb/sq yd (1 to 2 kg/sq m).

- (2) Aggregate Bases. The prime coat shall be applied uniformly and at a rate that will provide a residual asphalt rate on the prepared surface of 0.25 lb/sq ft \pm 0.01 (1.21 kg/sq m \pm 0.05).

The prime coat shall be permitted to cure until the penetration has been approved by the Engineer, but at no time shall the curing period be less than 24 hours for MC-30 or four hours for PEP. Pools of prime occurring in the depressions shall be broomed or squeegeed over the surrounding surface the same day the prime coat is applied.

The base shall be primed 1/2 width at a time. The prime coat on the second half/width shall not be applied until the prime coat on the first half/width has cured so that it will not pickup under traffic.

The residual asphalt rate will be verified a minimum of once per type of surface to be primed as specified herein for which at least 2000 tons (1800 metric tons) of HMA will be placed. The test will be according to the "Determination of Residual Asphalt in Prime and Tack Coat Materials" test procedure.

Prime coat shall be fully cured prior to placement of HMA to prevent pickup by haul trucks or paving equipment. If pickup occurs, paving shall cease in order to provide additional cure time, and all areas where the pickup occurred shall be repaired.

If after five days, loss of prime coat is evident prior to covering with HMA, additional prime coat shall be placed as determined by the Engineer at no additional cost to the Department."

Revise the last sentence of the first paragraph of Article 406.13(b) of the Standard Specifications to read:

"Water added to emulsified asphalt, as allowed in Article 406.02, will not be included in the quantities measured for payment."

Revise the second paragraph of Article 406.13(b) of the Standard Specifications to read:

"Aggregate for covering prime coat will not be measured for payment."

Revise the first paragraph of Article 406.14 of the Standard Specifications to read:

406.14 Basis of Payment. Prime Coat will be paid for at the contract unit price per pound (kilogram) of residual asphalt applied for BITUMINOUS MATERIALS (PRIME COAT), or POLYMERIZED BITUMINOUS MATERIALS (PRIME COAT)."

Revise Article 407.02 of the Standard Specifications to read:

“407.02 Materials. Materials shall be according to Article 406.02, except as follows.”

Item	Article/Section
(a) Packaged Rapid Hardening Mortar or Concrete	1018”

Revise Article 407.06(b) of the Standard Specifications to read:

“(b) A bituminous prime coat shall be applied between each lift of HMA according to Article 406.05(b).”

Delete the second paragraph of Article 407.12 of the Standard Specifications.

Revise the first paragraph of Article 408.04 of the Standard Specifications to read:

“408.04 Method of Measurement. Bituminous priming material will be measured for payment according to Article 406.13.”

Revise the first paragraph of Article 408.05 of the Standard Specifications to read:

“408.05 Basis of Payment. This work will be paid for at the contract unit price per pound (kilogram) of residual asphalt applied for BITUMINOUS MATERIALS (PRIME COAT) or POLYMERIZED BITUMINOUS MATERIALS (PRIME COAT) and at the contract unit price per ton (metric ton) for INCIDENTAL HOT-MIX ASPHALT SURFACING.”

Revise Article 1032.02 of the Standard Specifications to read:

“1032.02 Measurement. Asphalt binders, emulsified asphalts, rapid curing liquid asphalt, medium curing liquid asphalts, slow curing liquid asphalts, asphalt fillers, and road oils will be measured by weight.

A weight ticket for each truck load shall be furnished to the inspector. The truck shall be weighed at a location approved by the Engineer. The ticket shall show the weight of the empty truck (the truck being weighed each time before it is loaded), the weight of the loaded truck, and the net weight of the bituminous material.

When an emulsion or cutback is used for prime coat, the percentage of asphalt residue of the actual certified product shall be shown on the producer’s bill of lading or attached certificate of analysis. If the producer adds extra water to an emulsion at the request of the purchaser, the amount of water shall also be shown on the bill of lading.

Payment will not be made for bituminous materials in excess of 105 percent of the amount specified by the Engineer.”

Add the following to the table in Article 1032.04 of the Standard Specifications.

"SS-1vh	160-180	70-80
RS-1, CRS-1	75-130	25-55"

Add the following to Article 1032.06 of the Standard Specifications.

"(g) Non Tracking Emulsified Asphalt SS-1vh shall be according to the following.

Requirements for SS-1vh			
Test		SPEC	AASHTO Test Method
Saybolt Viscosity @ 25C,	SFS	20-200	T 72
Storage Stability, 24hr.,	%	1 max.	T 59
Residue by Evaporation,	%	50 min.	T 59
Sieve Test,	%	0.3 max.	T 59
Tests on Residue from Evaporation			
Penetration @25°C, 100g., 5 sec., dmm		20 max.	T 49
Softening Point,	°C	65 min.	T 53
Solubility,	%	97.5 min.	T 44
Orig. DSR @ 82°C,	kPa	1.00 min.	T 315"

Revise the last table in Article 1032.06(f)(2)d. of the Standard Specifications to read:

"Grade	Use
SS-1, SS-1h, RS-1, RS-2, CSS-1, CRS-1, CRS-2, CSS-1h, HFE-90, SS-1hP, CSS-1hP, SS-1vh	Prime or fog seal
PEP	Bituminous surface treatment prime
RS-2, HFE-90, HFE-150, HFE- 300, CRSP, HFP, CRS-2, HFRS-2	Bituminous surface treatment
CSS-1h Latex Modified	Microsurfacing"

Add the following to Article 1101 of the Standard Specifications.

"1101.19 Vacuum Sweeper. The vacuum sweeper shall have a minimum sweeping path of 52 in. (1.3 m) and a minimum blower rating of 20,000 cu ft per minute (566 cu m per minute)."

Add the following to Article 1102 of the Standard Specifications:

"1102.06 Spray Paver. The spreading and finishing machine shall be capable of spraying a rapid setting emulsion tack coat, paving a layer of HMA, and providing a smooth HMA mat in one pass. The HMA shall be spread over the tack coat in less than five seconds after the

application of the tack coat during normal paving speeds. No wheel or other part of the paving machine shall come into contact with the tack coat before the HMA is applied. In addition to meeting the requirements of Article 1102.03, the spray paver shall also meet the requirements of Article 1102.05 for the tank, heating system, pump, thermometer, tachometer or synchronizer, and calibration. The spray bar shall be equipped with properly sized and spaced nozzles to apply a uniform application of tack coat at the specified rate for the full width of the mat being placed.”

80348

PAVEMENT PATCHING (BDE)

Effective: January 1, 2010

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

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

80254

SIDEWALK, CORNER, OR CROSSWALK CLOSURE (BDE)

Effective: January 1, 2015

Revised: April 1, 2015

Revise the first sentence of Article 1106.02(m) of the Supplemental Specifications to read:

“The top and bottom panels shall have alternating white and orange stripes sloping 45 degrees on both sides.”

80354

WARM MIX ASPHALT (BDE)

Effective: January 1, 2012

Revised: November 1, 2014

Description. This work shall consist of designing, producing and constructing Warm Mix Asphalt (WMA) in lieu of Hot Mix Asphalt (HMA) at the Contractor's option. Work shall be according to Sections 406, 407, 408, 1030, and 1102 of the Standard Specifications, except as modified herein. In addition, any references to HMA in the Standard Specifications, or the special provisions shall be construed to include WMA.

WMA is an asphalt mixture which can be produced at temperatures lower than allowed for HMA utilizing approved WMA technologies. WMA technologies are defined as the use of additives or processes which allow a reduction in the temperatures at which HMA mixes are produced and placed. WMA is produced by the use of additives, a water foaming process, or combination of both. Additives include minerals, chemicals or organics incorporated into the asphalt binder stream in a dedicated delivery system. The process of foaming injects water into the asphalt binder stream, just prior to incorporation of the asphalt binder with the aggregate.

Approved WMA technologies may also be used in HMA provided all the requirements specified herein, with the exception of temperature, are met. However, asphalt mixtures produced at temperatures in excess of 275 °F (135 °C) will not be considered WMA when determining the grade reduction of the virgin asphalt binder grade.

Equipment.

Revise the first paragraph of Article 1102.01 of the Standard Specifications to read:

“1102.01 Hot-Mix Asphalt Plant. The hot-mix asphalt (HMA) plant shall be the batch-type, continuous-type, or dryer drum plant. The plants shall be evaluated for prequalification rating and approval to produce HMA according to the current Bureau of Materials and Physical Research Policy Memorandum, “Approval of Hot-Mix Asphalt Plants and Equipment”. Once approved, the Contractor shall notify the Bureau of Materials and Physical Research to obtain approval of all plant modifications. The plants shall not be used to produce mixtures concurrently for more than one project or for private work unless permission is granted in writing by the Engineer. The plant units shall be so designed, coordinated and operated that they will function properly and produce HMA having uniform temperatures and compositions within the tolerances specified. The plant units shall meet the following requirements.”

Add the following to Article 1102.01(a) of the Standard Specifications.

“(13) Equipment for Warm Mix Technologies.

- a. Foaming. Metering equipment for foamed asphalt shall have an accuracy of ± 2 percent of the actual water metered. The foaming control system shall be electronically interfaced with the asphalt binder meter.

- b. Additives. Additives shall be introduced into the plant according to the supplier's recommendations and shall be approved by the Engineer. The system for introducing the WMA additive shall be interlocked with the aggregate feed or weigh system to maintain correct proportions for all rates of production and batch sizes."

Mix Design Verification.

Add the following to Article 1030.04 of the Standard Specifications.

"(e) Warm Mix Technologies.

- (1) Foaming. WMA mix design verification will not be required when foaming technology is used alone (without WMA additives). However, the foaming technology shall only be used on HMA designs previously approved by the Department.
- (2) Additives. WMA mix designs utilizing additives shall be submitted to the Engineer for mix design verification."

Construction Requirements.

Revise the second paragraph of Article 406.06(b)(1) of the Standard Specifications to read:

"The HMA shall be delivered at a temperature of 250 to 350 °F (120 to 175 °C).
WMA shall be delivered at a minimum temperature of 215 °F (102 °C)."

Basis of Payment.

This work will be paid at the contract unit price bid for the HMA pay items involved. Anti-strip will not be paid for separately, but shall be considered as included in the cost of the work.

80288

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

SPECIAL PROVISION
FOR
EQUIPMENT RENTAL RATES

Effective: January 1, 2012

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.

Replace Article 109.04(b)(4) with the following:

- "(4) Equipment. For any machinery or special equipment (other than small tools) the use of which has been authorized by the Engineer, the Contractor will be paid according to the latest revision of "SCHEDULE OF AVERAGE ANNUAL EQUIPMENT OWNERSHIP EXPENSE" and latest index factor as issued by the Illinois Department of Transportation. The equipment should be of a type and size reasonably required to complete the extra work."

Du Page County Prevailing Wage for April 2015

(See explanation of column headings at bottom of wages)

Trade Name	RG	TYP	C	Base	FRMAN	M-F>8	OSA	OSH	H/W	Pensn	Vac	Trng
ASBESTOS ABT-GEN		ALL		38.200	38.700	1.5	1.5	2.0	13.78	10.12	0.000	0.500
ASBESTOS ABT-MEC		BLD		35.100	37.600	1.5	1.5	2.0	11.17	10.76	0.000	0.720
BOILERMAKER		BLD		45.650	49.760	2.0	2.0	2.0	6.970	17.81	0.000	0.400
BRICK MASON		BLD		42.580	46.840	1.5	1.5	2.0	9.850	13.60	0.000	1.030
CARPENTER		ALL		43.350	45.350	1.5	1.5	2.0	13.29	13.75	0.000	0.630
CEMENT MASON		ALL		39.250	41.250	2.0	1.5	2.0	12.70	17.14	0.000	0.450
CERAMIC TILE FNSHER		BLD		35.810	0.000	1.5	1.5	2.0	10.55	8.440	0.000	0.710
COMMUNICATION TECH		BLD		32.650	34.750	1.5	1.5	2.0	9.550	15.16	1.250	0.610
ELECTRIC PWR EQMT OP		ALL		37.890	51.480	1.5	1.5	2.0	5.000	11.75	0.000	0.380
ELECTRIC PWR EQMT OP		HWY		39.220	53.290	1.5	1.5	2.0	5.000	12.17	0.000	0.390
ELECTRIC PWR GRNDMAN		ALL		29.300	51.480	1.5	1.5	2.0	5.000	9.090	0.000	0.290
ELECTRIC PWR GRNDMAN		HWY		30.330	53.290	1.5	1.5	2.0	5.000	9.400	0.000	0.300
ELECTRIC PWR LINEMAN		ALL		45.360	51.480	1.5	1.5	2.0	5.000	14.06	0.000	0.450
ELECTRIC PWR LINEMAN		HWY		46.950	53.290	1.5	1.5	2.0	5.000	14.56	0.000	0.470
ELECTRIC PWR TRK DRV		ALL		30.340	51.480	1.5	1.5	2.0	5.000	9.400	0.000	0.300
ELECTRIC PWR TRK DRV		HWY		31.400	53.290	1.5	1.5	2.0	5.000	9.730	0.000	0.310
ELECTRICIAN		BLD		38.160	41.980	1.5	1.5	2.0	9.550	18.29	4.680	0.680
ELEVATOR CONSTRUCTOR		BLD		50.800	57.150	2.0	2.0	2.0	13.57	14.21	4.060	0.600
FENCE ERECTOR	NE	ALL		35.840	37.840	1.5	1.5	2.0	13.01	11.51	0.000	0.300
FENCE ERECTOR	W	ALL		45.060	48.660	2.0	2.0	2.0	10.52	18.81	0.000	0.400
GLAZIER		BLD		40.000	41.500	1.5	2.0	2.0	12.49	15.99	0.000	0.940
HT/FROST INSULATOR		BLD		48.450	50.950	1.5	1.5	2.0	11.47	12.16	0.000	0.720
IRON WORKER	E	ALL		43.000	45.000	2.0	2.0	2.0	13.45	20.65	0.000	0.350
IRON WORKER	W	ALL		45.060	48.660	2.0	2.0	2.0	10.52	18.81	0.000	0.400
LABORER		ALL		38.000	38.750	1.5	1.5	2.0	13.78	10.12	0.000	0.500
LATHER		ALL		43.350	45.350	1.5	1.5	2.0	13.29	13.75	0.000	0.630
MACHINIST		BLD		44.350	46.850	1.5	1.5	2.0	6.760	8.950	1.850	0.000
MARBLE FINISHERS		ALL		31.400	32.970	1.5	1.5	2.0	9.850	13.10	0.000	0.600
MARBLE MASON		BLD		41.780	45.960	1.5	1.5	2.0	9.850	13.42	0.000	0.760
MATERIAL TESTER I		ALL		28.000	0.000	1.5	1.5	2.0	13.78	10.12	0.000	0.500
MATERIALS TESTER II		ALL		33.000	0.000	1.5	1.5	2.0	13.78	10.12	0.000	0.500
MILLWRIGHT		ALL		43.350	45.350	1.5	1.5	2.0	13.29	13.75	0.000	0.630
OPERATING ENGINEER		BLD	1	47.100	51.100	2.0	2.0	2.0	17.10	11.80	1.900	1.250
OPERATING ENGINEER		BLD	2	45.800	51.100	2.0	2.0	2.0	17.10	11.80	1.900	1.250
OPERATING ENGINEER		BLD	3	43.250	51.100	2.0	2.0	2.0	17.10	11.80	1.900	1.250
OPERATING ENGINEER		BLD	4	41.500	51.100	2.0	2.0	2.0	17.10	11.80	1.900	1.250
OPERATING ENGINEER		BLD	5	50.850	51.100	2.0	2.0	2.0	17.10	11.80	1.900	1.250
OPERATING ENGINEER		BLD	6	48.100	51.100	2.0	2.0	2.0	17.10	11.80	1.900	1.250
OPERATING ENGINEER		BLD	7	50.100	51.100	2.0	2.0	2.0	17.10	11.80	1.900	1.250
OPERATING ENGINEER		FLT		35.000	35.000	1.5	1.5	2.0	16.60	11.05	1.900	1.250
OPERATING ENGINEER		HWY	1	45.300	49.300	1.5	1.5	2.0	17.10	11.80	1.900	1.250
OPERATING ENGINEER		HWY	2	44.750	49.300	1.5	1.5	2.0	17.10	11.80	1.900	1.250
OPERATING ENGINEER		HWY	3	42.700	49.300	1.5	1.5	2.0	17.10	11.80	1.900	1.250
OPERATING ENGINEER		HWY	4	41.300	49.300	1.5	1.5	2.0	17.10	11.80	1.900	1.250
OPERATING ENGINEER		HWY	5	40.100	49.300	1.5	1.5	2.0	17.10	11.80	1.900	1.250
OPERATING ENGINEER		HWY	6	48.300	49.300	1.5	1.5	2.0	17.10	11.80	1.900	1.250
OPERATING ENGINEER		HWY	7	46.300	49.300	1.5	1.5	2.0	17.10	11.80	1.900	1.250
ORNAMNTL IRON WORKER E	E	ALL		43.900	46.400	2.0	2.0	2.0	13.36	17.24	0.000	0.650
ORNAMNTL IRON WORKER W	W	ALL		45.060	48.660	2.0	2.0	2.0	10.52	18.81	0.000	0.400
PAINTER		ALL		41.730	43.730	1.5	1.5	1.5	10.30	8.200	0.000	1.350
PAINTER SIGNS		BLD		33.920	38.090	1.5	1.5	1.5	2.600	2.710	0.000	0.000
PILEDRIVER		ALL		43.350	45.350	1.5	1.5	2.0	13.29	13.75	0.000	0.630
PIPEFITTER		BLD		46.000	49.000	1.5	1.5	2.0	9.000	15.85	0.000	1.780
PLASTERER		BLD		41.250	43.760	1.5	1.5	2.0	9.700	13.08	0.000	0.980

Du Page County Prevailing Wage for April 2015

PLUMBER	BLD	46.650	48.650	1.5	1.5	2.0	13.18	11.46	0.000	0.880
ROOFER	BLD	40.100	43.100	1.5	1.5	2.0	8.280	10.54	0.000	0.530
SHEETMETAL WORKER	BLD	44.000	46.000	1.5	1.5	2.0	10.65	13.06	0.000	0.820
SPRINKLER FITTER	BLD	49.200	51.200	1.5	1.5	2.0	11.75	9.650	0.000	0.550
STEEL ERECTOR	E ALL	42.070	44.070	2.0	2.0	2.0	13.45	19.59	0.000	0.350
STEEL ERECTOR	W ALL	45.060	48.660	2.0	2.0	2.0	10.52	18.81	0.000	0.400
STONE MASON	BLD	42.580	46.840	1.5	1.5	2.0	9.850	13.60	0.000	1.030
SURVEY WORKER -> NOT IN EFFECT	ALL	37.000	37.750	1.5	1.5	2.0	12.97	9.930	0.000	0.500
TERRAZZO FINISHER	BLD	37.040	0.000	1.5	1.5	2.0	10.55	10.32	0.000	0.620
TERRAZZO MASON	BLD	40.880	43.880	1.5	1.5	2.0	10.55	11.63	0.000	0.820
TILE MASON	BLD	42.840	46.840	1.5	1.5	2.0	10.55	10.42	0.000	0.920
TRAFFIC SAFETY WRKR	HWY	32.750	34.350	1.5	1.5	2.0	6.550	6.450	0.000	0.500
TRUCK DRIVER	ALL 1	32.550	33.100	1.5	1.5	2.0	6.500	4.350	0.000	0.150
TRUCK DRIVER	ALL 2	32.700	33.100	1.5	1.5	2.0	6.500	4.350	0.000	0.150
TRUCK DRIVER	ALL 3	32.900	33.100	1.5	1.5	2.0	6.500	4.350	0.000	0.150
TRUCK DRIVER	ALL 4	33.100	33.100	1.5	1.5	2.0	6.500	4.350	0.000	0.150
TUCKPOINTER	BLD	41.620	42.620	1.5	1.5	2.0	9.850	12.61	0.000	0.650

Legend: RG (Region)

TYP (Trade Type - All, Highway, Building, Floating, Oil & Chip, Rivers)

C (Class)

Base (Base Wage Rate)

FRMAN (Foreman Rate)

M-F>8 (OT required for any hour greater than 8 worked each day, Mon through Fri.)

OSA (Overtime (OT) is required for every hour worked on Saturday)

OSH (Overtime is required for every hour worked on Sunday and Holidays)

H/W (Health & Welfare Insurance)

Pensn (Pension)

Vac (Vacation)

Trng (Training)

Explanations**DUPAGE COUNTY**

IRON WORKERS AND FENCE ERECTOR (WEST) - West of Route 53.

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

EXPLANATION OF CLASSES

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

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

TRAFFIC SAFETY - work associated with barricades, horses and drums used to reduce lane usage on highway work, the installation and removal of temporary lane markings, and the installation and removal of temporary road signs.

CERAMIC TILE FINISHER

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

COMMUNICATIONS TECHNICIAN

Low voltage installation, maintenance and removal of telecommunication facilities (voice, sound, data and video) including telephone and data inside wire, interconnect, terminal equipment, central offices, PABX, fiber optic cable and equipment, micro waves, V-SAT, bypass, CATV, WAN (wide area networks), LAN (local area networks), and ISDN (integrated system digital network), pulling of wire in raceways, but not the installation of raceways.

MARBLE FINISHER

Loading and unloading trucks, distribution of all materials (all stone, sand, etc.), stocking of floors with material, performing all rigging for heavy work, the handling of all material that may be needed for the installation of such materials, building of scaffolding, polishing if needed, patching, waxing of material if damaged, pointing up, caulking, grouting and cleaning of marble, holding water on diamond or Carborundum blade or saw for setters cutting, use of tub saw or any other saw needed for preparation of material, drilling of holes for wires that anchor material set by setters, mixing up of molding plaster for installation of material, mixing up thin set for the installation of material, mixing up of sand to cement for the installation of material and such other work as may be required in helping a Marble Setter in the handling of all material in the erection or installation of interior marble, slate, travertine, art marble, serpentine, alberene stone, blue stone, granite and other stones (meaning as to stone any foreign or domestic materials as are specified and used in building interiors and exteriors and customarily known as stone in the trade), carrara, sanionyx, vitrolite and similar opaque glass and the laying of all marble tile, terrazzo tile, slate tile and precast tile, steps, risers treads, base, or any other materials that may be used as substitutes

for any of the aforementioned materials and which are used on interior and exterior which are installed in a similar manner.

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

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

OPERATING ENGINEER - BUILDING

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

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

Class 3. Air Compressor; Combination Small Equipment Operator; Generators; Heaters, Mechanical; Hoists, Inside Elevators (remodeling or renovation work); Hydraulic Power Units (Pile Driving, Extracting, and Drilling); Pumps, over 3" (1 to 3 not to exceed a total of 300 ft.); Low Boys; Pumps, Well Points; Welding Machines (2 through 5); Winches, 4 Small Electric Drill Winches.

Class 4. Bobcats and/or other Skid Steer Loaders; Oilers; and Brick Forklift.

Class 5. Assistant Craft Foreman.

Class 6. Gradall.

Class 7. Mechanics; Welders.

OPERATING ENGINEERS - HIGHWAY CONSTRUCTION

Class 1. Asphalt Plant; Asphalt Heater and Planer Combination; Asphalt Heater Scarfire; Asphalt Spreader; Autograder/GOMACO or other similar type machines: ABG Paver; Backhoes with Caisson Attachment; Ballast Regulator; Belt Loader; Caisson Rigs; Car Dumper; Central Redi-Mix Plant; Combination Backhoe Front Endloader Machine, (1 cu. yd. Backhoe Bucket or over or with attachments); Concrete Breaker (Truck Mounted); Concrete Conveyor; Concrete Paver over 27E cu. ft.; Concrete Placer; Concrete Tube Float; Cranes, all attachments; Cranes, Tower Cranes of all types: Creter Crane; Spider Crane; Crusher, Stone, etc.; Derricks, All; Derrick Boats; Derricks, Traveling; Dredges; Elevators, Outside type Rack & Pinion and Similar Machines; Formless Curb and Gutter Machine; Grader, Elevating; Grader, Motor Grader, Motor Patrol, Auto Patrol, Form Grader, Pull Grader, Subgrader; Guard Rail Post Driver Truck Mounted; Hoists, One, Two and Three Drum; Heavy Duty Self-Propelled Transporter or Prime Mover; Hydraulic Backhoes; Backhoes with shear attachments up to 40' of boom reach; Lubrication Technician; Manipulators; Mucking Machine; Pile Drivers and Skid Rig; Pre-Stress Machine; Pump Cretes Dual Ram; Rock Drill - Crawler or Skid Rig; Rock Drill - Truck Mounted; Rock/Track Tamper; Roto Mill Grinder; Slip-Form Paver; Snow Melters; Soil Test Drill Rig (Truck Mounted); Straddle Buggies; Hydraulic Telescoping Form (Tunnel); Operation of Tieback Machine; Tractor Drawn Belt Loader; Tractor Drawn Belt Loader (with attached pusher - two engineers); Tractor with Boom; Tractaire with Attachments; Traffic Barrier Transfer Machine; Trenching; Truck Mounted Concrete Pump with Boom; Raised or Blind Hole Drills (Tunnel Shaft); Underground Boring and/or Mining Machines 5 ft. in diameter and over tunnel, etc; Underground Boring and/or Mining Machines under 5 ft. in diameter; Wheel Excavator; Widener (APSCO).

Class 2. Batch Plant; Bituminous Mixer; Boiler and Throttle Valve; Bulldozers; Car Loader Trailing Conveyors; Combination Backhoe Front Endloader Machine (Less than 1 cu. yd. Backhoe Bucket or over or with attachments); Compressor and Throttle Valve; Compressor, Common Receiver (3); Concrete Breaker or Hydro Hammer; Concrete Grinding Machine; Concrete Mixer or Paver 7S Series to and including 27 cu. ft.; Concrete Spreader; Concrete Curing Machine, Burlap Machine, Belting Machine and Sealing Machine; Concrete Wheel Saw; Conveyor Muck Cars (Haglund or Similar Type); Drills, All; Finishing Machine - Concrete; Highlift Shovels or Front Endloader; Hoist - Sewer Dragging Machine; Hydraulic Boom Trucks (All Attachments); Hydro-Blaster; Hydro Excavating (excluding hose work); Laser Screed; All Locomotives, Dinky; Off-Road Hauling Units (including articulating) Non Self-Loading Ejection Dump; Pump Cretes: Squeeze Cretes - Screw Type Pumps, Gypsum Bulker and Pump; Roller, Asphalt; Rotary Snow Plows; Rototiller, Seaman, etc., self-propelled; Self-Propelled Compactor; Spreader - Chip - Stone, etc.; Scraper - Single/Twin Engine/Push and Pull; Scraper - Prime Mover in Tandem (Regardless of Size); Tractors pulling attachments, Sheeps Foot, Disc, Compactor, etc.; Tug Boats.

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

Class 4. Air Compressor; Combination - Small Equipment Operator; Directional Boring Machine; Generators; Heaters, Mechanical; Hydraulic Power Unit (Pile Driving, Extracting, or Drilling); Light Plants, All

(1 through 5); Pumps, over 3" (1 to 3 not to exceed a total of 300 ft.); Pumps, Well Points; Vacuum Trucks (excluding hose work); Welding Machines (2 through 5); Winches, 4 Small Electric Drill Winches.

Class 5. SkidSteer Loader (all); Brick Forklifts; Oilers.

Class 6. Field Mechanics and Field Welders

Class 7. Dowell Machine with Air Compressor; Gradall and machines of like nature.

SURVEY WORKER - Operated survey equipment including data collectors, G.P.S. and robotic instruments, as well as conventional levels and transits.

TRUCK DRIVER - BUILDING, HEAVY AND HIGHWAY CONSTRUCTION

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

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

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

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

TERRAZZO FINISHER

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

Other Classifications of Work:

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

LANDSCAPING

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

MATERIAL TESTER & MATERIAL TESTER/INSPECTOR I AND II

Notwithstanding the difference in the classification title, the classification entitled "Material Tester I" involves the same job duties as the classification entitled "Material Tester/Inspector I". Likewise, the classification entitled "Material Tester II" involves the same job duties as the classification entitled "Material Tester/Inspector II".

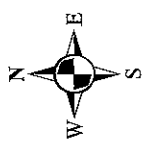
HOT-MIX ASPHALT MIXTURE REQUIREMENTS		
	MIXTURE TYPE	AIR VOIDS
PAVEMENT RESURFACING		
Leveling Binder (Machine Method), N50 (IL-9.5 mm)		4% @ 50 Gyr.
Hot-Mix Asphalt Surface Course, Mix "D", N50 (IL-9.5 mm)		3.5% @ 50 Gyr.
PATCHING		
Class D Patches (HMA Binder IL-19 mm)		4% @ 70 Gyr.
Pavement Removal & HMA Replacement (HMA Binder IL-19 mm)		4% @ 70 Gyr.
DRIVEWAYS		
Hot-Mix Asphalt Surface Course, Mix "D", N50 (IL-9.5 mm), 3"		3.5% @ 50 Gyr.
Hot-Mix Asphalt Base Course (HMA Binder IL-19 mm), 6"		4% @ 50 Gyr.

The unit weight used to calculate all Hot-Mix Asphalt Surface Mixture Quantities is 112 Lbs/SqYd/In.

The "AC Type" for polymerized HMA mixes shall be SBS/SBR PG 76-22 and for non-polymerized HMA the "AC Type" shall be "PG 64-22" unless modified by district one special provisions.
For use of recycled materials see special provisions.

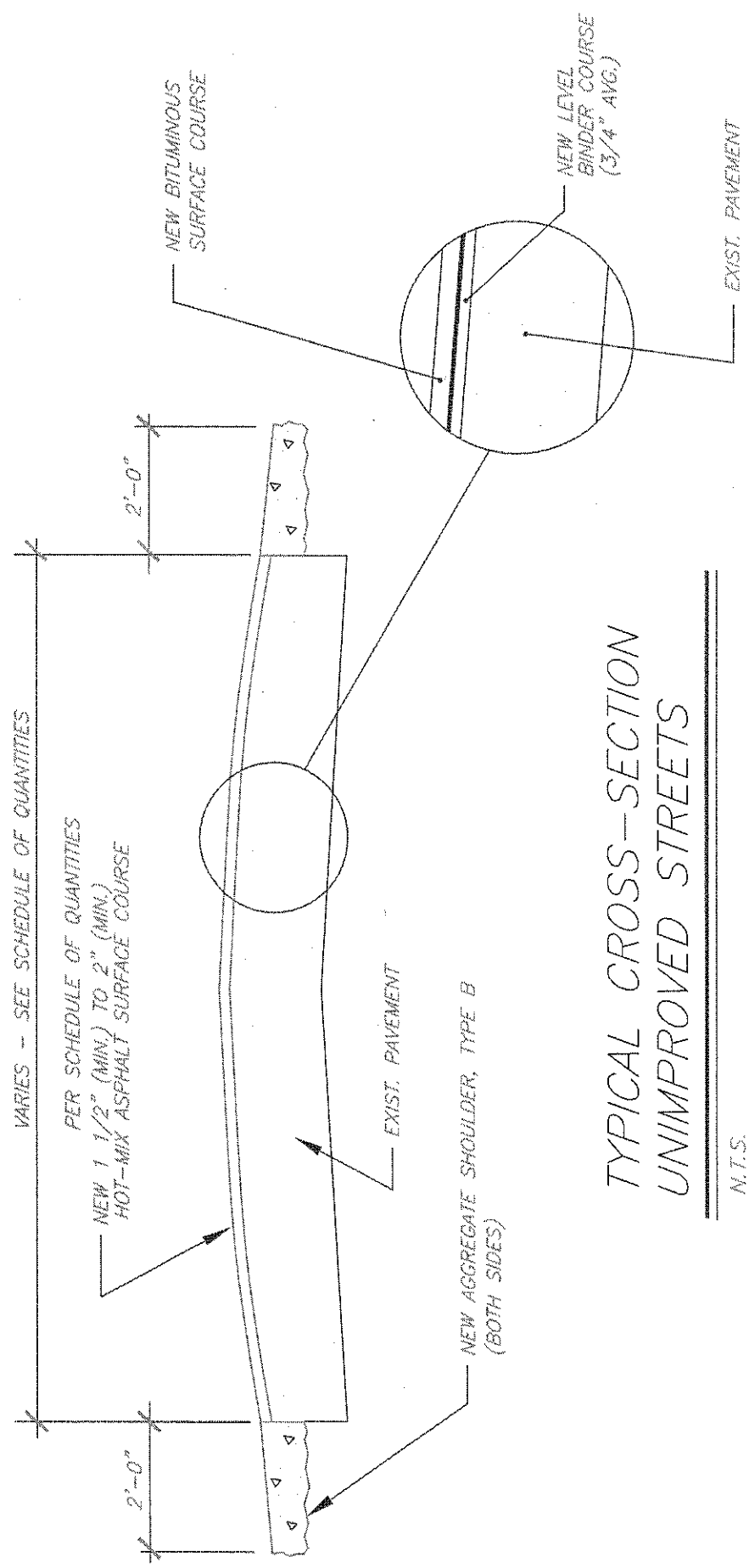
Cornell Avenue Perimeter Erosion Barrier 2015 Resurfacing Project

Exhibit #1





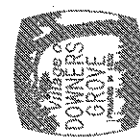
NOTE: DEPTH OF EXISTING SURFACE
REMOVAL PER SCHEDULE
OF QUANTITIES



TYPICAL CROSS-SECTION UNIMPROVED STREETS

N.T.S.

R.W.B
06/08/05
C:\CADFILES\RESURFACING\DETAILS



NOTE: DEPTH OF EXISTING SURFACE
REMOVAL PER SCHEDULE
OF QUANTITIES

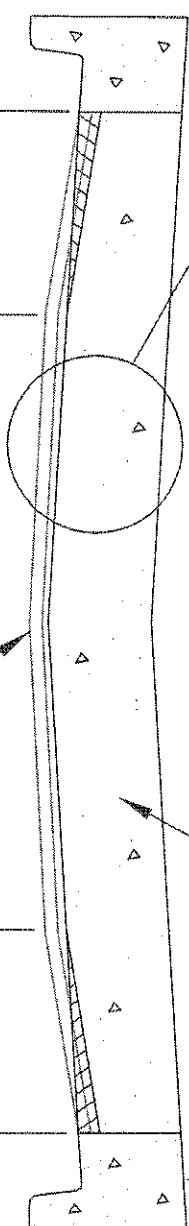
PER SCHEDULE OF QUANTITIES
NEW 1 1/2" (MIN.) 1 3/4" (MIN.) OR 2" (MIN.)
HOT-MIX ASPHALT SURFACE COURSE

VARIES - SEE SCHEDULE OF QUANTITIES

HOT-MIX ASPHALT SURFACE
REMOVAL - 6' WIDE
UNLESS FULL WIDTH SPECIFIED

HOT-MIX ASPHALT SURFACE
REMOVAL - 6' WIDE
UNLESS FULL WIDTH SPECIFIED

NEW HOT-MIX ASPHALT
SURFACE COURSE



EXIST. CONCRETE, BRICK OR
HOT-MIX ASPHALT PAVEMENT

EXIST. CURB
(TYP.)

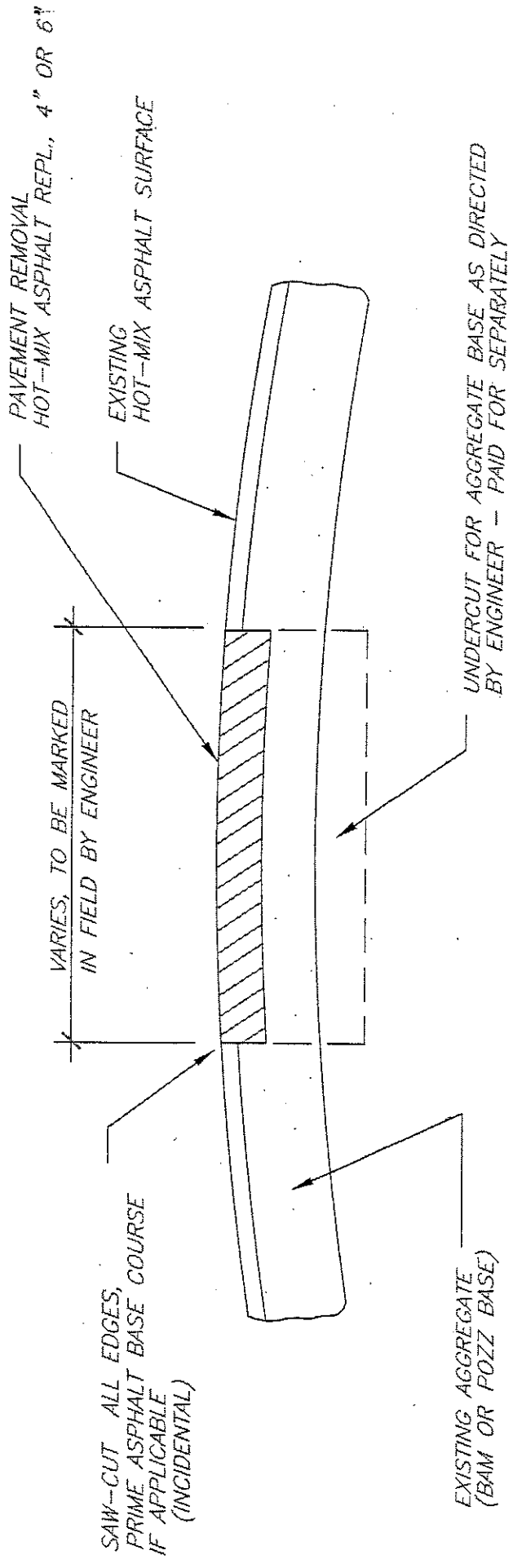
NEW LEVEL BINDER COURSE
3/4" TO 1 1/2" AVG.
PER SCHEDULE OF QUANTITIES

EXIST. PAVEMENT

TYPICAL CROSS-SECTION CURBED ROADWAYS

N.T.S.

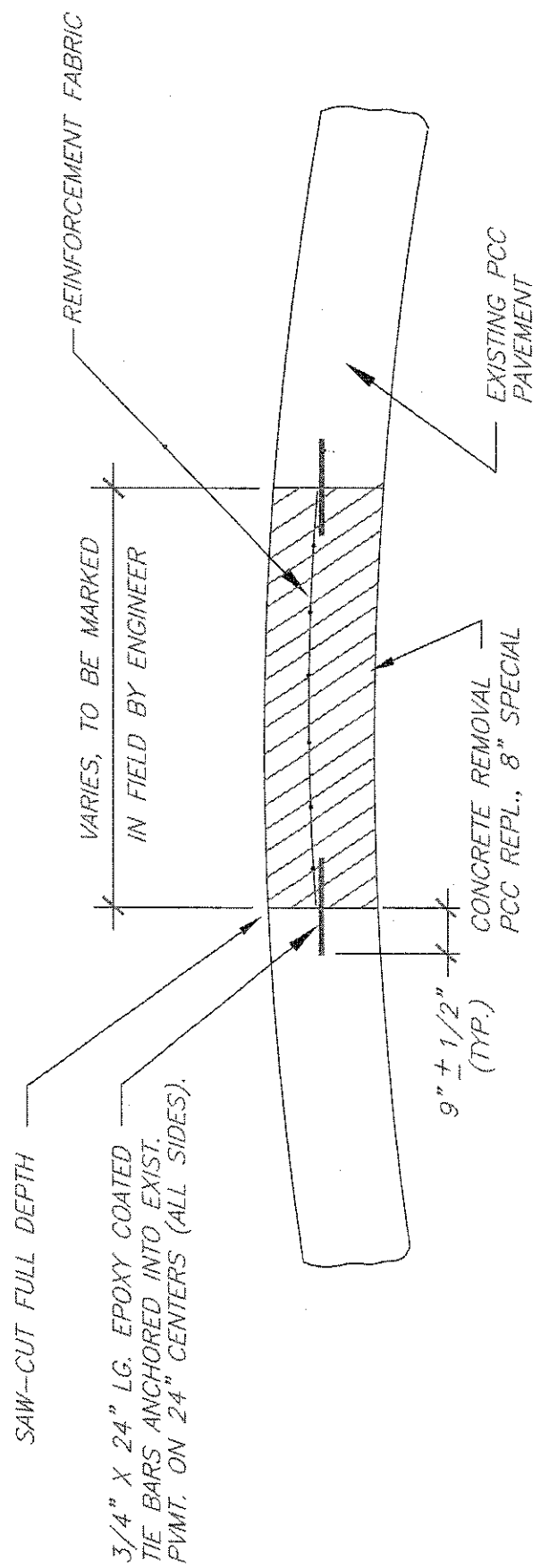
R.W.B.
06/08/05
C:\CADFILES\RESURFACING\DETAILS



CLASS D PATCHES, 4" or 6"

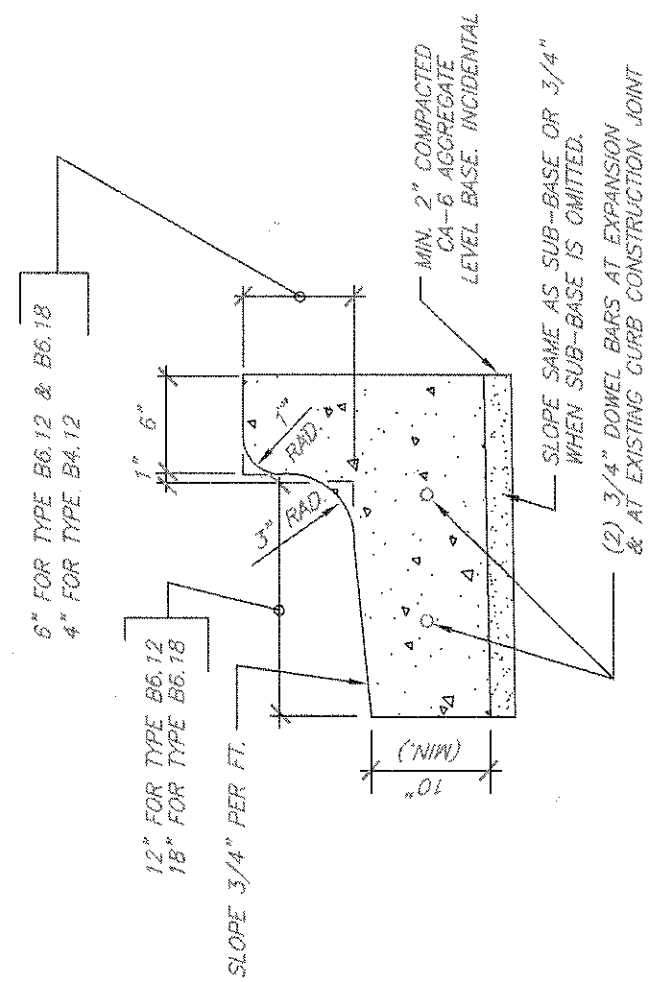
N.T.S.

R.W.B
 06/08/05
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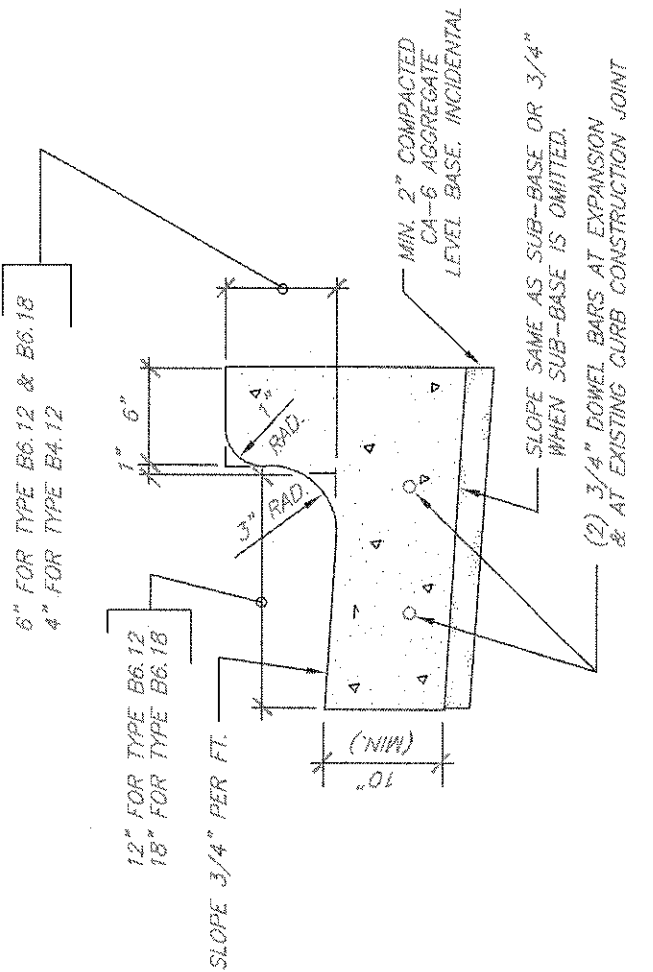


PAVEMENT REMOVAL,
PCC REPLACEMENT, 8" SPECIAL

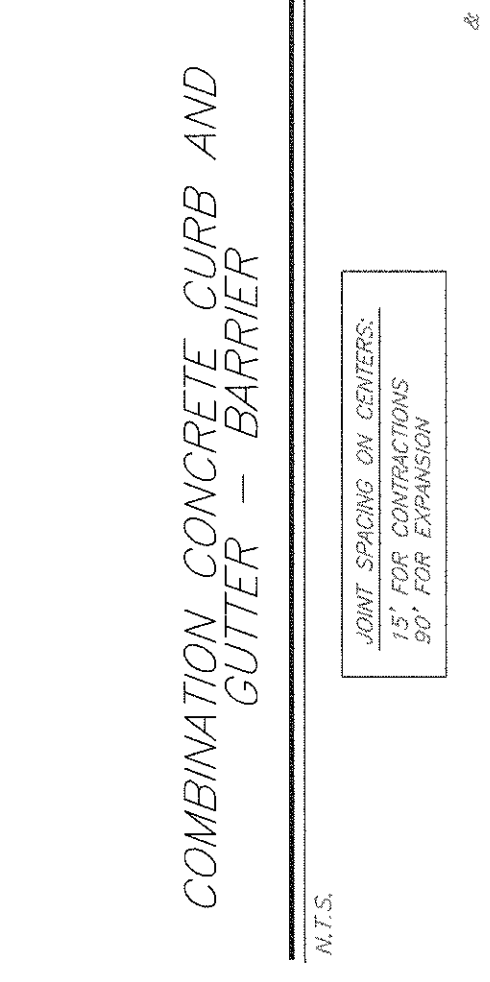
N.T.S.



BARRIER CURB WITH REVERSED PITCH



BARRIER CURB



DEPRESSED CURB

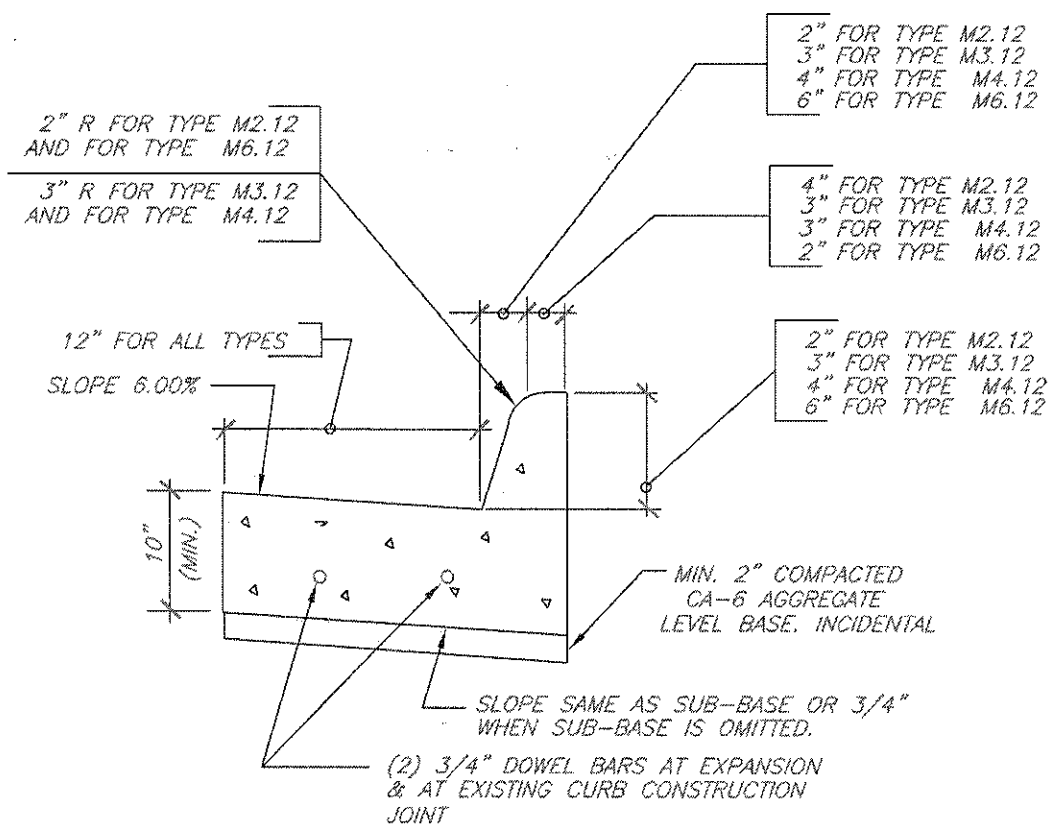
COMBINATION CONCRETE CURB AND GUTTER - BARRIER

N.T.S.

JOINT SPACING ON CENTERS:
 15' FOR CONTRACTIONS
 90' FOR EXPANSION

WHERE APPLICABLE NEW CURB SHALL BE TIED TO ADJACENT CONCRETE PAVEMENT OR BASE WITH NO. 6 (3/4") BARS AT 24" CENTERS IN ACCORDANCE WITH DETAILS FOR LONGITUDINAL CONSTRUCTION JOINT SHOWN ON STANDARD 420001





MOUNTABLE CURB

JOINT SPACING ON CENTERS:
15' FOR CONTRACTIONS
90' FOR EXPANSION

COMBINATION CONCRETE CURB & GUTTER-MOUNTABLE

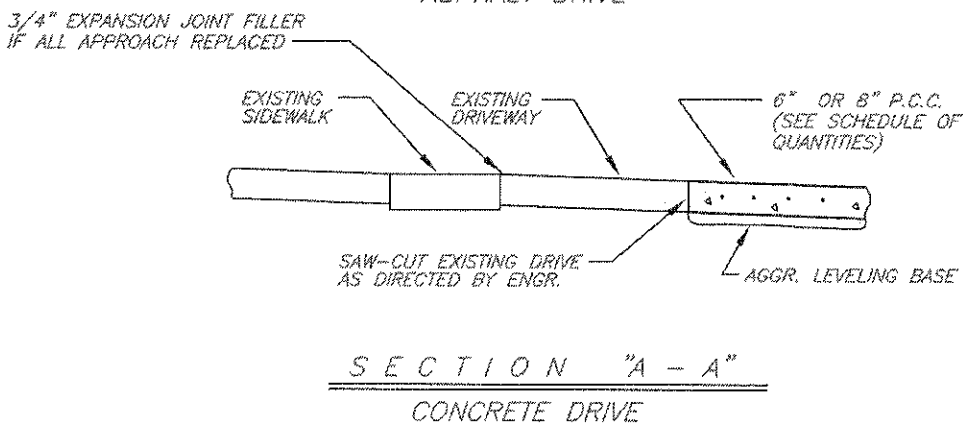
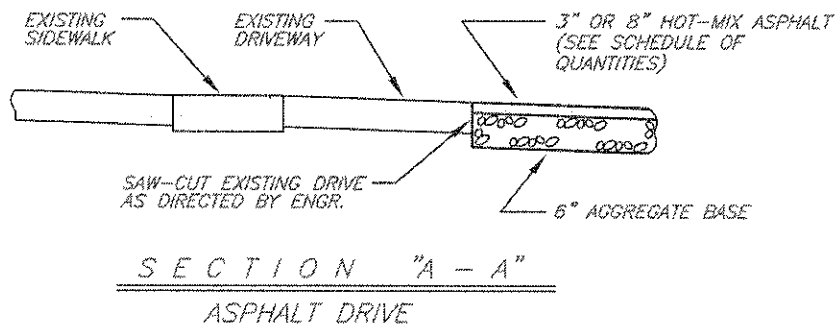
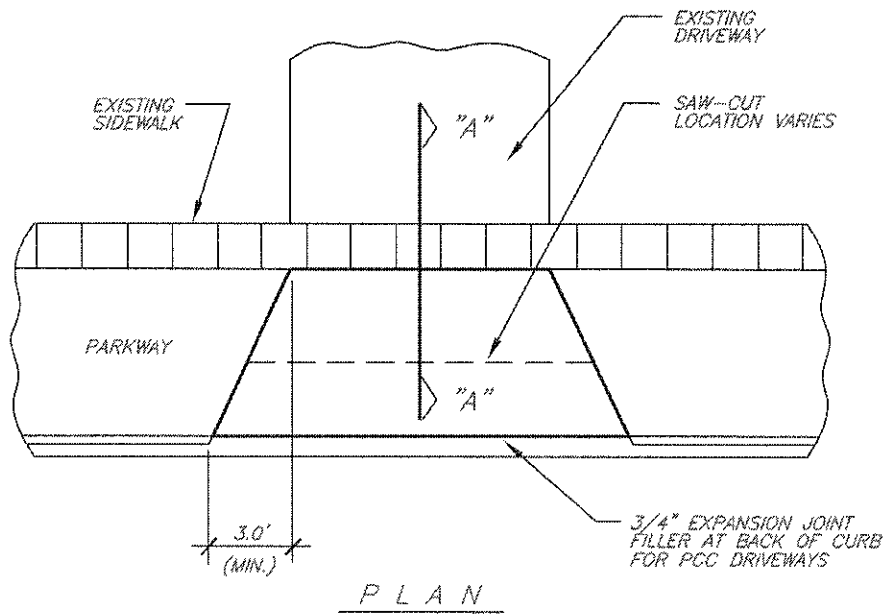
N.T.S.

STANDARD DESIGN

WHERE APPLICABLE NEW CURB SHALL BE TIED TO ADJACENT
CONCRETE PAVEMENT OR BASE WITH NO. 6 (3/4") BARS
AT 24" CENTERS IN ACCORDANCE WITH DETAILS FOR
LONGITUDINAL CONSTRUCTION JOINT SHOWN ON STANDARD 420001

R.W.B
06/08/05
C:\CADFILES\RESURFACING\DETAILS



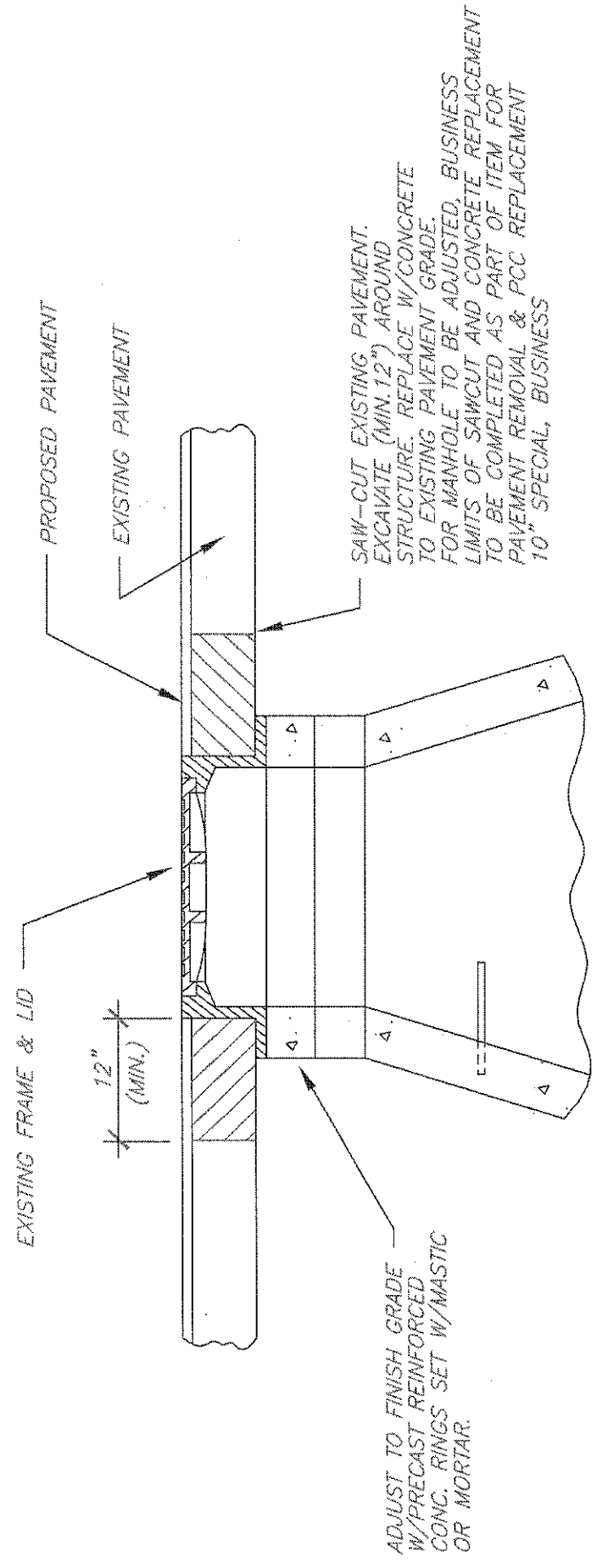


DRIVEWAY REMOVAL & REPLACEMENT

N.T.S.

R.W.B
06/08/05
C:\CADFILES\RESURFACING\DETAILS





NOTES:

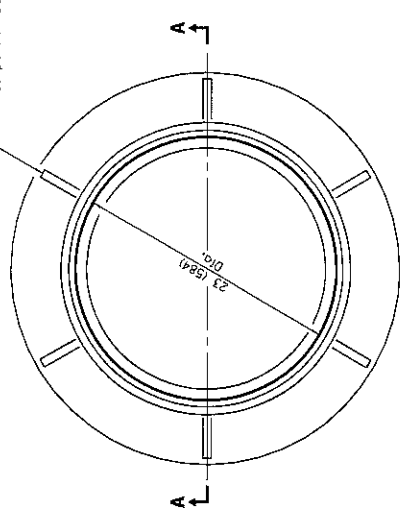
1. AFTER MANHOLE HAS BEEN ADJUSTED AND IF STREET IS OPEN TO TRAFFIC, A TYPE 1 BARRICADE W/FLASHER SHALL BE PLACED AT EACH MANHOLE.
2. SANITARY MANHOLE AND MANHOLE TO BE ADJUSTED, BUSINESS TO BE SET W/MASTIC

MANHOLE ADJUSTMENT DETAIL

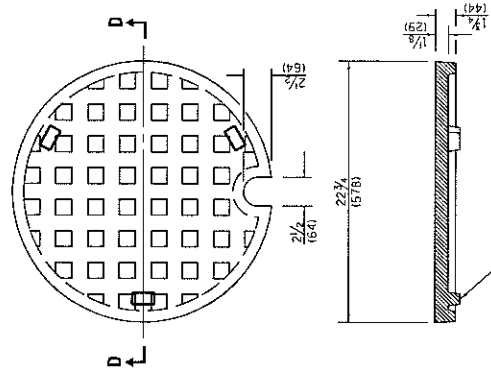
N.T.S.

Pedestrian Traffic

6 Gussets shown
10 permitted

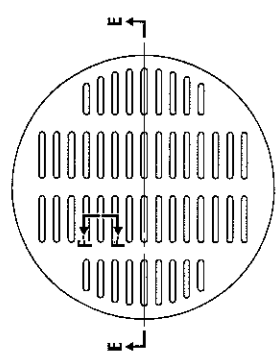


CAST FRAME



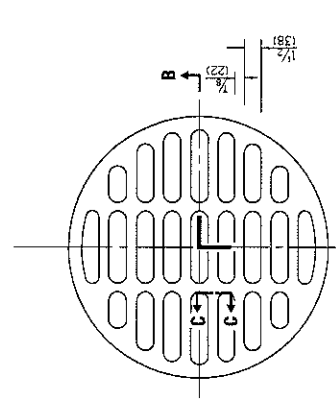
SECTION D-D

CAST CLOSED LID
Gray Iron Lid



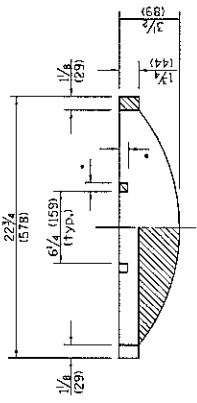
SECTION E-E

**ADA COMPLIANT
CAST OPEN LID**



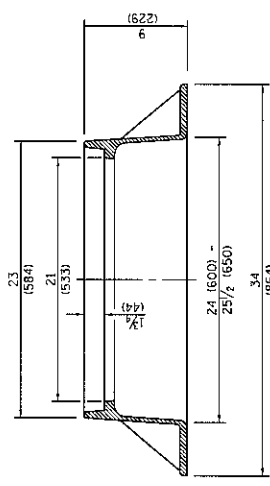
SECTION C-C

CAST OPEN LID



SECTION B-B

SECTION A-A
Gray Iron



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

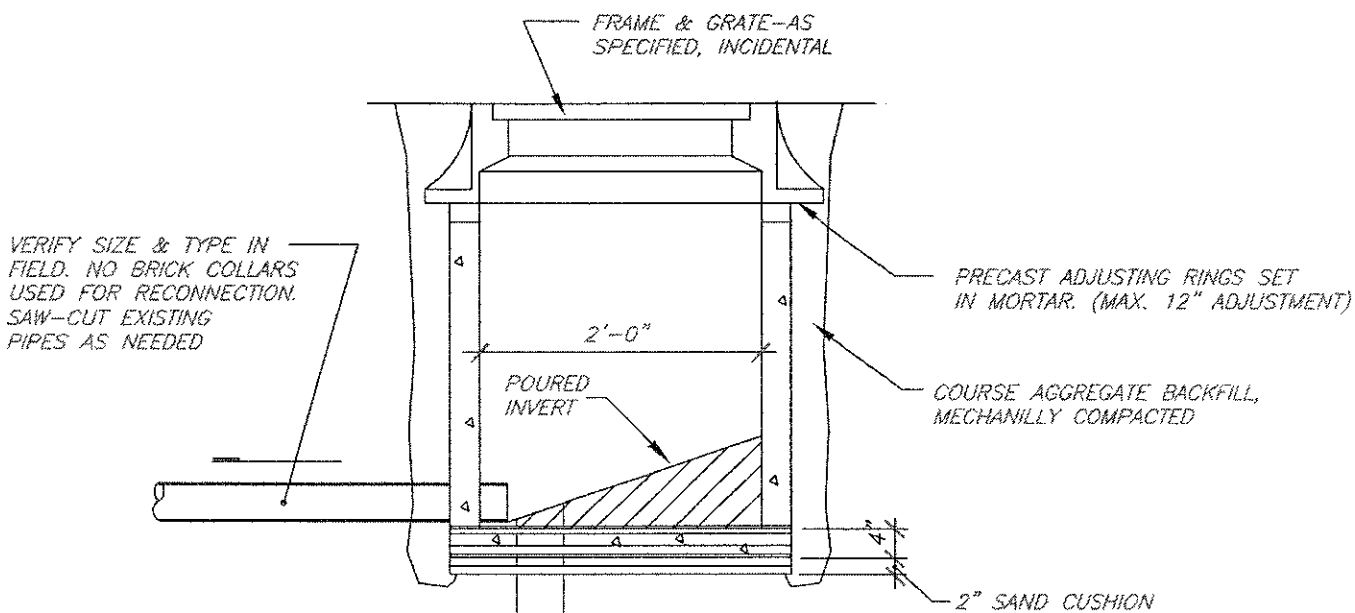
DATE	REVISIONS
1-1-15	Revised dimensioning of frame. Added ADA compliant open lid.
1-1-09	Switched units to English (metric).

**FRAME AND LIDS
TYPE 1**

STANDARD 604001-04

Illinois Department of Transportation
 PASSED January 1, 2015
 ENGINEER OF POLICY AND PROCEDURES
 APPROVED [Signature] JUNE 1, 2015
 ENGINEER OF DESIGN AND ENVIRONMENT

ISSUED 1-1-15



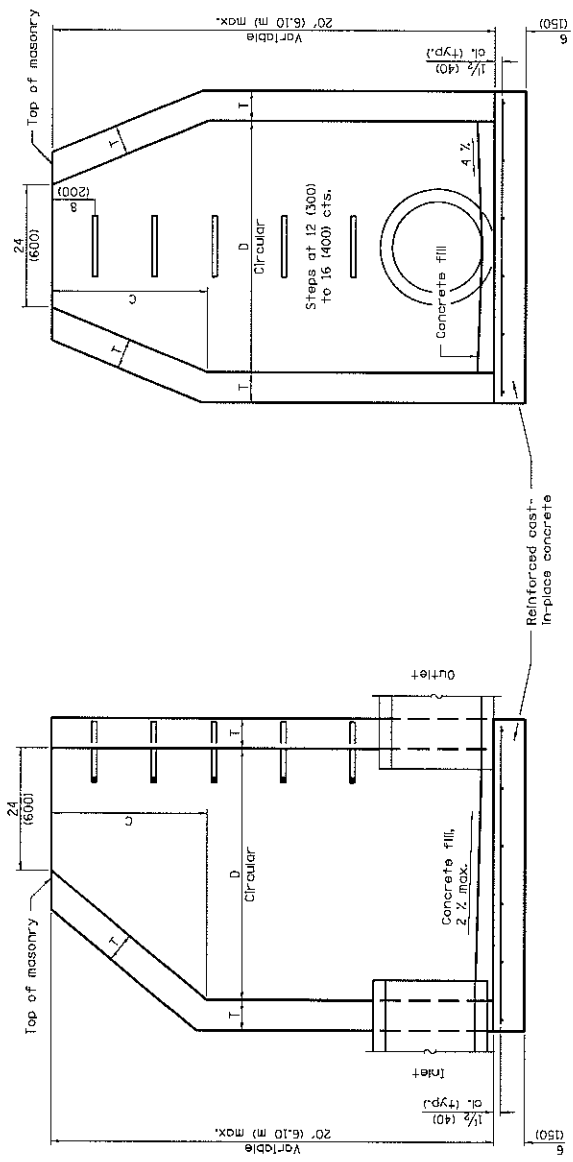
NOTE: INSIDE WALL OF INLET TO BE FLUSH WITH FACE OF CURB FOR TYPE I FRAME OR BACK OF CURB FOR TYPE 3 & TYPE II FRAME

TYPE "A" INLET NEW/REPLACEMENT

N.T.S.

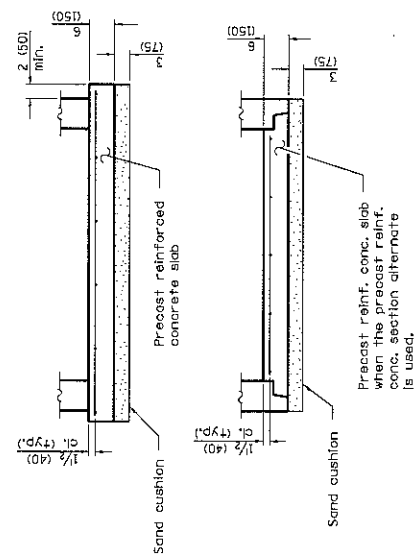
R.W.B
06/08/05
C:\CADFILES\RESURFACING\DETAILS





ELEVATION - CONCENTRIC

ELEVATION - ECCENTRIC



ALTERNATE BOTTOM SLAB

ALTERNATE MATERIALS FOR WALLS	D	C*	T (min.)
Precast Reinforced Concrete Section	4'-0" (1.2 m) 5'-0" (1.5 m)	30 (750) 3'-9" (1.15 m)	4 (100) 5 (125)
Cast-in-place Concrete	4'-0" (1.2 m) 5'-0" (1.5 m)	30 (750) 3'-9" (1.15 m)	6 (150) 6 (150)

* For precast reinforced concrete sections, dimensions for masonry from the dimension given to plus 6 (150).

GENERAL NOTES

Bottom slabs shall be reinforced with a minimum of 0.31 sq. in./ft. (660 sq. mm/m) in both directions with a maximum spacing of 12 (300).
Bottom slabs may be connected to the riser as determined by the fabricator; however, only a single row of reinforcement around the perimeter may be utilized.

See Standard 602701 for details of steps.

See Standard 602601 for optional Precast Reinforced Concrete Flat Slab Top.

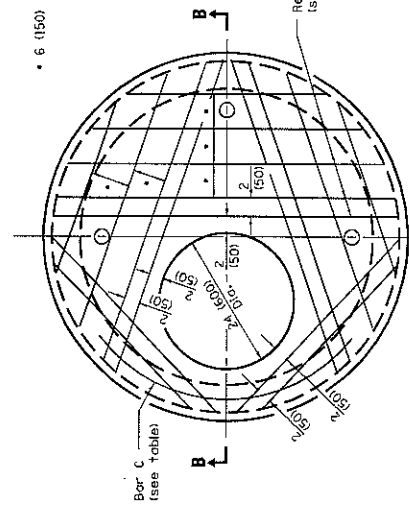
All dimensions are in inches (millimeters) unless otherwise shown.

DATE	REVISIONS
1-1-11	Detailed rein. in slabs.
	Added max. limit to height.
	Revised general notes.
1-1-09	Switched units to English (metric).

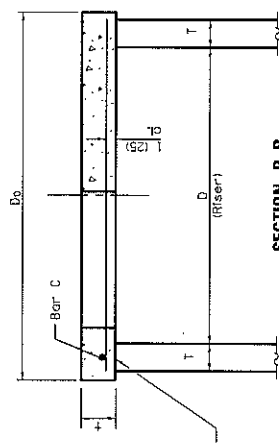
MANHOLE TYPE A

STANDARD 602401-03

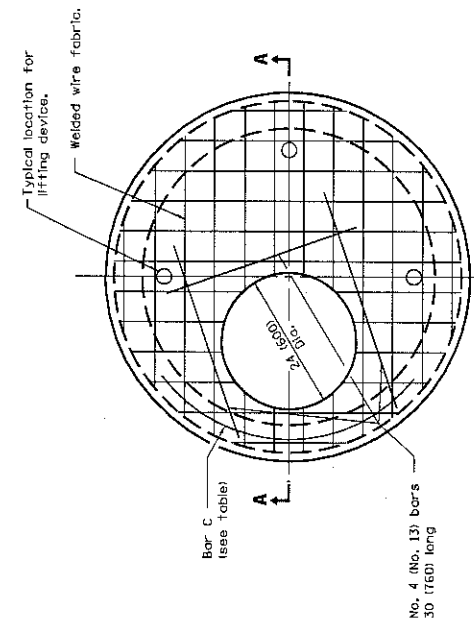
Illinois Department of Transportation
 ISSUED 1-1-97
 PASSED January 1, 2011
 ENGINEER OF POLICY AND PROCEDURES
 APPROVED [Signature] JUNE 1, 2011
 ENGINEER OF DESIGN AND ENVIRONMENT



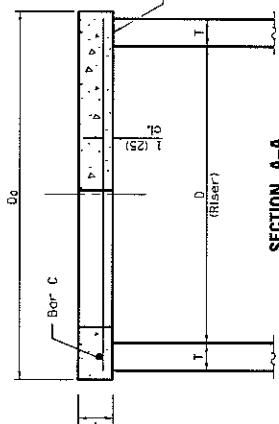
PLAN
(REINFORCEMENT BARS)



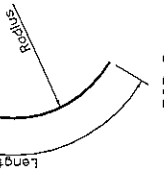
SECTION B-B



PLAN
(WELDED WIRE FABRIC)



SECTION A-A



BAR C

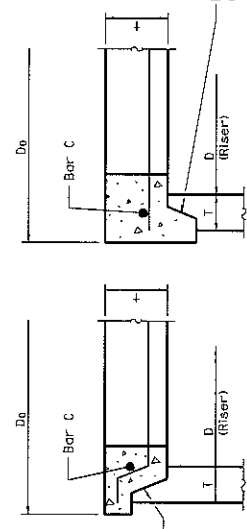
GENERAL NOTES

The flat slab top may be used in lieu of the tapered tops shown on Standards 602001, 602011, 602016, 602306, 602401, or 602501 at the option of the Contractor or when field conditions prohibit the use of tapered tops.
All dimensions are in millimeters (inches) unless otherwise shown.

PRECAST REINFORCED
CONCRETE FLAT SLAB TOP

STANDARD 602601-03

ALTERNATE JOINT CONFIGURATIONS



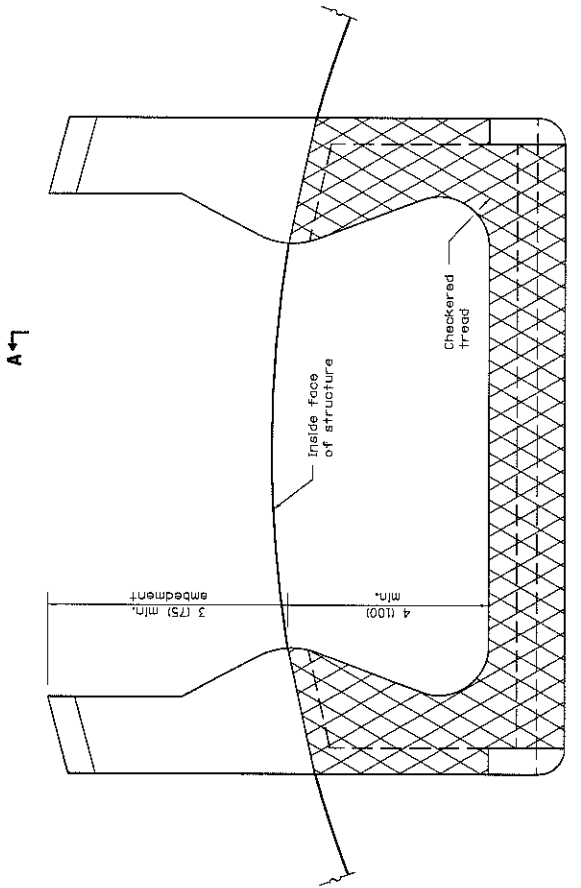
TABLE

D	T	D ₀ (min.)	Reinforcement "A," W.W.F. or Bar size each direction	No. 4 (No. 13) Bar C size	No. 4 (No. 13) Bar C Length	Radius
36 (900)	6 (150)	21	0.20 sq. in./ft. (425 sq. mm/m)	No. 4 (No. 13)	4'-0" (1.2 m)	19 (480)
4'-0" (11.2 m)	6 (150)	21	0.35 sq. in./ft. (740 sq. mm/m)	No. 5 (No. 16)	4'-6" (1.35 m)	26 (660)
5'-0" (1.5 m)	8 (200)	21	0.35 sq. in./ft. (740 sq. mm/m)	No. 5 (No. 16)	5'-0" (1.5 m)	32 (810)

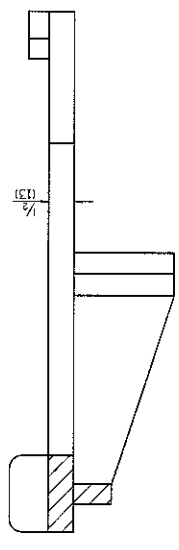
DATE	REVISIONS
1-1-14	Omitted detail for lifting hole or lifting loop.
1-1-09	Switched units to English (metric).

Illinois Department of Transportation
 PASSED JUNE 11, 2014
 ENGINEER OF POLICY AND PROCEDURES
 APPROVED JUNE 11, 2014
 ENGINEER OF DESIGN AND ENVIRONMENT

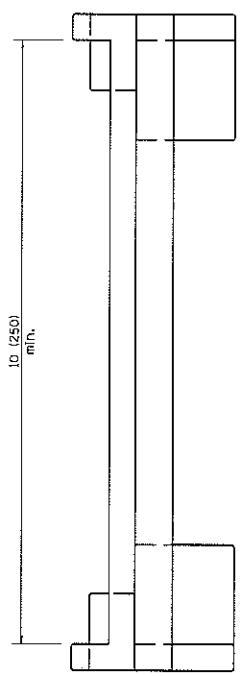
CAST IRON STEPS



PLAN VIEW



SECTION A-A



ELEVATION VIEW

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

DATE	REVISIONS
1-1-09	Switched units to English (metric).
4-1-06	Revised title, drawings and added plastic steps on sheet 2.

MANHOLE STEPS

(Sheet 1 of 2)

STANDARD 602701-02

Illinois Department of Transportation

PASSED: JESSICA L. 2009

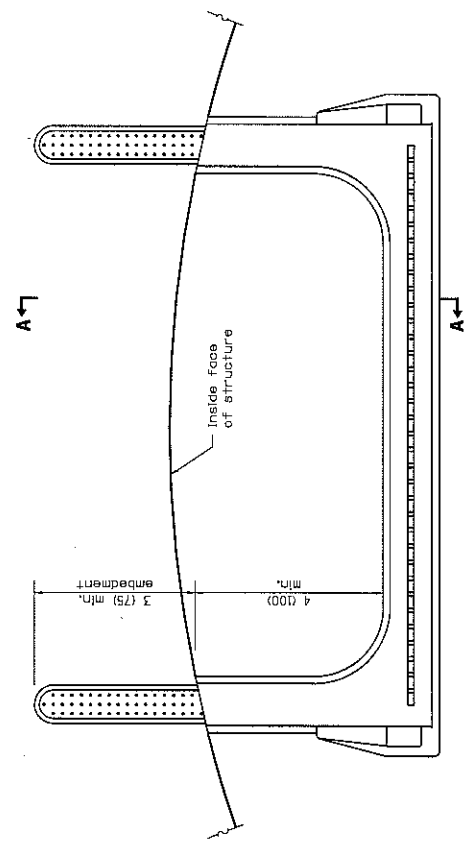
ENGINEER OF POLICY AND PROCEDURES

APPROVED: JESSICA L. 2009

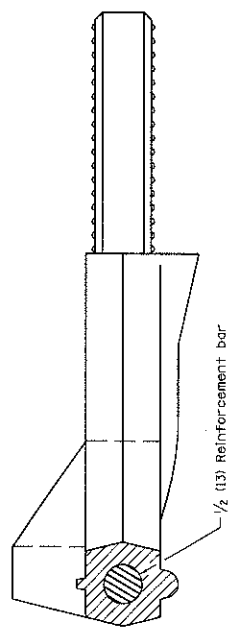
ENGINEER OF DESIGN AND ENVIRONMENT

ISSUED: 1-1-97

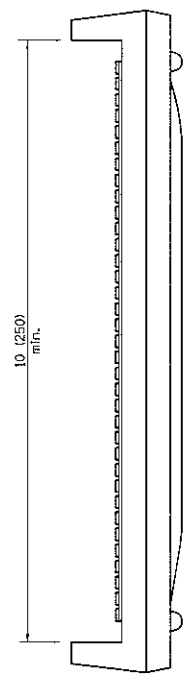
PLASTIC STEPS



PLAN VIEW



SECTION A-A



ELEVATION VIEW

MANHOLE STEPS

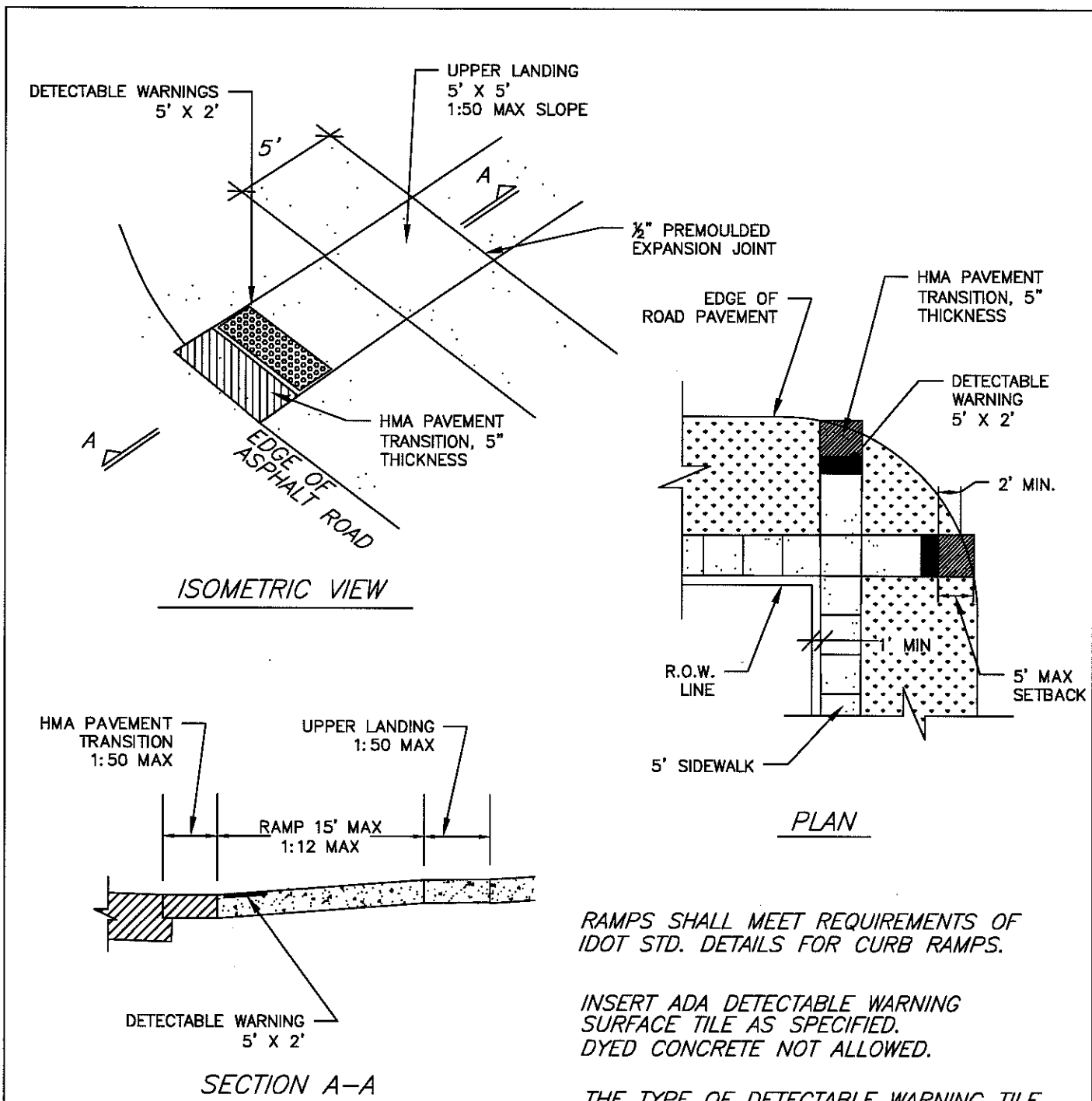
(Sheet 2 of 2)

STANDARD 602701-02

Illinois Department of Transportation

PASSED _____ JUNE 1, 2009
 ENGINEER OF POLICY AND PROCEDURES
 APPROVED _____ JUNE 1, 2009
 ENGINEER OF DESIGN AND ENVIRONMENT


ISSUED 1-1-97

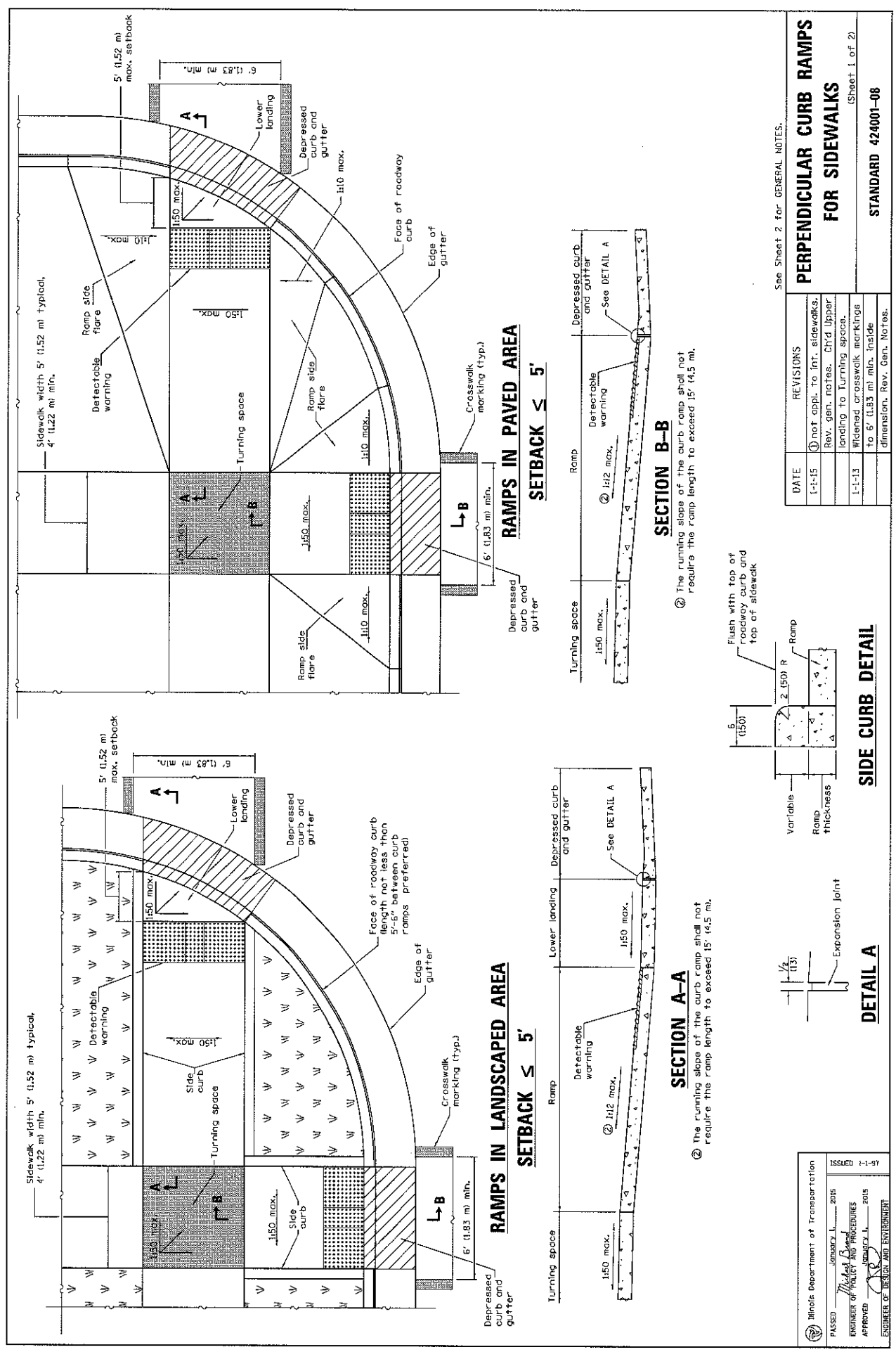


RAMPS SHALL MEET REQUIREMENTS OF IDOT STD. DETAILS FOR CURB RAMPS.

INSERT ADA DETECTABLE WARNING SURFACE TILE AS SPECIFIED. DYED CONCRETE NOT ALLOWED.

THE TYPE OF DETECTABLE WARNING TILE SHALL BE ARMOR-TILE, CAST IN PLACE SYSTEM, OR ACCESS TILE TACTILE SYSTEMS OR APPROVED EQUAL.

N.T.S.	DATE	REVISIONS	DRAWN BY	APPVD BY	STANDARD DETAIL
	04/12/07		D.J.G.		<p>A.D.A RAMPS ON NON-CURBED STREETS</p>
	03/25/11		S.A.V.	A.J.S.	
	03/26/12		T.J.T.	A.J.S.	
	03/01/15		A.J.S.	A.J.S.	
DRAWING NO.SWK-03					
I:\LIBRARY\DETAILS\SIDEWALK\SWK-03					



See Sheet 2 for GENERAL NOTES.

PERPENDICULAR CURB RAMPS FOR SIDEWALKS	
(Sheet 1 of 2)	
DATE	REVISIONS
1-1-15	① not appl. to int. sidewalks, Rev. gen. notes, CHD lipjar landing to turning space.
1-1-13	② Widened crosswalk markings to 5' (1.53 m) min. inside dimension. Rev. Gen. Notes.

STANDARD 424001-06

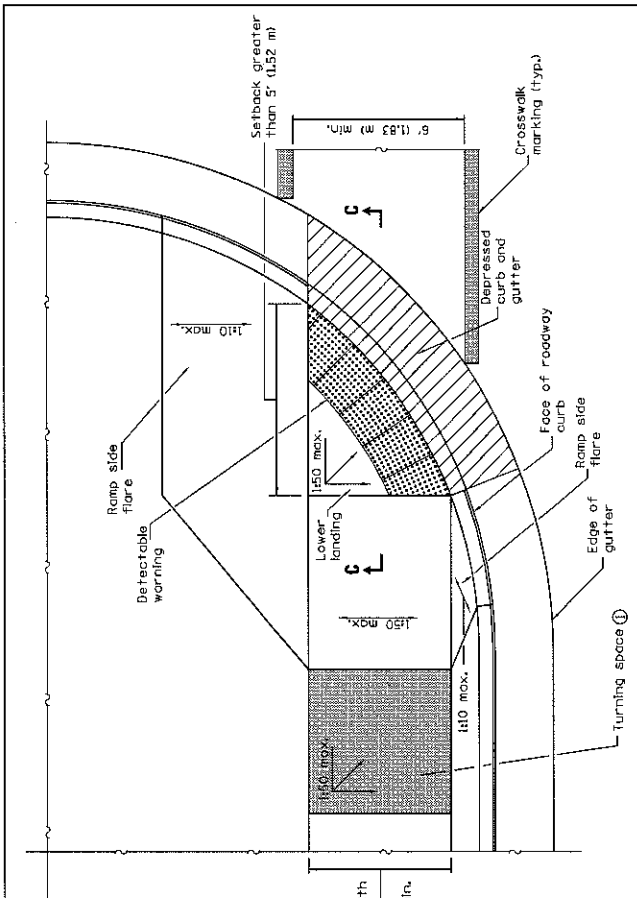
Illinois Department of Transportation
 PASSED January 1, 2015
 ENGINEER OF POLICY AND PROCEDURES
 APPROVED January 1, 2015
 ENGINEER OF DESIGN AND ENVIRONMENT

SECTION A-A
 ② The running slope of the curb ramp shall not require the ramp length to exceed 15' (4.5 m).

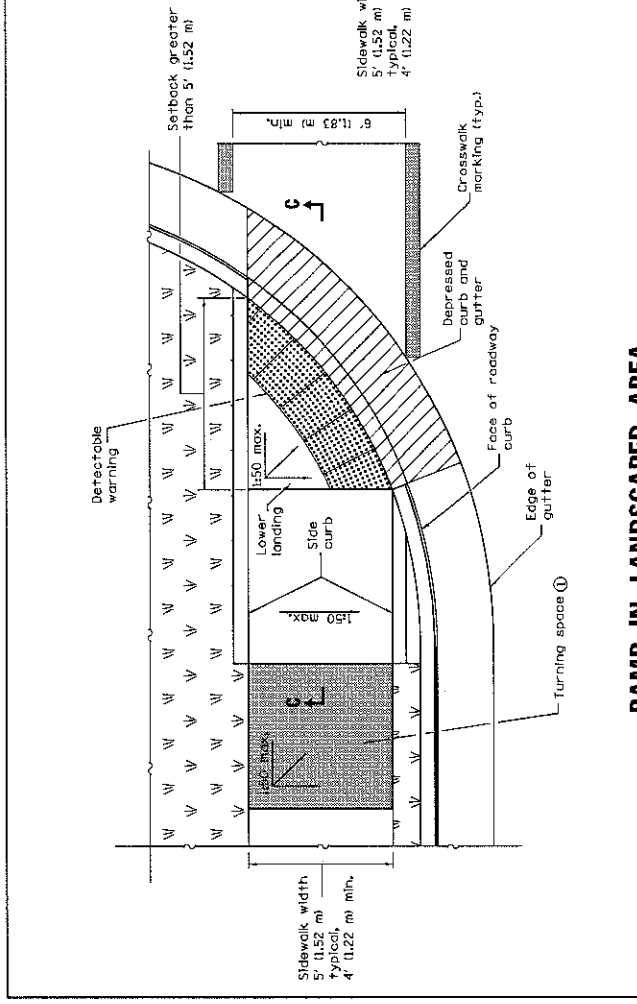
SECTION B-B
 ② The running slope of the curb ramp shall not require the ramp length to exceed 15' (4.5 m).

SIDE CURB DETAIL

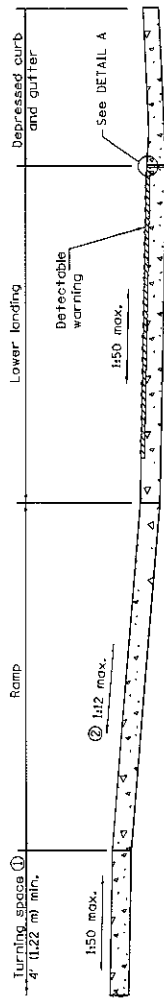
DETAIL A



RAMP IN LANDSCAPED AREA
SETBACK > 5'



RAMP IN PAVED AREA
SETBACK > 5'



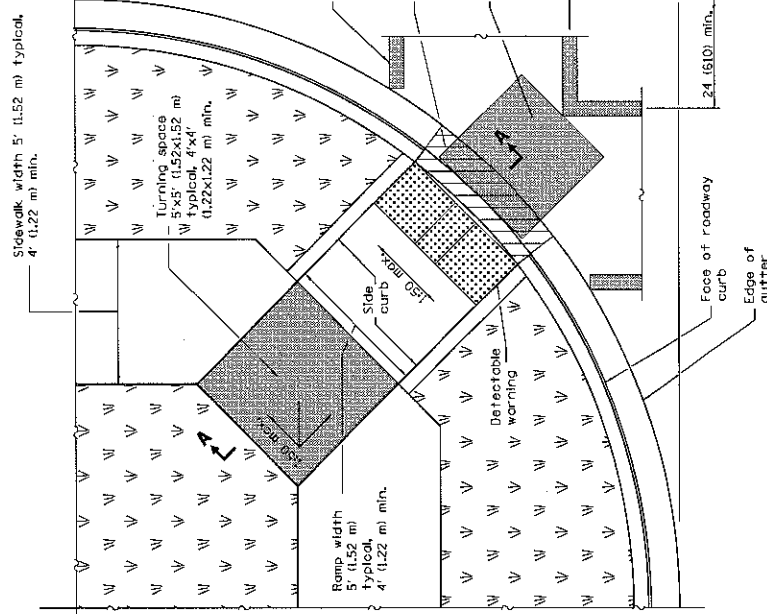
SECTION C-C

- ① Turning space not required for ramp slopes flatter than 1:20.
- ② The running slope of the curb ramp shall not require the ramp length to exceed 15' (4.5 m).

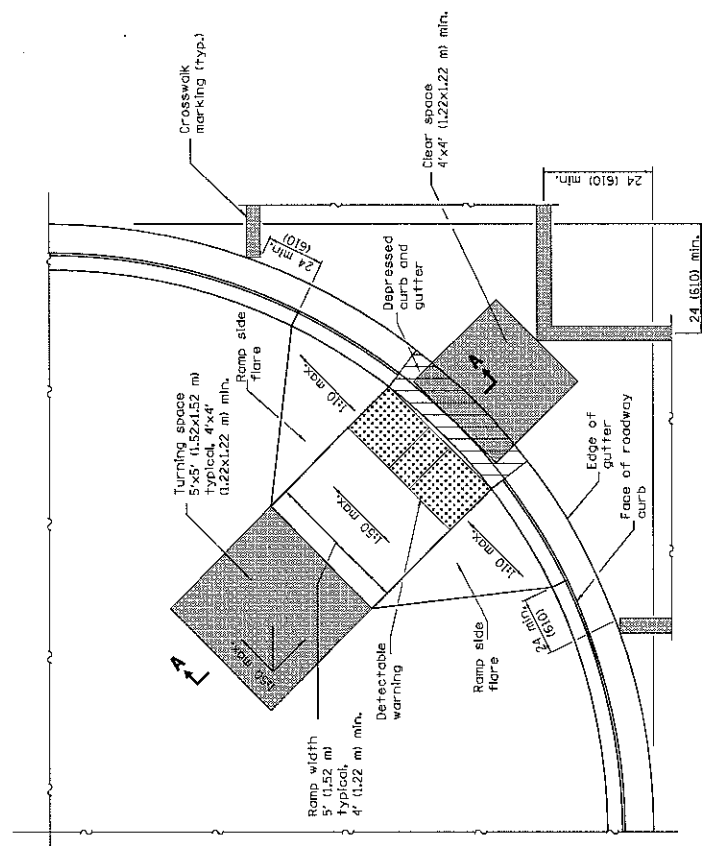
GENERAL NOTES
All slope ratios are expressed as units of vertical displacement to units of horizontal displacement (V:H).
Where the turning space is constrained on a side opposite a ramp, the minimum length of the turning space in the direction of the ramp-run shall be 5' (1.52 m).
Where 1:50 maximum slope is shown, 1:64 is preferred.
See Standard 605001 for details of depressed curb adjacent to curb ramp.
All dimensions are in inches (millimeters) unless otherwise shown.

PERPENDICULAR CURB RAMPS FOR SIDEWALKS
(Sheet 2 of 2)
STANDARD 424001-08

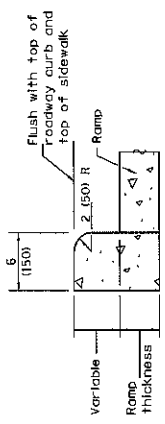
Illinois Department of Transportation PASSED ENGINEER OF TRAFFIC AND PROCEDURES APPROVED ENGINEER OF DESIGN AND ENVIRONMENT	JANUARY 1, 2015 [Signature]	ISSUED 1-1-97
	[Signature]	
	[Signature]	
	[Signature]	



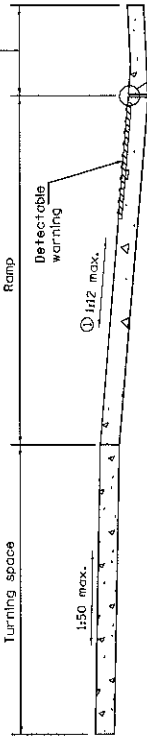
RAMP IN LANDSCAPED AREA



RAMP IN PAVED AREA



SIDE CURB DETAIL



SECTION A-A

① The running slope of the curb ramp shall not require the ramp length to exceed 15' (4.5 m).

Illinois Department of Transportation

PASSED	JANUARY 1, 2015	ISSUED	1-1-12
APPROVED	[Signature]	ENGINEER OF POLICY AND PROCEDURES	
APPROVED	[Signature]	ENGINEER OF DESIGN AND ENVIRONMENT	

DETAIL A

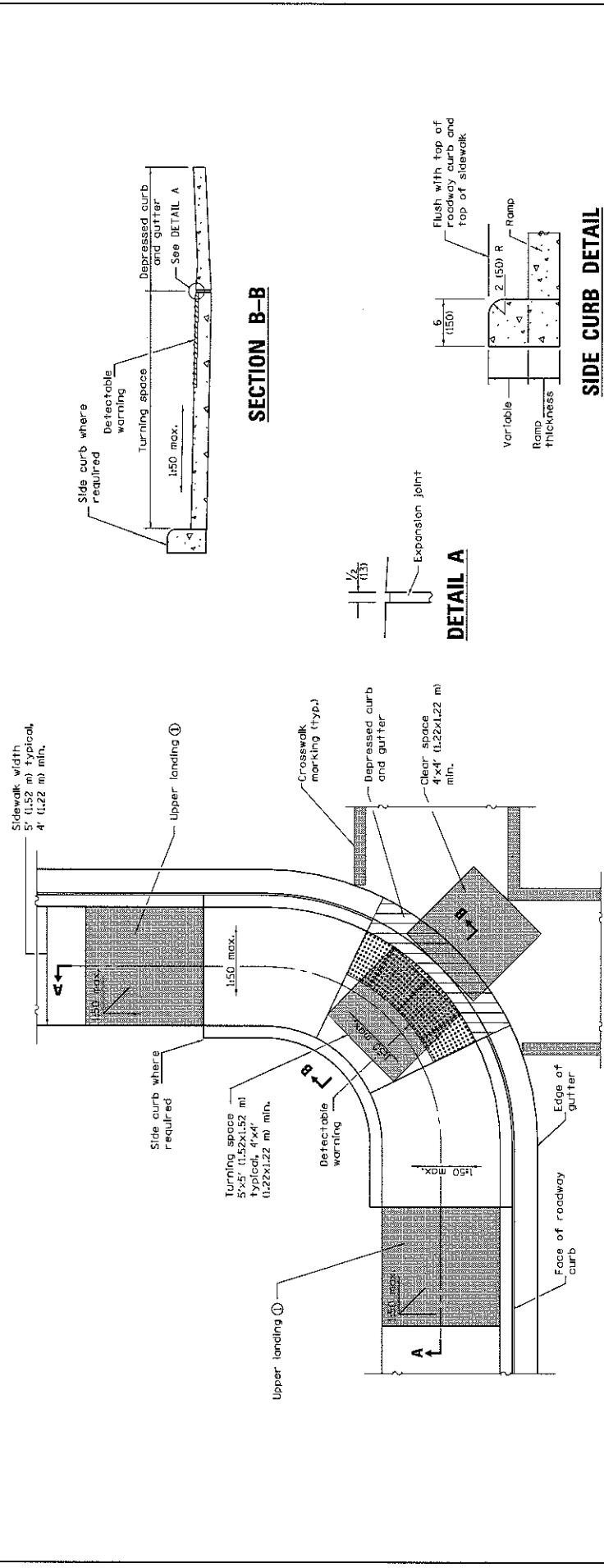
GENERAL NOTES

This Standard shall only be used for curb radii of 20 ft. (6.1 m) or greater.
 Where the turning space is constrained on a side opposite a ramp, the minimum length of the turning space in the direction of the ramp-run shall be 5' (1.52 m).
 Where 1:50 maximum slope is shown, 1:64 is preferred.
 All slope ratios are expressed as units of vertical displacement to units of horizontal displacement (1/4th).
 See Standard 606001 for details of depressed curb adjacent to curb ramp.
 All dimensions are in inches (millimeters) unless otherwise shown.

DATE	REVISIONS
1-1-15	Changed 'upper landing' to 'turning space'. Added note 'reg. const. turning space'.
1-1-13	Revised General Notes.

**DIAGONAL CURB RAMP
FOR SIDEWALKS**

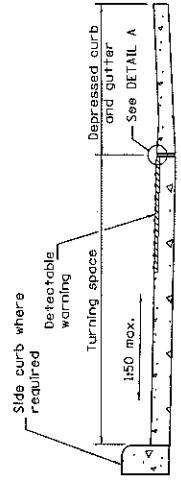
STANDARD 424006-02



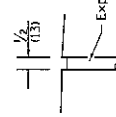
CORNER PARALLEL CURB RAMP

SECTION A-A

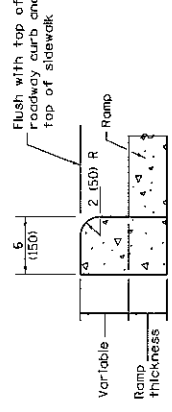
- ① Upper landing(s) not required for ramp slopes flatter than 1:20.
- ② The running slope of the curb ramp shall not require the ramp length to exceed 15' (4.5 m).



SECTION B-B



DETAIL A



SIDE CURB DETAIL

GENERAL NOTES

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

Where the turning space is constrained on a side opposite a ramp, the minimum length of the turning space in the direction of the ramp-run shall be 5' (1.52 m).

Where 1:50 maximum slope is shown, 1:64 is preferred.

See Standard 605001 for details of depressed curb adjacent to curb ramp.

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

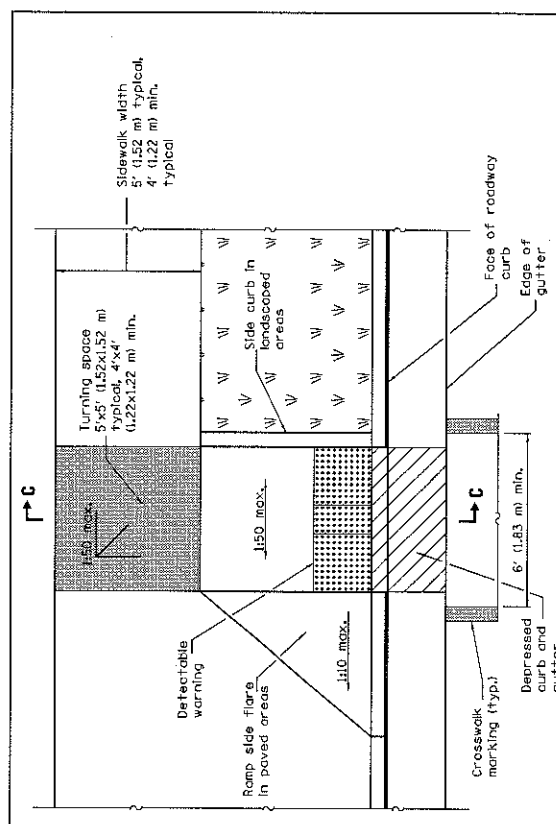
DATE	REVISIONS
1-1-15	Changed 'Lower landing' to 'Turning space'. Added 'x-walk markings'. Added note ②.
1-1-13	Revised General Notes.

CORNER PARALLEL CURB RAMPS FOR SIDEWALKS

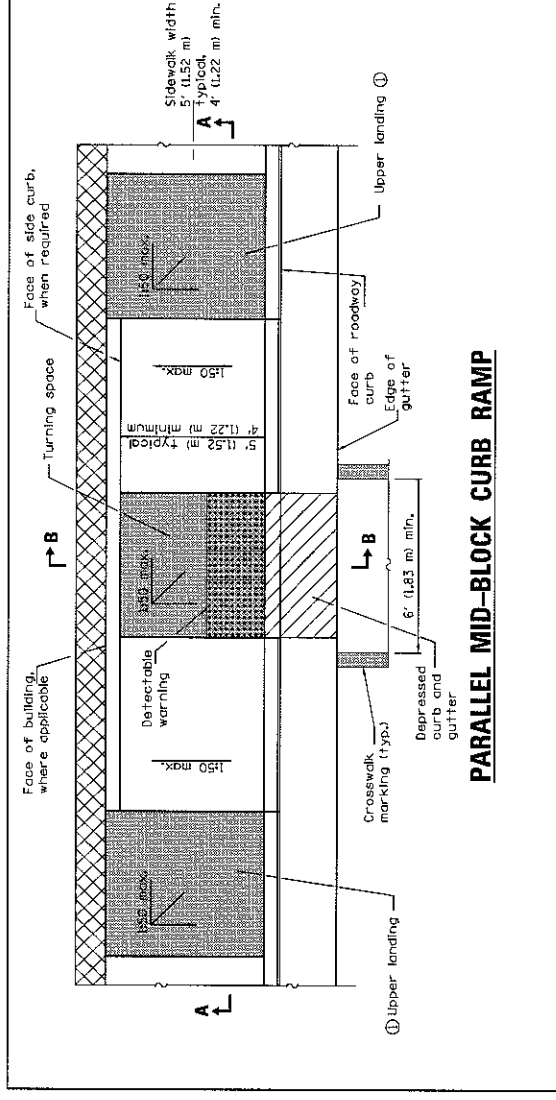
STANDARD 424011-02

Illinois Department of Transportation
 PASSED January 1, 2015
 ENGINEER OF POLICY AND PROCEDURES
 APPROVED January 1, 2015
 ENGINEER OF DESIGN AND ENVIRONMENT

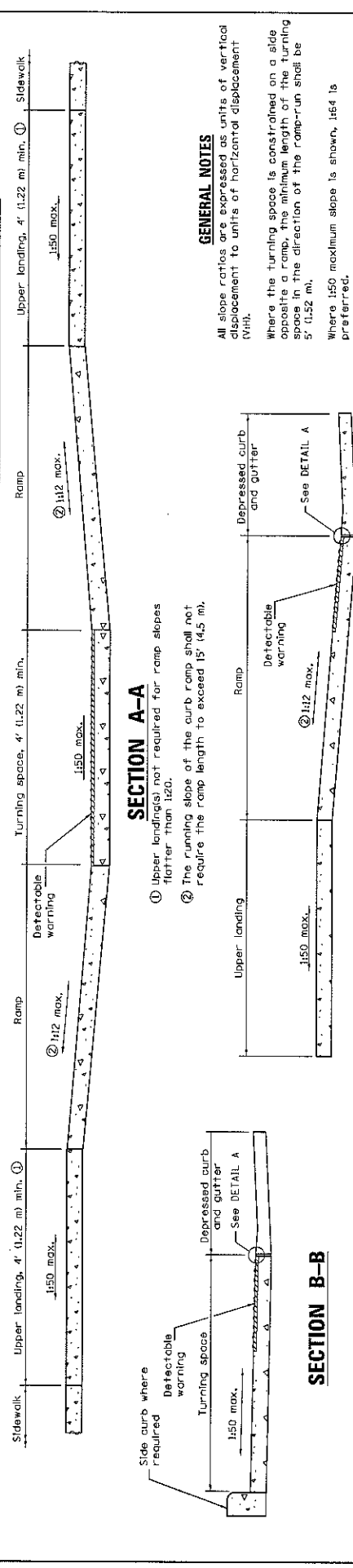
ISSUED 1-1-12



PARALLEL MID-BLOCK CURB RAMP



PERPENDICULAR MID-BLOCK CURB RAMP



- SECTION A-A**
- ① Upper landing(s) not required for ramp slopes flatter than 1:20.
 - ② The running slope of the curb ramp shall not require the ramp length to exceed 15' (4.5 m).

GENERAL NOTES

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

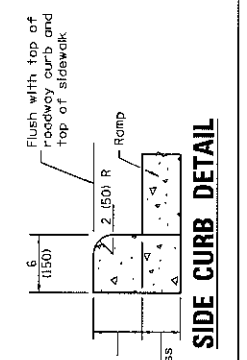
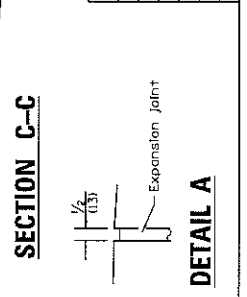
Where the turning space is constrained on a side opposite a ramp, the minimum length of the turning space in the direction of the ramp-run shall be 5' (1.52 m).

Where 1:50 maximum slope is shown, 1:64 is preferred.

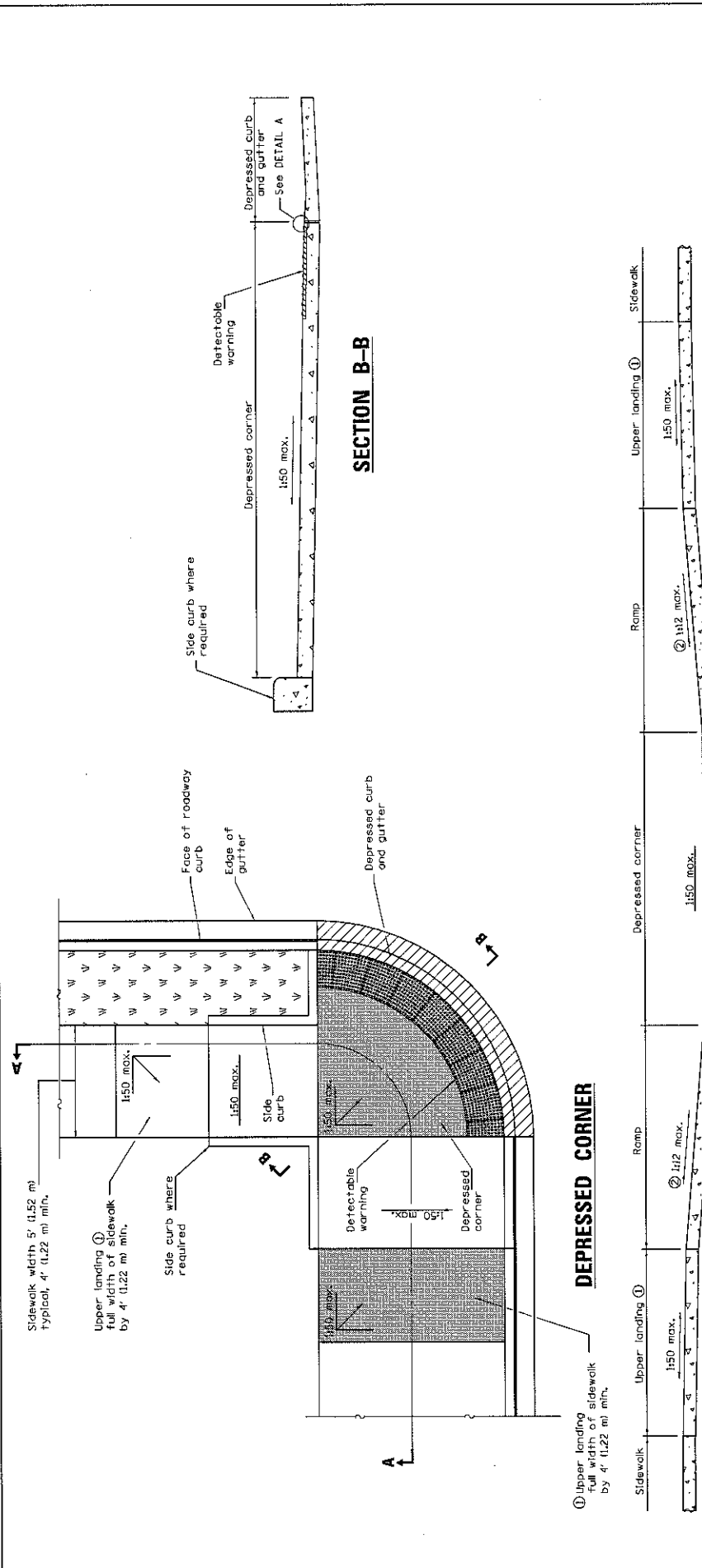
See Standard 605001 for details of depressed curb adjacent to curb ramp.

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

REVISIONS	
DATE	1-1-15
CHANGED	'Lower landing' to 'Turning space'. Added note ②. Rev. Gen. Notes.
DATE	1-1-13
CHANGED	Widened crosswalk markings to 6' (1.83 m) min. inside dimension. Rev. Gen. Notes.



ILLINOIS DEPARTMENT OF TRANSPORTATION PASSED APRIL 1, 2018 ENGINEER OF POLICY AND PROCEDURES APPROVED APRIL 1, 2015 ENGINEER OF DESIGN AND ENVIRONMENT	ISSUED	1-1-12
	MID-BLOCK CURB RAMPS FOR SIDEWALKS	
	STANDARD 424016-02	



GENERAL NOTES

This standard shall only be used for curb radii of 6 ft. (1.83 m) or greater.

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

Where 1:50 maximum slope is shown, 1:64 is preferred.

See Standard 606001 for details of depressed curb adjacent to curb ramp.

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

DATE	REVISIONS
1-1-15	Added note ②.
1-1-14	Revised sidewalk width, Revised gen. notes to limit curb rad. to 6' (1.83 m) min.

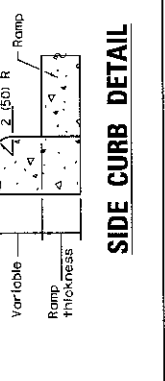
DEPRESSED CORNER FOR SIDEWALKS

STANDARD 424021-03

SECTION A-A

① Upper landings not required for ramp slopes flatter than 1:20.

② The running slope of the curb ramp shall not require the ramp length to exceed 15' (4.5 m).



SECTION B-B

Labels: Side curb where required, Detectable warning, Depressed corner, 150 max., Face of roadway curb, Edge of gutter, Depressed curb and gutter, Upper landing 1, Ramp, Sidewalk.

DEPRESSED CORNER

① Upper landing full width of sidewalk by 4' (1.22 m) min.

Labels: Upper landing 1, Ramp, Sidewalk, 150 max., 1:12 max., 150 max., 1:50 max., Side curb, Detectable warning, Depressed corner, Side curb where required, Upper landing full width of sidewalk by 4' (1.22 m) min., Face of roadway curb, Edge of gutter, Depressed curb and gutter.

DETAIL A

Labels: Expansion joint, 1/2 (12.5).

SIDE CURB DETAIL

Labels: Flush with top of roadway curb and top of sidewalk, 5 (150), 2.650 R, Ramp, Variable Ramp thickness.

Illinois Department of Transportation

ISSUED 1-1-12

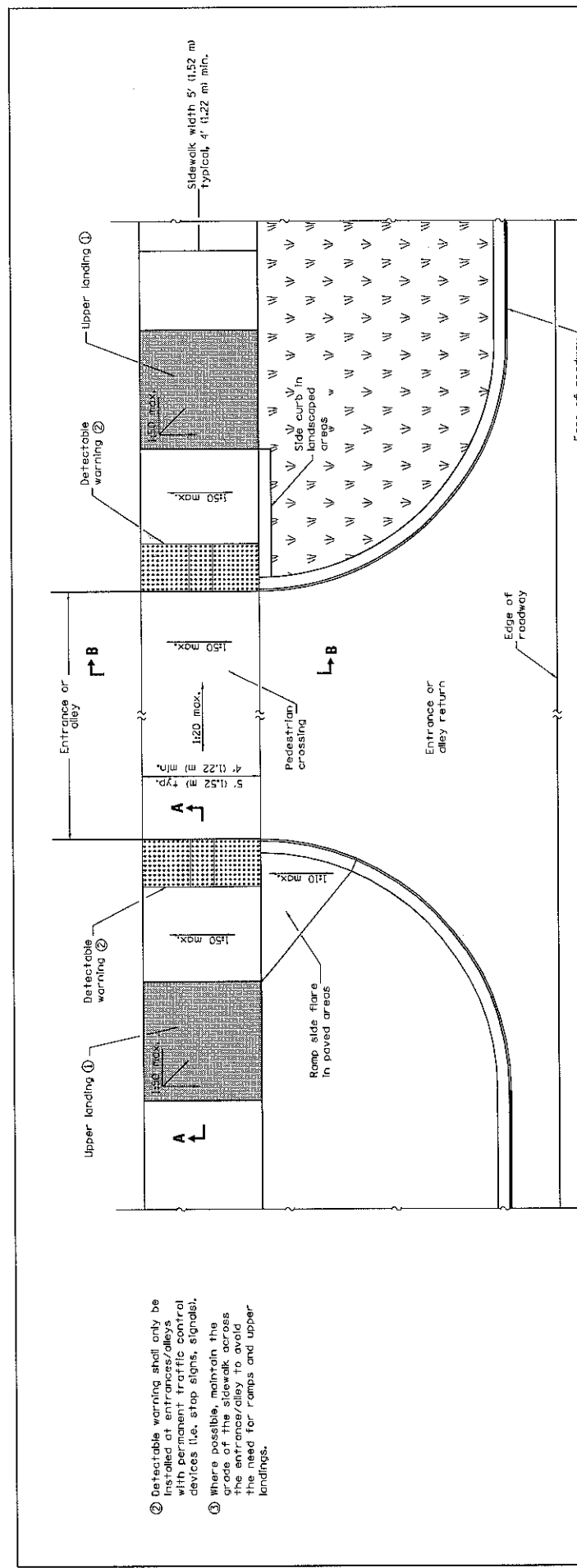
2015

ENGINEER OF POLICY AND PROCEDURES

APPROVED

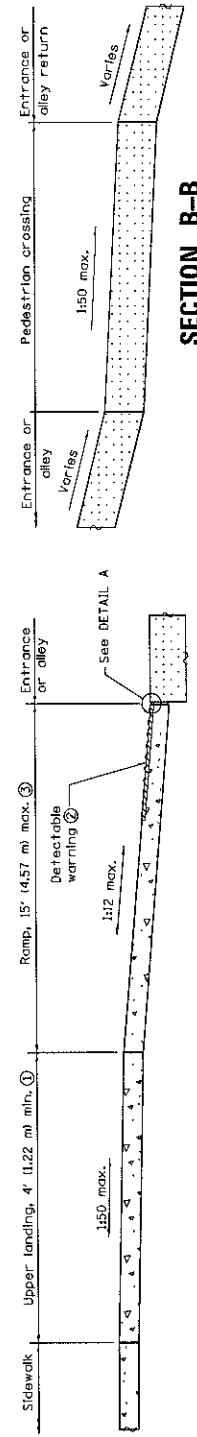
2015

ENGINEER OF DESIGN AND ENVIRONMENT



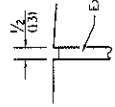
- ② Detectable warning shall only be installed at entrances/alleys with permanent traffic control devices (i.e. stop signs, signals).
- ③ Where possible, maintain the grade of the sidewalk across the entrance/alley to avoid the need for ramps and upper landings.

ENTRANCE / ALLEY PEDESTRIAN CROSSING



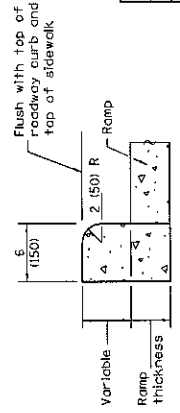
SECTION A-A

① Upper landing not required for ramp slopes flatter than 1:20.



DETAIL A

SIDE CURB DETAIL



SECTION B-B

GENERAL NOTES

All slope ratios are expressed as units of vertical displacement to units of horizontal displacement (1/12).
Where 1/50 maximum slope is shown, 1/64 is preferred.
All dimensions are in inches (millimeters) unless otherwise shown.

REVISIONS	
DATE	Revised General Notes.
1-1-13	
1-1-12	New standard.

ENTRANCE / ALLEY PEDESTRIAN CROSSINGS

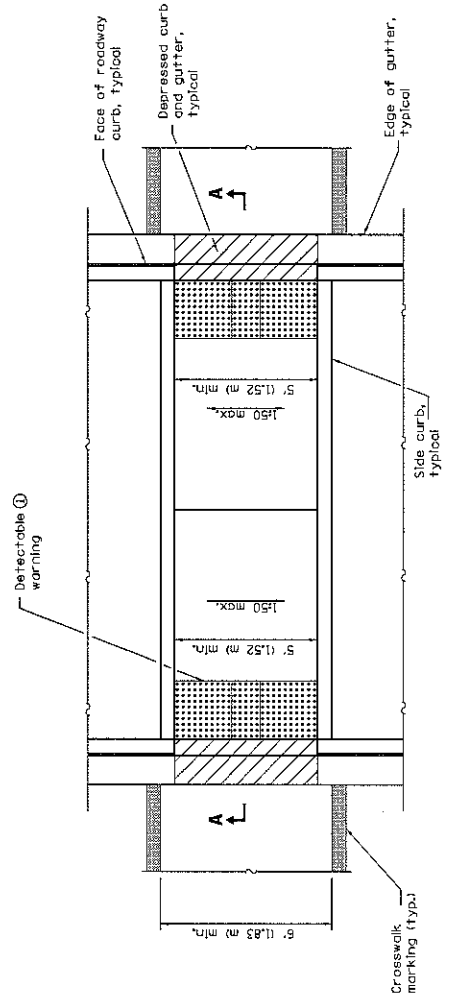
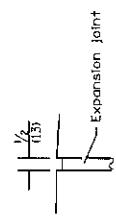
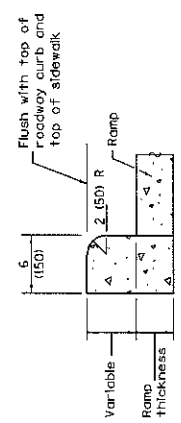
STANDARD 424026-01

Illinois Department of Transportation

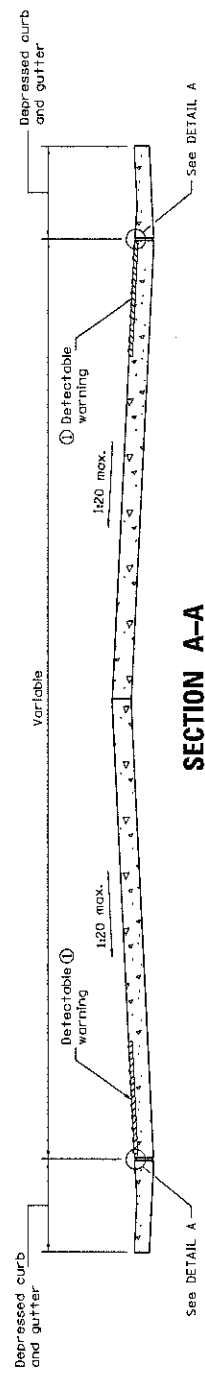
ISSUED 1-1-12

APPROVED: [Signature] January 1, 2015
 ENGINEER OF POLICY AND PROCEDURES

APPROVED: [Signature] January 1, 2015
 ENGINEER OF DESIGN AND ENVIRONMENT



MEDIAN PEDESTRIAN CROSSING



① Omit detectable warnings when distance between back of curbs is less than 6' (1.83 m).

GENERAL NOTES

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

Where 1:50 maximum slope is shown, 1:64 is preferred.

See Standard 60601 for details of depressed curb adjacent to curb ramp.

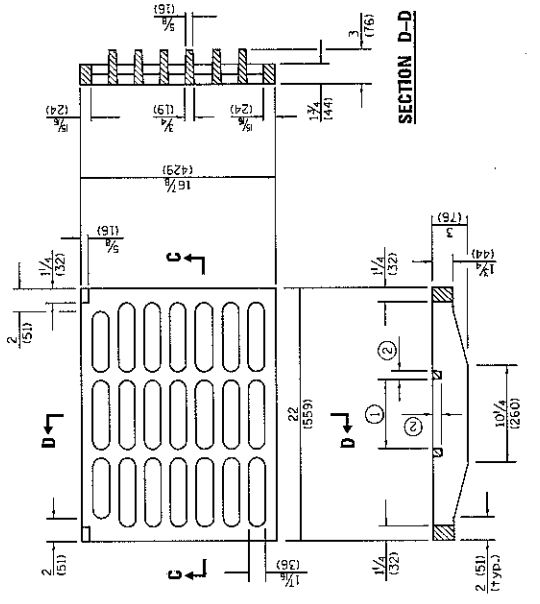
All dimensions are in inches (millimeters) unless otherwise shown.

MEDIAN PEDESTRIAN CROSSINGS	
DATE	REVISIONS
1-1-12	Widened crosswalk to 6' (1.83 m) min. inside dimension.
	Revised General Notes.
1-1-12	New standard.
STANDARD 424031-01	

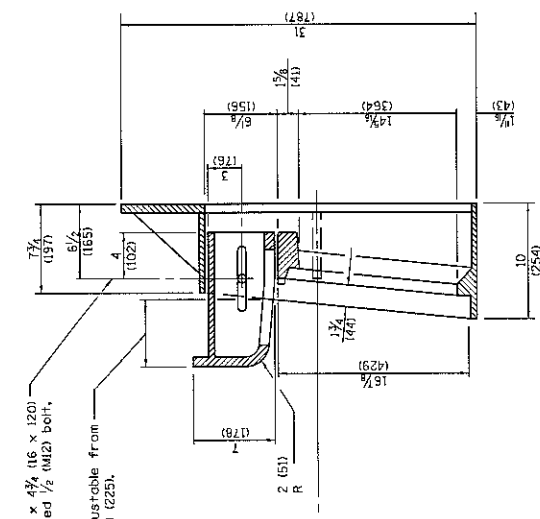
Illinois Department of Transportation

ISSUED 1-1-12

PREPARED BY: *[Signature]* January 1, 2013
 ENGINEER OF POLICY AND PROCEDURES
 APPROVED BY: *[Signature]* January 1, 2015
 ENGINEER OF DESIGN AND ENVIRONMENT



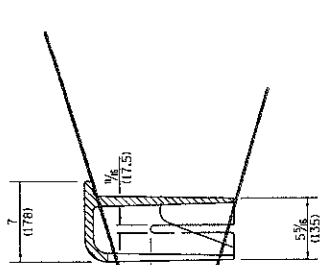
SECTION C-C
 ① = 6 (152) typ.
 ② = 1/4 (19) typ.



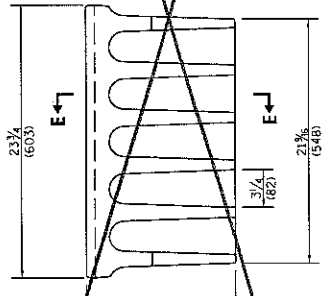
SECTION B-B



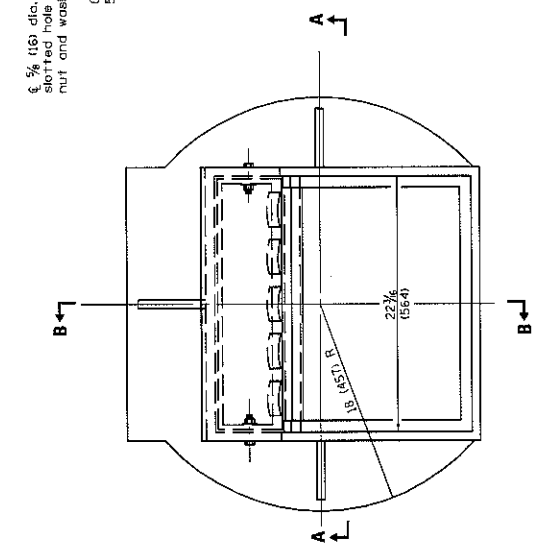
CAST GRATE



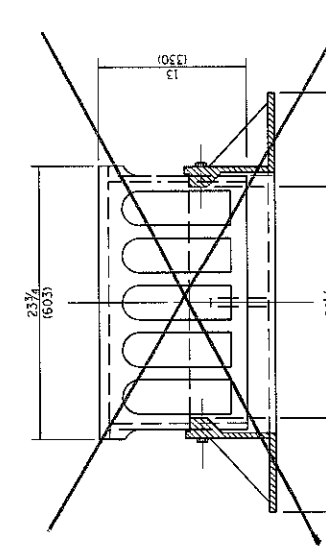
SECTION E-E



ALTERNATE CURB BOX



CAST FRAME



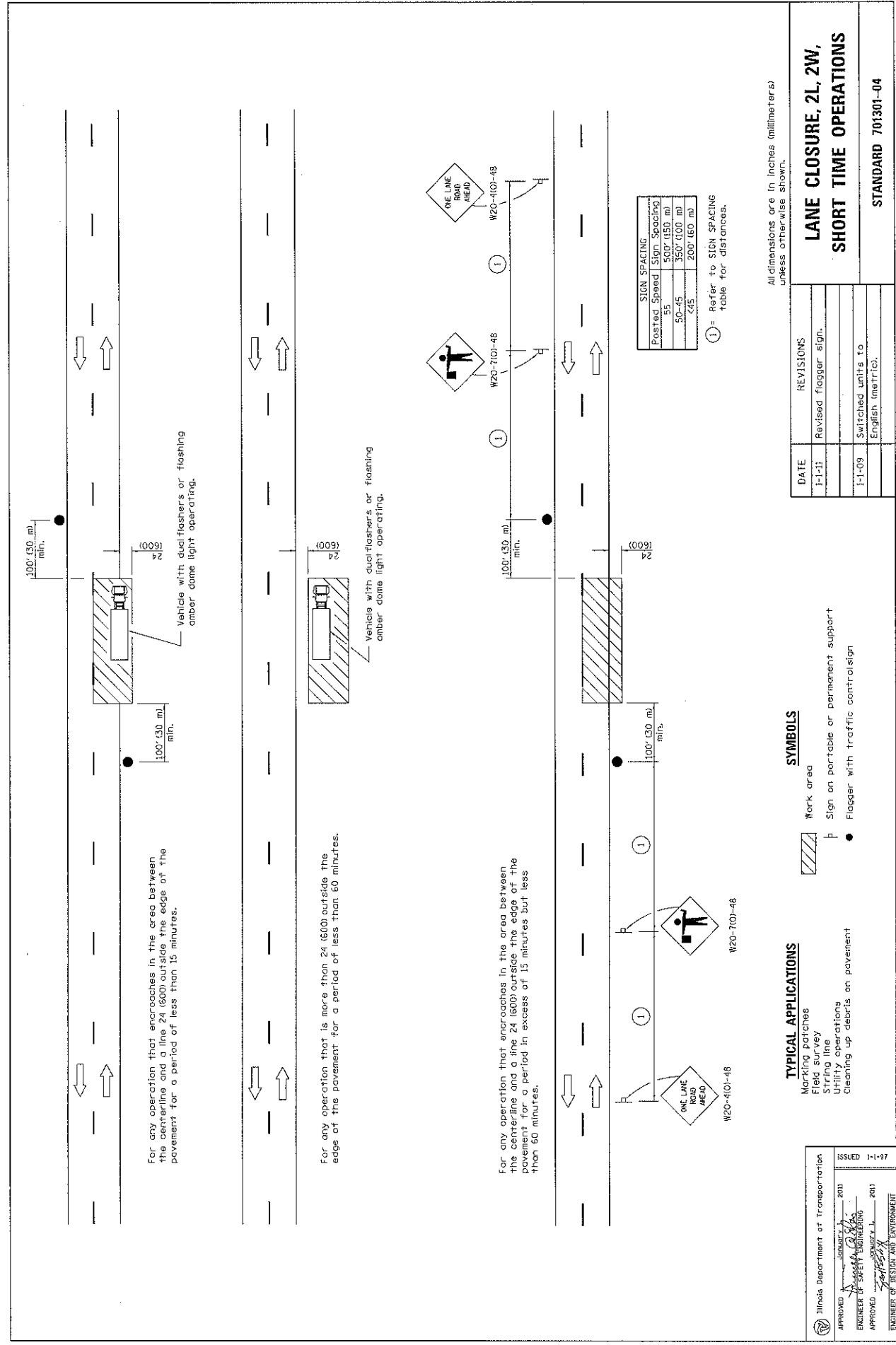
SECTION A-A

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

**FRAME AND GRATE
 TYPE 3
 STANDARD 604006-05**

DATE	REVISIONS
1-1-15	Revised dimensions of frame and alternate curb box.
1-1-09	Switched units to English/metric.

PASSED January 1, 2015 ENGINEER OF POLICE AND PROCEDURES APPROVED January 1, 2015 ENGINEER OF DESIGN AND ENVIRONMENT	Illinois Department of Transportation ISSUED 1-1-97
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For dry operation that encroaches in the area between the centerline and a line 24 (600) outside the edge of the pavement for a period of less than 15 minutes.

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

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

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

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

STANDARD 701301-04

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

SYMBOLS

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

TYPICAL APPLICATIONS

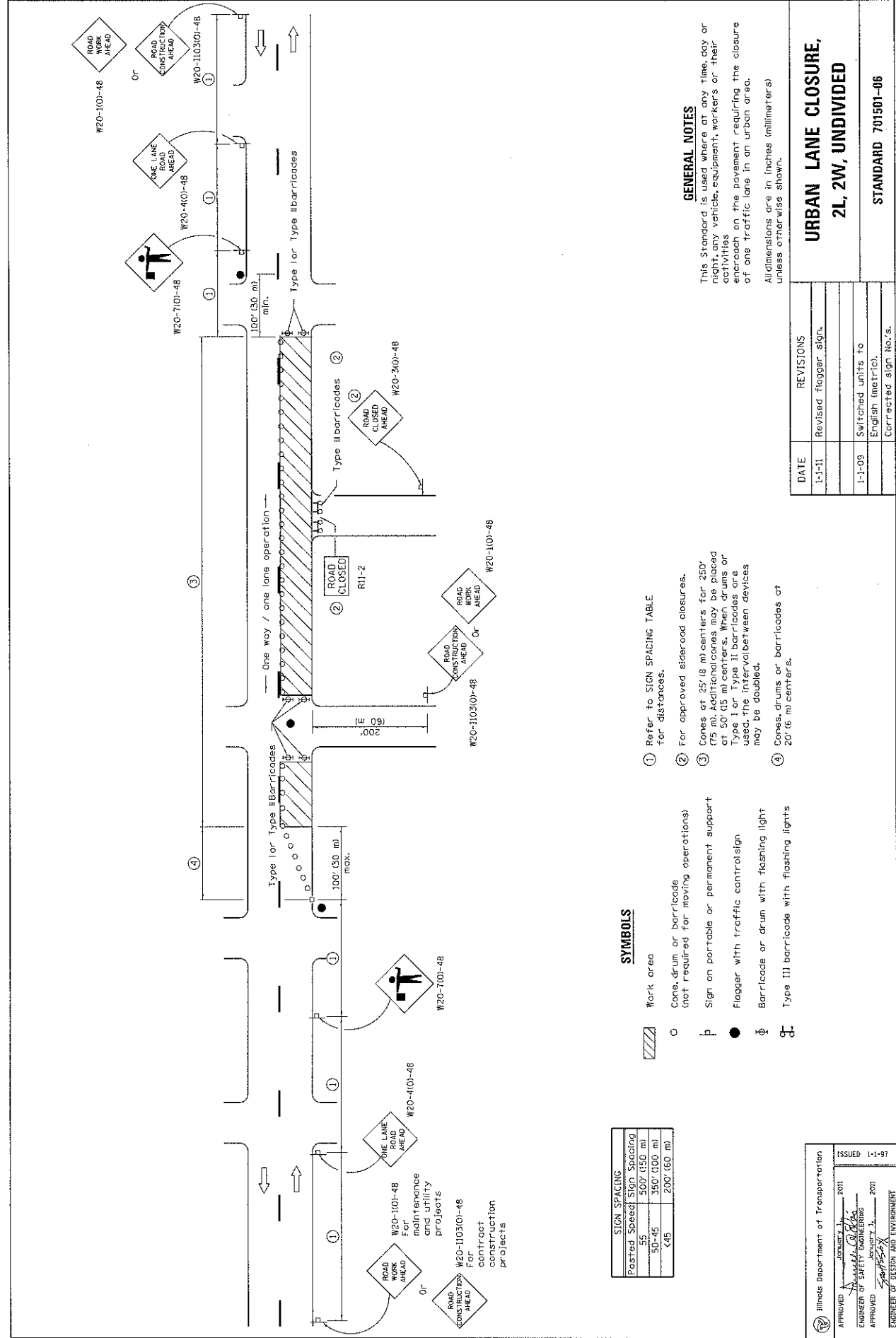
- Marking patches
- Field survey
- String line
- Utility operations
- Cleaning up debris on pavement

Illinois Department of Transportation

APPROVED: *[Signature]* January 1, 2011
 ENGINEER OF SAFETY ENGINEERING

ISSUED: 1-1-97

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



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.

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

STANDARD 701501-06

- 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

SYMBOLS

- ① Refer to SIGN SPACING TABLE for distances.
- ② For approved siteroad 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.

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

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

Illinois Department of Transportation

APPROVED *[Signature]* January 3, 2011
 ENGINEER OF SAFETY ENGINEERING

ISSUED 1-1-97

APPROVED *[Signature]* January 3, 2011
 ENGINEER OF DESIGN AND ENVIRONMENT

W20-101-48 For maintenance and utility projects
 Or
 ROAD WORK AHEAD

W20-103101-48 For contract construction projects
 Or
 ROAD CONSTRUCTION AHEAD

W20-4101-48
 Or
 ROAD CLOSED

W20-101-48
 Or
 ROAD CLOSED AHEAD

W20-101-48 For maintenance and utility projects
 Or
 ROAD WORK AHEAD

W20-103101-48 For contract construction projects
 Or
 ROAD CONSTRUCTION AHEAD

W20-101-48
 Or
 ROAD CLOSED

W20-103101-48
 Or
 ROAD CONSTRUCTION AHEAD

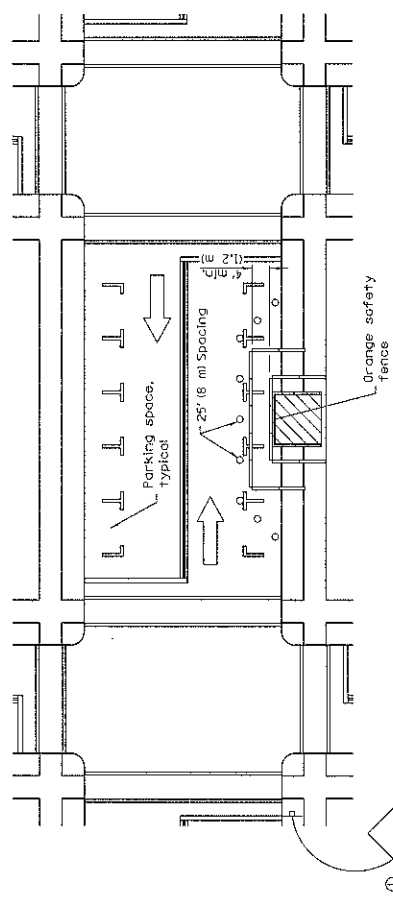
W20-101-48
 Or
 ROAD CLOSED AHEAD

W20-3101-48
 Or
 ROAD CLOSED AHEAD

W20-103101-48
 Or
 ROAD CONSTRUCTION AHEAD

W20-101-48
 Or
 ROAD WORK AHEAD

① Omit whenever duplicated by road work traffic control.

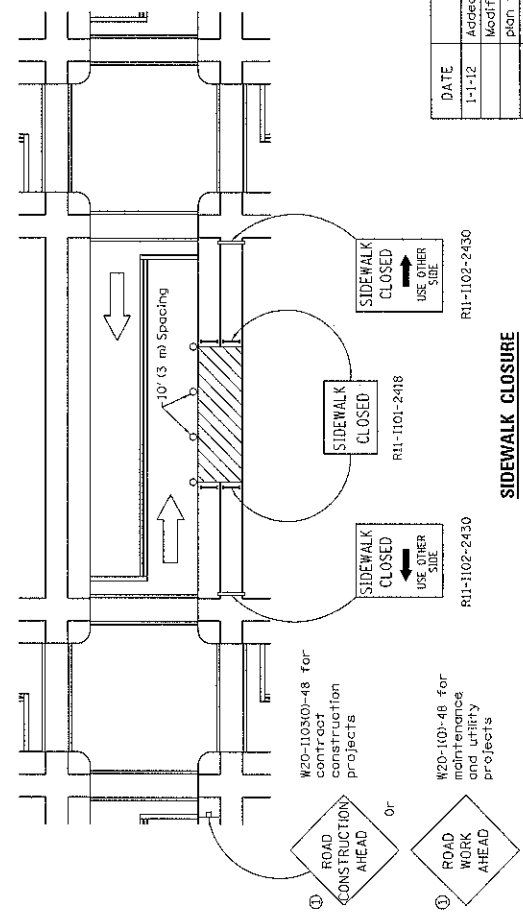


① W20-110300-48 for contract construction projects

or

① W20-110-48 for maintenance and utility projects

SIDEWALK DIVERSION



① W20-110300-48 for contract construction projects

or

① W20-110-48 for maintenance and utility projects

SIDEWALK CLOSURE

- SYMBOLS**
- Work area
 - Sign on portable or permanent support
 - Barricade or drum
 - Cone, drum, or barricade
 - Type III barricade
 - Detectable pedestrian channelizing barricade

GENERAL NOTES

This Standard is used where, at any time, pedestrian traffic must be rerouted due to work being performed.

This Standard must be used in conjunction with other Traffic Control & Protection Standards when roadway traffic is affected.

Temporary facilities shall be detectable and accessible.

The temporary pedestrian facilities shall be provided on the same side of the closed facilities whenever possible.

The SIDEWALK CLOSED / USE OTHER SIDE sign shall be placed at the nearest crosswalk intersection to each end of the closure. Where the closure occurs at a corner, the signs shall be erected on the corners across the street from the closure. The SIDEWALK CLOSED signs shall be used at the ends of the actual closures.

Type III barricades and R11-2-4830 signs shall be positioned as shown in "ROAD CLOSED TO ALL TRAFFIC" detail Standard 701501.

Dimensions are in inches (millimeters) unless otherwise shown.

DATE	REVISIONS
1-1-12	Added SIDEWALK DIVERSION. Modified appearance of plan views. Renamed Std.
1-1-09	Switched units to English (metric). 702001 to 701501.

SIDEWALK, CORNER OR CROSSWALK CLOSURE

STANDARD 701801-05

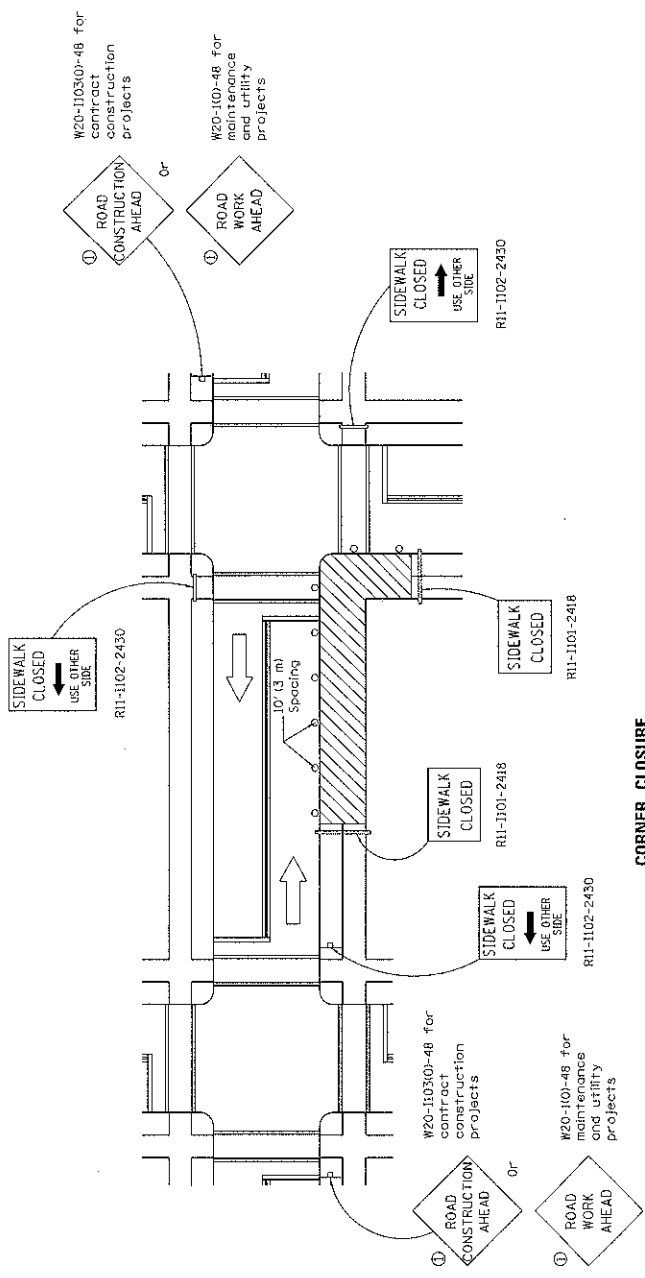
(Sheet 1 of 2)

Illinois Department of Transportation

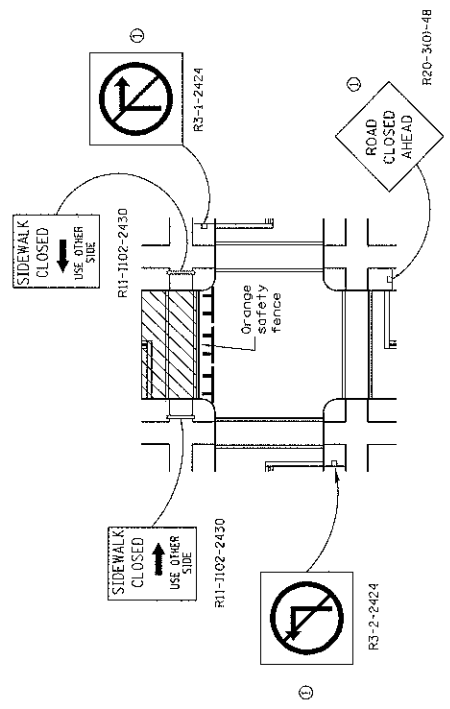
APPROVED: *[Signature]* January 1, 2012
 ENGINEER OF SAFETY ENGINEERING

APPROVED: *[Signature]* January 1, 2012
 ENGINEER OF DESIGN AND ENVIRONMENT

ISSUED 1-1-97



CORNER CLOSURE



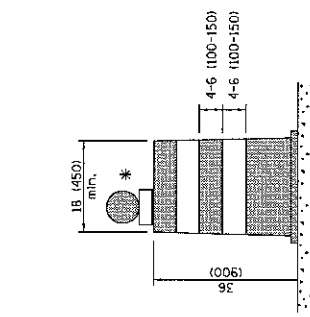
CROSSWALK CLOSURE

SIDEWALK, CORNER OR CROSSWALK CLOSURE

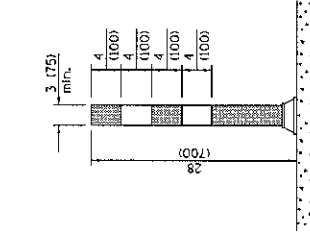
(Sheet 2 of 2)

STANDARD 701801-05

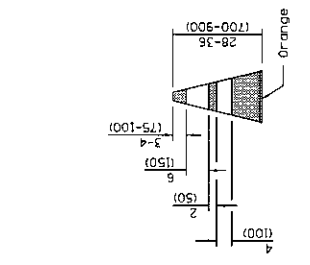
	ISSUED	1-1-97
	APPROVED	January 1, 2012
	ENGINEER OF SAFETY ENGINEERING APPROVED January 1, 2012 ENGINEER OF DESIGN AND ENVIRONMENT	



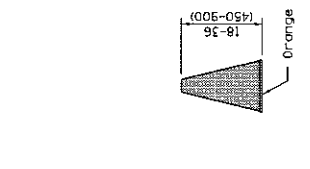
VERTICAL PANEL
POST MOUNTED



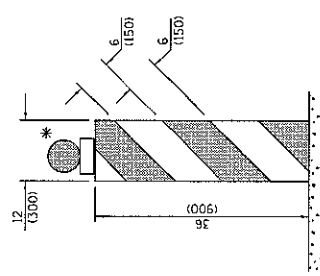
FLEXIBLE DELINEATOR



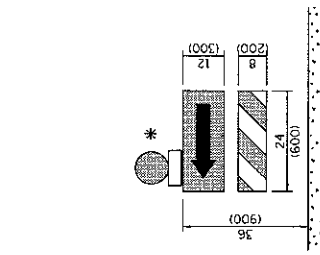
REFLECTORIZED CONE



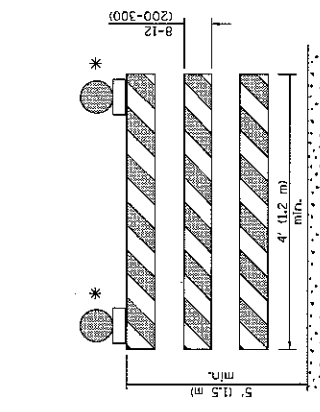
CONE



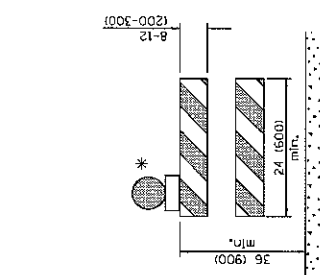
VERTICAL BARRICADE



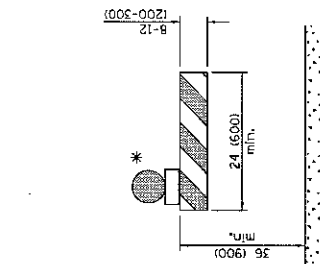
DIRECTION INDICATOR BARRICADE



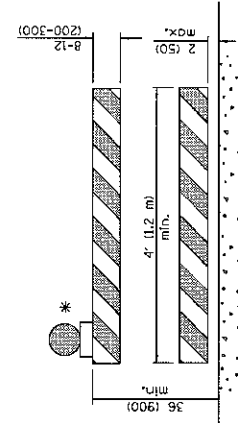
TYPE III BARRICADE



TYPE II BARRICADE



TYPE I BARRICADE



DETECTABLE PEDESTRIAN CHANNELIZING BARRICADE

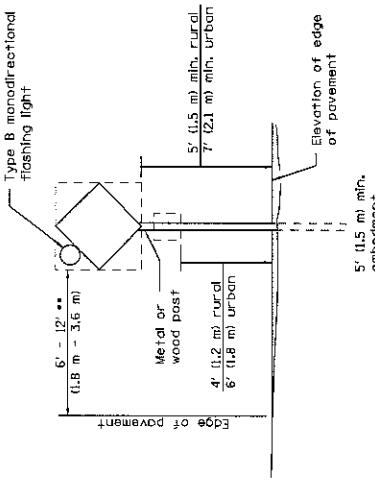
* Warning lights (if required)

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

DATE	REVISIONS
1-1-15	Revised two sign numbers on sheet 2. Added note req. PHOTO ENFORCED plaque.
1-1-14	Modified flagger sign height. Added highway construction speed zone signs.

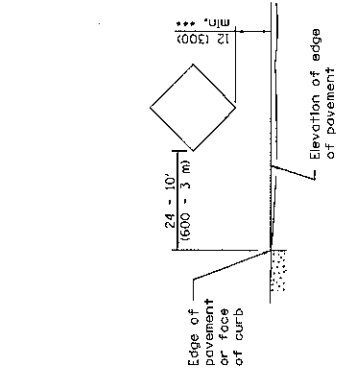
TRAFFIC CONTROL DEVICES
STANDARD 701901-04
(Sheet 1 of 3)

Illinois Department of Transportation	ISSUED 1-1-15
APPROVED January 1, 2015	
ENGINEER OF DESIGN	
APPROVED January 1, 2015	
ENGINEER OF DESIGN AND ENVIRONMENT	



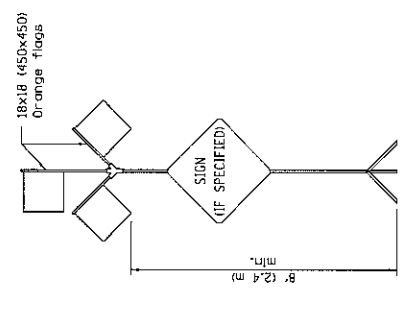
POST MOUNTED SIGNS

** 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 completely above the devices.



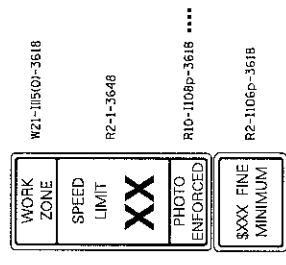
HIGH LEVEL WARNING DEVICE

ROAD CONSTRUCTION NEXT X MILES
G20-110410)-6035

END CONSTRUCTION
G20-110510)-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



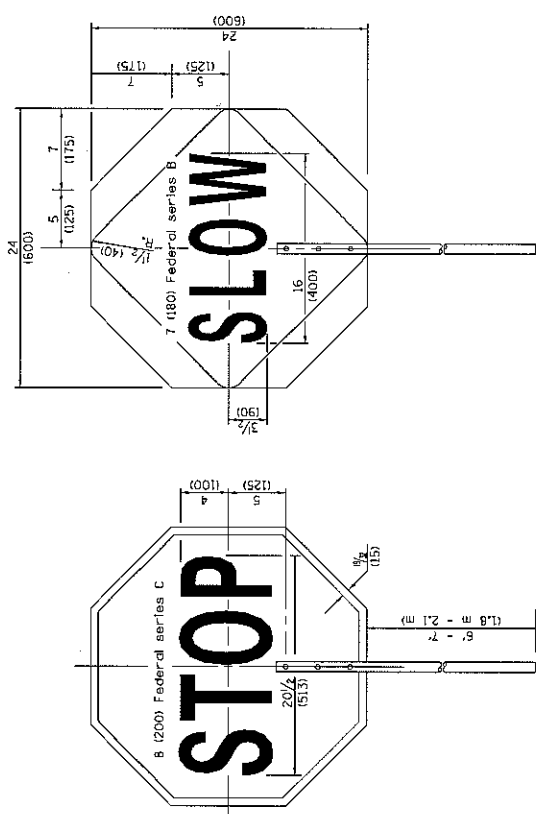
Sign assembly as shown on Standards or as allowed by District Operations.

END WORK ZONE SPEED LIMIT
G20-110310)-6036

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

HIGHWAY CONSTRUCTION SPEED ZONE SIGNS

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



FLAGGER TRAFFIC CONTROL SIGN

REVERSE SIDE

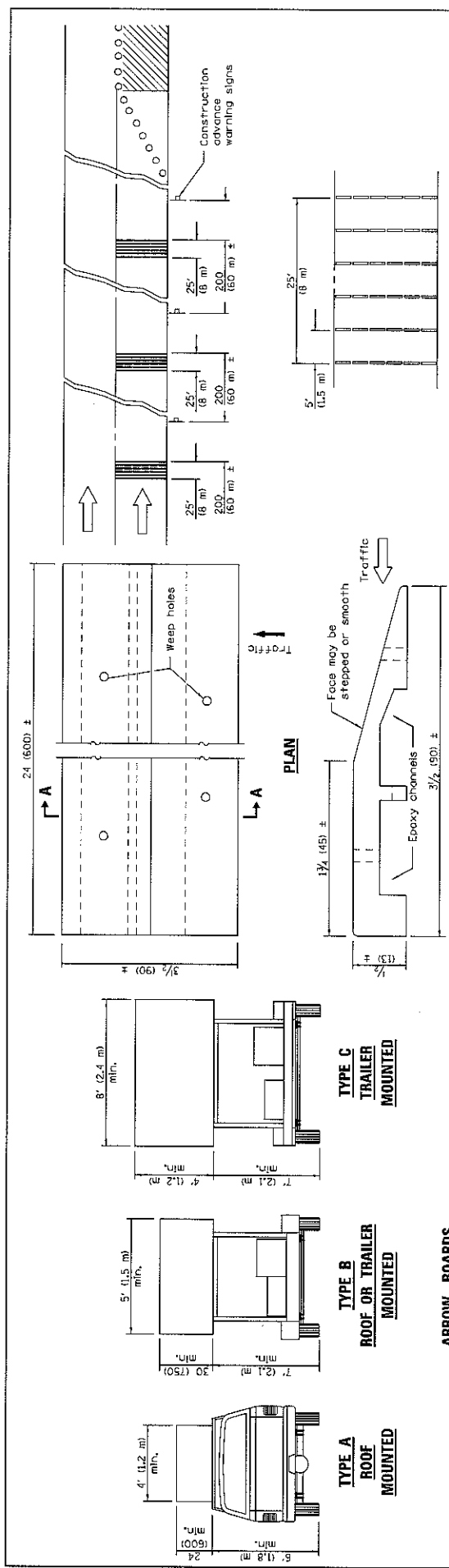
FRONT SIDE

TRAFFIC CONTROL DEVICES

(Sheet 2 of 3)

STANDARD 701901-04

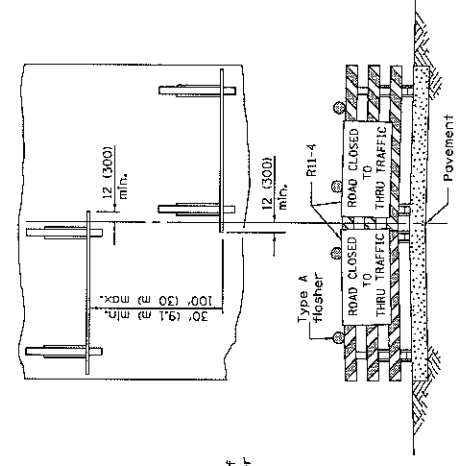
Illinois Department of Transportation
 APPROVED: [Signature] January 1, 2015
 ENGINEER OF OPERATIONS
 APPROVED: [Signature] January 1, 2015
 ENGINEER OF DESIGN AND ENVIRONMENT
 ISSUED 1-1-97



TYPICAL INSTALLATION

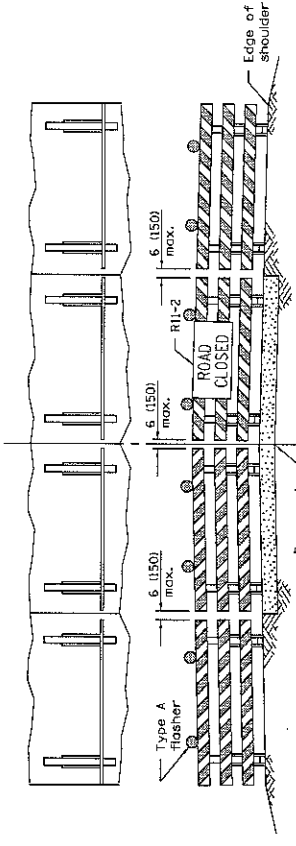
TEMPORARY RUMBLE STRIPS

SECTION A-A



ROAD CLOSED TO THRU TRAFFIC
 ReflectORIZED striping shall appear on both sides of the barricades. If a Type III barricade with an attached sign panel meets NCHRP 350 IS criteria, the sign panel may be mounted on NCHRP 350 temporary sign supports directly in front of the barricade.

TYPICAL APPLICATIONS OF TYPE III BARRICADES CLOSING A ROAD

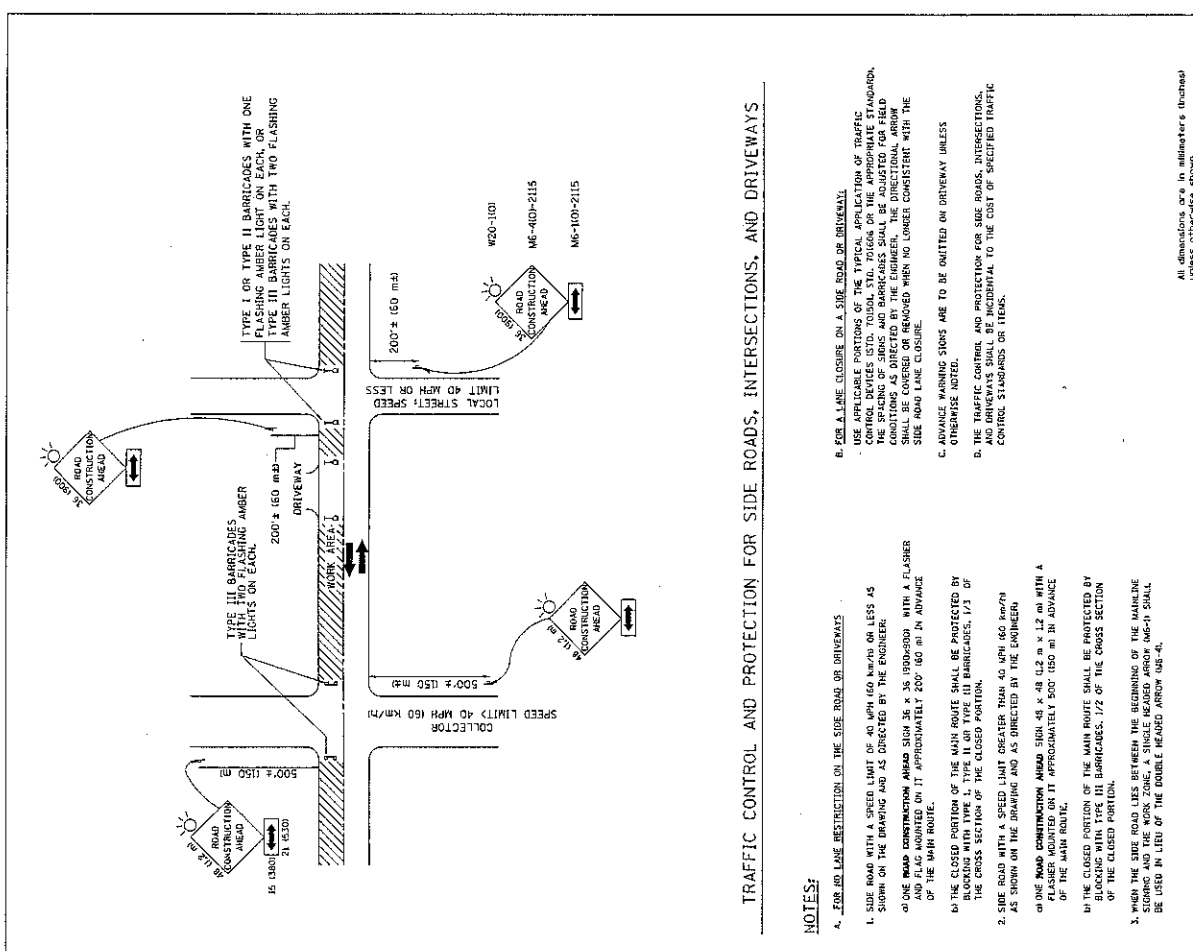


ReflectORIZED striping may be omitted on the back side of the barricades. If a Type III barricade with an attached sign panel which meets NCHRP 350 is available, the sign may be mounted on an NCHRP 350 temporary sign support directly in front of the barricade.

Illinois Department of Transportation
 APPROVED January 1, 2015
 ENGINEER OF OPERATIONS
 APPROVED January 1, 2015
 ENGINEER OF DESIGN AND ENVIRONMENT
 ISSUED 1-1-97

TRAFFIC CONTROL DEVICES

STANDARD 701901-04
 (Sheet 3 of 3)



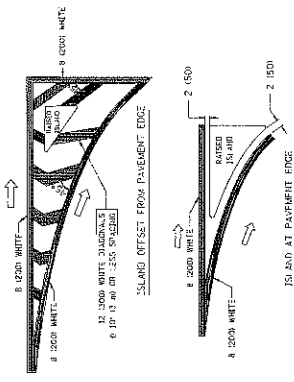
TRAFFIC CONTROL AND PROTECTION FOR SIDE ROADS, INTERSECTIONS, AND DRIVEWAYS

NOTES:

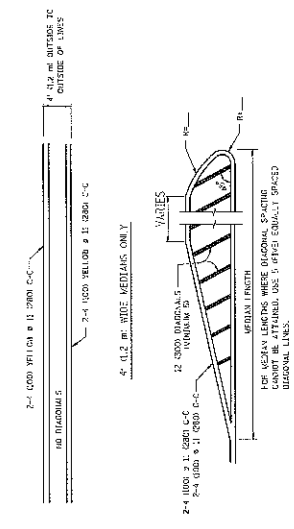
1. FOR A LANE RESTRICTION ON THE SIDE ROAD OR DRIVEWAYS
 - a) SIDE ROAD WITH A SPEED LIMIT OF 40 MPH (60 km/h) OR LESS AS SHOWN ON THE DRAWING AND AS DIRECTED BY THE ENGINEER.
 - o ONE ROAD CONSTRUCTION AHEAD SIGN 36 X 36 (900x900) WITH A FLASHER AND FLAG MOUNTED ON IT APPROXIMATELY 200' (60 m) IN ADVANCE OF THE MAIN ROUTE.
 - o THE CLOSED PORTION OF THE MAIN ROUTE SHALL BE PROTECTED BY BLOCKING WITH TYPE I, TYPE II OR TYPE III BARRICADES, 1/3 OF THE CROSS SECTION OF THE CLOSED PORTION.
 - b) SIDE ROAD WITH A SPEED LIMIT GREATER THAN 40 MPH (60 km/h) AS SHOWN ON THE DRAWING AND AS DIRECTED BY THE ENGINEER
 - o ONE ROAD CONSTRUCTION AHEAD SIGN 48 X 48 (120 x 120) WITH A FLASHER MOUNTED ON IT APPROXIMATELY 500' (150 m) IN ADVANCE OF THE MAIN ROUTE.
 - o THE CLOSED PORTION OF THE MAIN ROUTE SHALL BE PROTECTED BY BLOCKING WITH TYPE III BARRICADES, 1/2 OF THE CROSS SECTION OF THE CLOSED PORTION.
 2. WHEN THE SIDE ROAD LIES BETWEEN THE BEGINNING OF THE MAIN ROUTE SIGNS AND THE WORK ZONE, A SINGLE HEADED ARROW SIGN SHALL BE USED IN LIEU OF THE DOUBLE HEADED ARROW SIGN.
3. ADVANCE WARNING SIGNS ARE TO BE OMITTED ON DRIVEWAY UNLESS OTHERWISE NOTED.
 4. THE TRAFFIC CONTROL AND PROTECTION FOR SIDE ROADS, INTERSECTIONS, AND DRIVEWAYS SHALL BE SUBJECT TO THE COST OF SPECIFIED TRAFFIC CONTROL STANDARDS OR ITEMS.
5. FOR A LANE CLOSURE ON A SIDE ROAD OR DRIVEWAY
 - o USE APPLICABLE PORTIONS OF THE TYPICAL APPLICATION OF TRAFFIC CONTROL DEVICES (STD. T0004), STD. T0064 OR THE APPROPRIATE STANDARD. THE SPACING OF SIGNS AND BARRICADES SHALL BE ADJUSTED FOR FIELD CONDITIONS.
 - o SIGNS SHALL BE COVERED OR REMOVED WHEN NO LANE IS CONSISTENT WITH THE SIDE ROAD LANE CLOSURE.

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

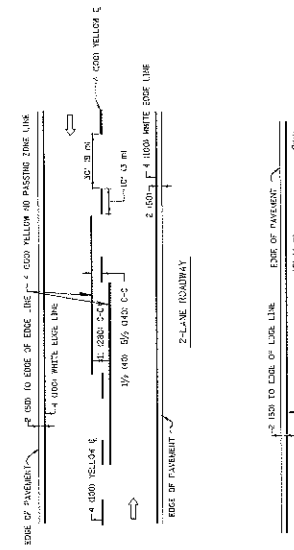
FILE NO.	DESIGNED - L.M.	REVISION	DATE
PROJECT NO.	DRAWN - A. ROUSEH	REVISION	DATE
CLIENT NAME	CHECKED - A. ROUSEH	REVISION	DATE
PROJECT NAME	DATE	REVISION	DATE
STATE OF ILLINOIS	TRAFFIC CONTROL AND PROTECTION FOR		
DEPARTMENT OF TRANSPORTATION	SIDE ROADS, INTERSECTIONS, AND DRIVEWAYS		
SCALE: NONE	SHEET NO. 1 OF 1	SHEETS	STA. TO STA.
SECTION	CONTRACT NO.	TOTAL SHEETS	
SECTION	CONTRACT NO.	TOTAL SHEETS	



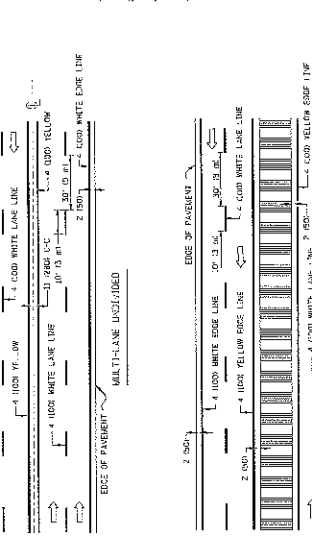
TYPICAL ISLAND MARKING



TYPICAL PAINTED MEDIAN MARKING



TYPICAL LANE AND EDGE LINE MARKING



TYPICAL CROSSWALK MARKING

TYPE OF MARKING	WIDTH OF LINE	PATTERN	COLOR	SPACING / REMARKS
SPACED LINE ON 2 LANE PAVEMENT	2 x 4' 0\"/>			
NO PARKING ZONE LINES FOR ONE DIRECTION FOR BOTH DIRECTIONS	4' 0\"/>			
LANE LINES	4' 0\"/>			
DOUBLE LINES AT CENTER, LANE OR TURN LANE MARKINGS	4' 0\"/>			
LANE LANE MARKINGS	4' 0\"/>			
TWO WAY LEFT TURN MARKING	2 x 4' 0\"/>			
CROSSWALK LINES PERPENDICULAR TO LEGITIMIAL BARS (SCHOOL STOP LINES)	4' 0\"/>			
STOP LINES	24' 0\"/>			
PAINTED MEDIANS	2' x 4' 0\"/>			
EDGE MARKING AND SUBSTRUCTURE LINES	8' 0\"/>			
BIKEWAYS CROSSING	24' 0\"/>			
SHOULDER DIAGONALS	12' 0\"/>			

ALL DIMENSIONS ARE IN INCHES UNLESS OTHERWISE INDICATED.

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

FILE NO.:	DESIGNED BY:	ENGR.:	REVISION:	DATE:
PROJECT NO.:	DATE:	DATE:	DATE:	DATE:

DISTRICT ONE	COUNTY:	SHEET NO.:	TOTAL SHEETS:
TYPICAL PAVEMENT MARKINGS	TC-13	134	134

2015 RESURFACING (A)
SCHEDULE OF QUANTITIES

STREET	FROM	TO	LENGTH (FT)	WIDTH (FT)	TOT. IMP. AREA (SY)	HMA SURF. CSE. MIX D (TON)	MIN. THICKNESS (IN)	LEVEL BIND (TON)
40TH ST	W. OF MORTON	E. OF SEELEY	1245	20-21	3194	268	1.50	134
41ST ST	SARATOGA AVE	MAIN ST	960	22-28	3130	263	1.50	131
AUBREY TERRACE	MAPLE AVE	S. CUL DE SAC	1482	18-21	3939	331	1.50	165
BIRCH AVE	WASHINGTON ST	ELM ST	636	19	1414	119	1.50	99
BRYAN PL	PRAIRIE AVE	ROGERS ST	1289	22	3201	269	1.50	224
CAROL ST	LACEY RD	LEE ST	501	21	1287	108	1.50	54
CORNELL AVE	S. OF CURTISS ST	GILBERT AVE	1702	15-23	4122	346	1.50	173
CURTISS ST	BELMONT RD	CORNELL AVE	1994	23	5587	469	1.50	235
DOWNERS DR	OGDEN AVE	HERBERT ST	2692	20-34	6962	585	1.50	292
FOREST AVE	HAVENS CT	41ST ST	526	22	1471	124	1.50	62
FRANKLIN ST	MAIN ST	WASHINGTON ST	928	24	2593	218	1.50	182
GLENVIEW AVE	CURTISS ST	HITCHCOCK ST	583	18-21	1447	122	1.50	61
HAVENS CT	FOREST AVE	MAIN ST	251	30	857	72	1.50	36
HERBERT ST	W. OF MORTON AVE	E. OF SEELEY AVE	1274	19-21	3165	266	1.50	133
HIGHLAND AVE	ROGERS ST	PRAIRIE AVE	1242	24-25	3394	285	1.50	285
HITCHCOCK AVE	BELMONT RD	CORNELL AVE	1956	20-22	5048	424	1.50	254
JANET ST	LACEY RD	BELLE AIRE LN	2260	20-22	5944	499	1.50	250
LEE AVE	OGDEN AVE	N. OF VIRGINIA ST	1506	18-21	3739	314	1.50	157
LINCOLN ST	MAIN ST	WASHINGTON ST	934	24	2651	223	1.50	186
MORTON AVE	40TH ST	HERBERT ST	849	18-20	2134	179	1.50	90
NORTHCOTT AVE	JANET ST	40TH ST	1265	19-22	3272	275	1.50	137
OTIS AVE	DOUGLAS RD	FAIRVIEW AVE	750	28	2394	201	1.50	101
PLYMOUTH ST	S. OF JEFFERSON AVE	MAPLE AVE	1884	18-21	4496	378	1.50	189
SEELEY AVE	40TH ST	HERBERT ST	847	20-22	2227	187	1.50	94
THORNWOOD DR	PLYMOUTH RD	DUNHAM RD	1419	18	3020	254	1.50	254
VIRGINIA ST	LEE ST	BELLE AIRE LN	1309	19-21	3409	286	1.50	143
Totals>			32284		84097	7065		4121

Miles> 6.11

SCHEDULE OF QUANTITIES

2015 RESURFACING (A)
SCHEDULE OF QUANTITIES

STREET	AVG. THICKNESS (IN)	BIT. PRIME (LB)	CL D, Ty 4 4" (SY)	CL D, Special 4" (SY)	CL D, Ty 4 6" (SY)	CL D, Special 6" (SY)	PAVE REM & HMA REPL 8" (SY)	PAVE REM & PCC REPL 8" (SY)	PGE SPECIAL (CY)
40TH ST	0.75	2587	993	29					10
41ST ST	0.75	2535	480	45	150				
AUBREY TERRACE	0.75	3191	910	57					5
BIRCH AVE	1.25	1145					80		10
BRYAN PL	1.25	2593					160	100	40
CAROL ST	0.75	1042	133			130			
CORNELL AVE	0.75	3339	468	35	143				50
CURTISS ST	0.75	4525	1182		200				25
DOWNERS DR	0.75	5639	1700		356		120		
FOREST AVE	0.75	1192	207	58					
FRANKLIN ST	1.25	2100					84	100	10
GLENVIEW AVE	0.75	1172	578						10
HAVENS CT	0.75	694					22		
HERBERT ST	0.75	2564	893						
HIGHLAND AVE	1.50	2749					272		
HITCHCOCK AVE	0.90	4089	2100						15
JANET ST	0.75	4815	2574		225				15
LEE AVE	0.75	3029	1000	33		78		184	7
LINCOLN ST	1.25	2147							
MORTON AVE	0.75	1729	930						25
NORTHCOTT AVE	0.75	2660	950	57		100			
OTIS AVE	0.75	1939	370	30					
PLYMOUTH ST	0.75	3642	1576	33					
SEELEY AVE	0.75	1804	842						
THORNWOOD DR	1.50	2446					180		15
VIRGINIA ST	0.75	2761	1187	37					
		68118	19073	414	1074	308	918	384	237

SCHEDULE OF QUANTITIES

2015 RESURFACING (A)
SCHEDULE OF QUANTITIES

STREET	HAUL SPECIAL WASTE (LOAD)	CURB REM. (LF)	C & G TY M-4.12 (LF)	C & G TY B-4.12 (LF)	C & G TY B-6.0 (LF)	C & G TY B-6.12 REINFORCE(LF)	C & G TY B-4.18 (LF)
40TH ST							
41ST ST		259				217	42
AUBREY TERRACE		15				15	
BIRCH AVE		190					
BRYAN PL		1074		1074			
CAROL ST							
CORNELL AVE	1						
CURTISS ST	1						
DOWNERS DR		212			112	100	
FOREST AVE							
FRANKLIN ST	1	365		60			
GLENVIEW AVE							
HAVENS CT		95			95		
HERBERT ST							
HIGHLAND AVE		1180					1000
HITCHCOCK AVE	1						
JANET ST							
LEE AVE							
LINCOLN ST		890			30		860
MORTON AVE							
NORTHCOTT AVE							
OTIS AVE		592		522			
PLYMOUTH ST							
SEELEY AVE							
THORNWOOD DR		10				10	
VIRGINIA ST							
	4	4882	522	1074	60	479	142
							1860

SCHEDULE OF QUANTITIES

2015 RESURFACING (A)
SCHEDULE OF QUANTITIES

STREET	C & G TY B-6.18 (LF)	M.H. ADJ. (EA)	M.H. ADJ. SPECIAL (EA)	M.H. ADJ. W/NEW TY 1 FR (EA)	M.H. RECON (EA)	IN. ADJ. (EA)	IN. ADJ. TY 3 SP FR (EA)	INLET RECON (EA)	NEW 2" IN. W/ SALVAGE (EA)
40TH ST									
41ST ST		1	3			1	1		
AUBREY TERRACE		3							
BIRCH AVE	190	1	2			1			
BRYAN PL		6	3		1	6			
CAROL ST		1							
CORNELL AVE		3	5			1			
CURTISS ST		4	9						
DOWNERS DR		1				1			
FOREST AVE		1							
FRANKLIN ST	305					1	2		
GLENVIEW AVE									
HAVENS CT						1			
HERBERT ST						1			
HIGHLAND AVE	180	5	1	1		6		1	
HITCHCOCK AVE		4	4						
JANET ST									
LEE AVE		1	1						
LINCOLN ST			1				3		1
MORTON AVE									
NORTHCOTT AVE									
OTIS AVE	70	4				1	2		
PLYMOUTH ST		6	5						
SEELEY AVE									
THORNWOOD DR		4	1			1			
VIRGINIA ST									
	745	45	35	1	1	24	5	1	1

SCHEDULE OF QUANTITIES

2015 RESURFACING (A)
SCHEDULE OF QUANTITIES

STREET	NEW 2' IN. W/ TY 1 FR. OL (EA)	NEW 4' MH W/ TY 1 FR (EA)	STORM SEWER 10" (LF)	INLET FILTERS (EA)	INLET FILTERS CLEANING (EA)	HMA SURF. REM. 2" (SY)	HMA SURF. REM. 2.5" (SY)	HMA SURF. REM. VARI 2"-4.5"(SY)
40TH ST						2877	317	
41ST ST						3130		
AUBREY TERRACE	1					3939		
BIRCH AVE								1414
BRYAN PL			20	2	2	1287		3328
CAROL ST								
CORNELL AVE				1	1	3310	812	
CURTISS ST						1370	4217	
DOWNERS DR						6206	756	
FOREST AVE						1471		
FRANKLIN ST	1							2593
GLENVIEW AVE						1062	385	
HAVENS CT						857		
HERBERT ST						2987	178	
HIGHLAND AVE								3394
HITCHCOCK AVE						5048		
JANET ST						5944		
LEE AVE						3739		
LINCOLN ST								2961
MORTON AVE						1657	477	
NORTHCOTT AVE						3272		
OTIS AVE						2394		
PLYMOUTH ST						4200	296	
SEELEY AVE						2227		
THORNWOOD DR				2	2			3020
VIRGINIA ST						3284	125	
	1	1	20	5	5	60261	7563	16710

SCHEDULE OF QUANTITIES

2015 RESURFACING (A)
SCHEDULE OF QUANTITIES

STREET	CR. JT. & FLAN (TON)	SIDEWALK REMOVE (SF)	SIDEWALK 5" (SF)	SIDEWALK 6" (SF)	SIDEWALK 8" (SF)	DETECTABLE WARNINGS (SF)	DÉCOR PAVER DRIVE (SY)	AGG. SHOULD (TON)	PKWY REST (SY)
40TH ST		350	350			40		66	50
41ST ST		775	675		100	40		31	223
AUBREY TERRACE								79	7
BIRCH AVE	4	875	825	50		40	3		200
BRYAN PL	8	2640	1775	670	150	30	5		750
CAROL ST								27	
CORNELL AVE		225	225			20		90	40
CURTISS ST								106	
DOWNERS DR	12	495	250		245			143	86
FOREST AVE								28	
FRANKLIN ST	5	1685	1685			120			334
GLENVIEW AVE		300	300			40		31	40
HAVENS CT								7	42
HERBERT ST		400	400			30		68	50
HIGHLAND AVE		200	75	125					96
HITCHCOCK AVE								104	
JANET ST		875	875			80	9	120	155
LEE AVE								80	
LINCOLN ST	6	2395	1785	610		100	26	45	1040
MORTON AVE								67	
NORTHCOTT AVE							3		
OTIS AVE		2585	1915	600		60			450
PLYMOUTH ST		825	825			60		100	75
SEELEY AVE								45	
THORNWOOD DR	8	1350	1350			120	9	75	120
VIRGINIA ST		250	250			30		69	32
	43	16225	13560	2055	495	810	55	1381	3790

SCHEDULE OF QUANTITIES

2015 RESURFACING (A)
SCHEDULE OF QUANTITIES

STREET	SUPPLEMENT WATER (UNIT)	TEMP HMA RAMP (SY)	ROOT PRUNE (EA)	HMA DRIVE REMOVE (SY)	HMA DRIVE 3" (SY)	HMA DRIVE 8" (SY)	PCC DRIVE REMOVE (SY)	PCC DRIVE 6" (SY)	PCC DRIVE 8" (SY)	SIGNAL LOOPS (LF)
40TH ST										
41ST ST				32		32				
AUBREY TERRACE										
BIRCH AVE	1			52	52		53	53		
BRYAN PL	1			91	50	41	313	313		
CAROL ST										
CORNELL AVE		5								
CURTISS ST		6								
DOWNERS DR				76		76				
FOREST AVE										
FRANKLIN ST							10		10	204
GLENVIEW AVE										
HAVENS CT										
HERBERT ST										
HIGHLAND AVE	1	44		46	46		46	46		
HITCHCOCK AVE		6								
JANET ST										
LEE AVE										
LINCOLN ST				151	151		151	151		
MORTON AVE										
NORTHCOTT AVE										
OTIS AVE	1			77	77		144	144		
PLYMOUTH ST		11								
SEELEY AVE										
THORNWOOD DR			1							
VIRGINIA ST										
	4	72	1	525	376	149	717	707	10	204

SCHEDULE OF QUANTITIES

2015 RESURFACING (A)
SCHEDULE OF QUANTITIES

STREET	SHORT TERM PAVE MARK		WORK ZONE MARK REM (SF)	YEL. PAVT. MARK. LINE 4" (LF)		WH. PAVT. MARK. LINE 4" (LF)		WH. PAVT. MARK. LINE 6" (LF)		WH. PAVT. MARK. LINE 12" (LF)	
	PAVE MARK (LF)	LET & SYM (SF)		LINE 4" (LF)	LINE 4" (LF)	LINE 6" (LF)	LINE 6" (LF)	LINE 12" (LF)	LINE 12" (LF)		
40TH ST											
41ST ST				100		100					14
AUBREY TERRACE											
BIRCH AVE											
BRYAN PL								46			
CAROL ST											
CORNELL AVE						390					
CURTISS ST						50					
DOWNERS DR	200	94	53	3370			100			48	
FOREST AVE											
FRANKLIN ST	114	47	30					50			63
GLENVIEW AVE											
HAVENS CT											
HERBERT ST											
HIGHLAND AVE											
HITCHCOCK AVE				80				114			96
JANET ST											
LEE AVE											
LINCOLN ST											
MORTON AVE								60			
NORTHCOTT AVE											
OTIS AVE											
PLYMOUTH ST											
SEELEY AVE											63
THORNWOOD DR											
VIRGINIA ST							73				
	314	141	83	4063			490	435		284	

SCHEDULE OF QUANTITIES

2015 RESURFACING (A)
SCHEDULE OF QUANTITIES

STREET	YEL. PAVT. MARK. LINE 12" (LF)	WH. PAVT. MARK. LINE 24" (LF)	PAVT. MARK. LET & SYM (SF)	EROSION BARRIER, SP (LF)
40TH ST				
41ST ST		44		
AUBREY TERRACE				
BIRCH AVE		10		
BRYAN PL		44		
CAROL ST				
CORNELL AVE				600
CURTISS ST				
DOWNERS DR		139	72.8	
FOREST AVE				
FRANKLIN ST		38	36.4	
GLENVIEW AVE				
HAVENS CT				
HERBERT ST				
HIGHLAND AVE		25		
HITCHCOCK AVE		12		
JANET ST				
LEE AVE		16		
LINCOLN ST		48		
MORTON AVE				
NORTHCOTT AVE				
OTIS AVE		14		
PLYMOUTH ST				
SEELEY AVE				
THORNWOOD DR	22			
VIRGINIA ST				
	22	390	109.2	600

SCHEDULE OF QUANTITIES

RETURN WITH BID

PROPOSAL

County	<u>DuPage</u>
Local Public Agency	<u>Downers Grove</u>
Section Number	<u>15-00000-01-GM</u>
Route	<u>Various</u>

1. Proposal of J.A. JOHNSON PAVING CO.
1025 E. ADDISON COURT; ARLINGTON HEIGHTS, IL 60005
 for the improvement of the above section by the construction of Pavement removal and replacement,
level binder, hot-mix asphalt surface course, curb and gutter removal and replacement
and all related work
 a total distance of 32284.00 feet, of which a distance of 32284.00 feet, (6.110 miles) are to be improved.
2. The plans for the proposed work are those prepared by Village of Downers Grove
 and approved by the Department of Transportation on _____
3. The specifications referred to herein are those prepared by the Department of Transportation and designated as "Standard Specifications for Road and Bridge Construction" and the "Supplemental Specifications and Recurring Special Provisions" thereto, adopted and in effect on the date of invitation for bids.
4. The undersigned agrees to accept, as part of the contract, the applicable Special Provisions indicated on the "Check Sheet for Recurring Special Provisions" contained in this proposal.
5. The undersigned agrees to complete the work within _____ working days or by 10/02/2015
 unless additional time is granted in accordance with the specifications.
6. A proposal guaranty in the proper amount, as specified in BLRS Special Provision for Bidding Requirements and Conditions for Contract Proposals, will be required. Bid Bonds will be allowed as a proposal guaranty. Accompanying this proposal is either a bid bond if allowed, on Department form BLR 12230 or a proposal guaranty check, complying with the specifications, made payable to:
Village of Downers Grove Treasurer of _____
 The amount of the check is Bid Bond (5%).
7. In the event that one proposal guaranty check is intended to cover two or more proposals, the amount must be equal to the sum of the proposal guaranties, which would be required for each individual proposal. If the proposal guaranty check is placed in another proposal, it will be found in the proposal for: Section Number _____
8. The successful bidder at the time of execution of the contract will be required to deposit a contract bond for the full amount of the award. When a contract bond is not required, the proposal guaranty check will be held in lieu thereof. If this proposal is accepted and the undersigned fails to execute a contract and contract bond as required, it is hereby agreed that the Bid Bond or check shall be forfeited to the Awarding Authority.
9. Each pay item should have a unit price and a total price. If no total price is shown or if there is a discrepancy between the product of the unit price multiplied by the quantity, the unit price shall govern. If a unit price is omitted, the total price will be divided by the quantity in order to establish a unit price.
10. A bid will be declared unacceptable if neither a unit price nor a total price is shown.
11. The undersigned submits herewith the schedule of prices on BLR 12200a covering the work to be performed under this contract.
12. The undersigned further agrees that if awarded the contract for the sections contained in the combinations on BLR 12200a, the work shall be in accordance with the requirements of each individual proposal for the multiple bid specified in the Schedule for Multiple Bids below.

RETURN WITH BID



**Illinois Department
of Transportation**

SCHEDULE OF PRICES

County DuPage
 Local Public Agency Village of Downers Grove
 Section 15-00000-01-GM
 Route Various

Schedule for Multiple Bids

Combination Letter	Sections Included in Combinations	Total

Schedule for Single Bid

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

Bidder's Proposal for making Entire Improvements	<u>2497116.88</u>
--	-------------------

Item No.	Items	Unit	Quantity	Unit Price	Total
1	Hot-Mix Asphalt Surface Course, Mix D, N50	Ton	7065	77.00	544005.00
2	Levelling Binder (Machine Method), N50	Ton	4121	77.00	317317.00
3	Bituminous Materials (Prime Coat)	LB	68118	0.01	681.18
4	Class D Patches, Type IV, 4"	S.Y.	19073	23.00	438679.00
5	Class D Patches, 4" Special	S.Y.	414	33.00	13662.00
6	Class D Patches, Type IV, 6"	S.Y.	1074	33.50	35979.00
7	Class D Patches, 6" Special	S.Y.	308	45.00	13860.00
8	Pavement Removal and Hot-Mix Asphalt Replacement, 8" Special	S.Y.	918	56.00	51408.00
9	Pavement Removal and Portland Cement Concrete Replacement, 8" Special	S.Y.	384	100.00	38400.00
10	Porous Granular Embankment, Special	C.Y.	237	115.00	27255.00
11	Additional Hauling Surcharge, Non-Hazardous Special Waste	Load	4	600.00	2400.00
12	Combination Concrete Curb and Gutter Removal	L.F.	4882	7.00	34174.00
13	Combination Concrete Curb and Gutter, Type M-4.12	L.F.	522	25.00	13050.00
14	Combination Concrete Curb and Gutter, Type B-4.12	L.F.	1074	24.00	25776.00
15	Combination Concrete Curb and Gutter, Type B-6.0	L.F.	60	20.00	1200.00
16	Combination Concrete Curb and Gutter, Type B-6.12	L.F.	479	24.00	11496.00

RETURN WITH BID

Bidder's Proposal for making Entire Improvements

2497116.88 ✓

Item No.	Items	Unit	Quantity	Unit Price	Total
17	Combination Concrete Curb and Gutter, Type B-6.12 Reinforced	L.F.	142	25.00	3550.00
18	Combination Concrete Curb and Gutter, Type B-4.18	L.F.	1860	30.00	55800.00
19	Combination Concrete Curb and Gutter, Type B-6.18	L.F.	745	32.00	23840.00
20	Manhole to be Adjusted	EA.	45	360.00	16200.00
21	Manhole to be Adjusted, Special	EA.	35	550.00	19250.00
22	Manhole to be Adjusted With New Type 1 Frame and Closed Lid	EA.	1	600.00	600.00
23	Manhole to be Reconstructed	EA.	1	1000.00	1000.00
24	Inlet to be Adjusted	EA.	24	300.00	7200.00
25	Inlet to be Adjusted With New Type 3 Frame and Grate, Special	EA.	5	650.00	3250.00
26	Inlet to be Reconstructed	EA.	1	700.00	700.00
27	Inlet, Type A, 24" With Salvaged Frame and Grate	EA.	1	1200.00	1200.00
28	Inlet, Type A, 24" With New Type 1 Frame and Grate	EA.	1	1400.00	1400.00
29	Manhole, Type A, 48" With New Type 1 Frame and Grate	EA.	1	4800.00	4800.00
30	Storm Sewer, Type 1, Ductile Iron Pipe, 10"	L.F.	20	150.00	3000.00
31	Inlet Filters	EA.	5	100.00	500.00
32	Inlet Filters Cleaning	EA.	5	40.00	200.00
33	Hot-Mix Asphalt Surface Removal, 2.0"	S.Y.	60261	2.00	120522.00
34	Hot-Mix Asphalt Surface Removal, 2.5"	S.Y.	7563	2.50	18907.50
35	Hot-Mix Asphalt Surface Removal, Variable Depth, 2.0" to 4.5"	S.Y.	16710	3.00	50130.00
36	Mixture For Cracks, Joints and Flangeways	Ton	43	350.00	15050.00
37	Portland Cement Concrete Sidewalk Removal	S.F.	16225	2.00	32450.00
38	Portland Cement Concrete Sidewalk, 5"	S.F.	13560	5.50	74580.00
39	Portland Cement Concrete Sidewalk, 6"	S.F.	2055	6.00	12330.00
40	Portland Cement Concrete Sidewalk, 8"	S.F.	495	7.00	3465.00
41	Detectable Warnings	S.F.	810	38.00	30780.00
42	Decorative Paver Driveway Removal and Replacement	S.Y.	55	125.00	6875.00
43	Aggregate Shoulders, Type B	Ton	1381	50.00	69050.00
44	Parkway Restoration	S.Y.	3790	8.00	30320.00
45	Supplemental Watering	Unit	4	80.00	320.00
46	Temporary Ramp, Hot-Mix Asphalt	S.Y.	72	25.00	1800.00
47	Tree Root Pruning	EA.	1	600.00	600.00

RETURN WITH BID

Bidder's Proposal for making Entire Improvements

2497116.88 ✓

Item No.	Items	Unit	Quantity	Unit Price	Total
48	Hot-Mix Asphalt Driveway Removal	S.Y.	525	1.00	525.00
49	Hot-Mix Asphalt Driveway Pavement, 3"	S.Y.	376	54.00	20304.00
50	Hot-Mix Asphalt Driveway Pavement, 8"	S.Y.	149	115.00	17135.00
51	Portland Cement Concrete Driveway Removal	S.Y.	717	18.00	12906.00
52	Portland Cement Concrete Driveway Pavement, 8"	S.Y.	707	58.00	41006.00
53	Portland Cement Concrete Driveway Pavement, 8"	S.Y.	10	68.00	680.00
54	Detector Loop, Type 1	L.F.	204	23.00	4692.00
55	Short Term Pavement Marking, 4"	L.F.	314	1.00	314.00
56	Temporary Pavement Marking, Letters and Symbols	S.F.	141	4.00	564.00
57	Work Zone Pavement Marking Removal	S.F.	83	10.00	830.00
58	Thermoplastic Pavement Marking Line, 4" Yellow	L.F.	4063	0.70	2844.10
59	Thermoplastic Pavement Marking Line, 4" White	L.F.	490	0.70	343.00
60	Thermoplastic Pavement Marking Line, 6" White	L.F.	435	1.20	522.00
61	Thermoplastic Pavement Marking Line, 12" White	L.F.	284	1.70	482.80
62	Thermoplastic Pavement Marking Line, 12" Yellow	L.F.	22	1.70	37.40
63	Thermoplastic Pavement Marking Line, 24" White	L.F.	390	3.50	1365.00
64	Thermoplastic Pavement Marking, Letters and Symbols	S.F.	109.2	3.25	354.90
65	Perimeter Erosion Barrier, Special	L.F.	600	10.00	6000.00
66	Erosion, Sedimentation and Dust Control	L.S.	1	5000.00	5000.00
67	Construction Staking	L.S.	1	5000.00	5000.00
68	Traffic Control, Maintenance of Traffic	L.S.	1	198000.00	198000.00

RETURN WITH BID

CONTRACTOR CERTIFICATIONS

County	<u>DuPage</u>
Local Public Agency	<u>Downers Grove</u>
Section Number	<u>15-00000-01-GM</u>
Route	<u>Various</u>

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

1. **Debt Delinquency.** The bidder or contractor or subcontractor, respectively, certifies that it is not delinquent in the payment of any tax administered by the Department of Revenue unless the individual or other entity is contesting, in accordance with the procedures established by the appropriate revenue Act, its liability for the tax or the amount of tax. Making a false statement voids the contract and allows the Department to recover all amounts paid to the individual or entity under the contract in a civil action.
2. **Bid-Rigging or Bid Rotating.** The bidder or contractor or subcontractor, respectively, certifies that it is not barred from contracting with the Department by reason of a violation of either 720 ILCS 5/33E-3 or 720 ILCS 5/33E-4.

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

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

3. **Bribery.** The bidder or contractor or subcontractor, respectively, certifies that it has not been convicted of bribery or attempting to bribe an officer or employee of the State of Illinois or any unit of local government, nor has the firm made an admission of guilt of such conduct which is a matter of record, nor has an official, agent, or employee of the firm committed bribery or attempted bribery on behalf of the firm and pursuant to the direction or authorization of a responsible official of the firm.
4. **Interim Suspension or Suspension.** The bidder or contractor or subcontractor, respectively, certifies that it is not currently under a suspension as defined in Subpart 1 of Title 44 Subtitle A Chapter III Part 6 of the Illinois Administrative Code. Furthermore, if suspended prior to completion of this work, the contract or contracts executed for the completion of this work may be cancelled.

RETURN WITH BID

SIGNATURES

County DuPage
 Local Public Agency Downers Grove
 Section Number 15-00000-01-GM
 Route Various

(If an individual)

Signature of Bidder _____

Business Address _____

(If a partnership)

Firm Name _____

Signed By _____

Business Address _____

Inset Names and Addressed of All Partners

} _____

(If a corporation)

Corporate Name J.A. JOHNSON PAVING CO.

Signed By *Dale A. Johnson* President

Business Address 1025 E. ADDISON COURT
ARLINGTON HEIGHTS, IL 60005

Inset Names of Officers

President DALE A. JOHNSON

Secretary MICHAEL R. TARPEY

Treasurer MICHAEL R. TARPEY

Attest: *Michael Tarpey*
Secretary / TREASURER



Illinois Department of Transportation

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

PAGE 1A

Affidavit of Availability
For the Letting of 4.21.15
(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	61A52 (RIDGELAND)	CON I-13-4166	CON I-11-4019	60P11	60Y62	
Contract With	IDOT	LORIG	LORIG	IDOT	IDOT	
Estimated Completion Date	8/15	5/16	5/15	7/15	7/15	
Total Contract Price	2,028,000.00	660,000.00	161,000.00	1,368,000.00	1,673,000.00	Accumulated Totals
Uncompleted Dollar Value if Firm is the Prime Contractor	1,005,000.00			1,368,000.00	1,673,000.00	4,046,000.00
Uncompleted Dollar Value if Firm is the Subcontractor		660,000.00	45,000.00			705,000.00
Total Value of All Work						4,751,000.00

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

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

						Accumulated Totals
Earthwork	3,000.00			10,000.00	20,000.00	33,000.00
Portland Cement Concrete Paving						0.00
HMA Plant Mix	501,000.00	608,000.00	45,000.00	942,000.00	742,000.00	2,838,000.00
HMA Paving						0.00
Clean & Seal Cracks/Joints						0.00
Aggregate Bases & Surfaces				4,000.00	77,000.00	81,000.00
Highway,R.R. and Waterway Structures						0.00
Drainage						0.00
Electrical						0.00
Cover and Seal Coats						0.00
Concrete Construction						0.00
Landscaping						0.00
Fencing						0.00
Guardrail						0.00
Painting						0.00
Signing						0.00
Cold Milling, Planning & Rotomilling	82,000.00	18,000.00		167,000.00	124,000.00	391,000.00
Demolition						0.00
Pavement Markings (Paint)						0.00
Other Construction (List) - patching	6,000.00	34,000.00		53,000.00	423,000.00	516,000.00
RAILROAD INSURANCE						0.00
						0.00
Totals	592,000.00	660,000.00	45,000.00	1,176,000.00	1,386,000.00	3,859,000.00

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

Part III. Work Subcontracted to Others

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

	1	2	3	4	5
Subcontractor	RULAS			HAWK	HAWK
Type of Work	CONCRETE			ELEC	ELEC
Subcontract Price	411,000.00			31,000.00	3,000.00
Amount Uncompleted	206,000.00			31,000.00	3,000.00
Subcontractor	WORK ZONE			RAI	HWY SFTY
Type of Work	TRAFF CONT			CONCRETE	TRAFF CONT
Subcontract Price	64,000.00			34,000.00	102,000.00
Amount Uncompleted	32,000.00			34,000.00	102,000.00
Subcontractor	NORRIDGE			MFD	MARK SPL
Type of Work	SEWER			SEWER	PVMT MARK
Subcontract Price	121,000.00			25,000.00	78,000.00
Amount Uncompleted	60,000.00			25,000.00	78,000.00
Subcontractor	SUPERIOR RD STRIPE			D2K	CSD
Type of Work	PVMT MARK			TRAFF & STRIPE	SPL WASTE
Subcontract Price	126,000.00			91,000.00	12,000.00
Amount Uncompleted	63,000.00			91,000.00	12,000.00
Subcontractor	TNT			TBD	ELITE
Type of Work	LNDSCPE			LNDSCPE	SAWING
Subcontract Price	19,000.00			7,000.00	92,000.00
Amount Uncompleted	9,000.00			7,000.00	92,000.00
Subcontractor	HOME TOWN			TBD	
Type of Work	ELEC			SEWER CLEAN	
Subcontract Price	86,000.00			4,000.00	
Amount Uncompleted	43,000.00			4,000.00	
Subcontractor	C3				
Type of Work	LAYOUT				
Subcontract Price	18,000.00				
Amount Uncompleted	0.00				
Total Uncompleted	413,000.00	0.00	0.00	192,000.00	287,000.00

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
 Officer or Director Title

 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

PAGE 2A
Affidavit of Availability
For the Letting of _____
(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.

	AWARD PENDING	7	8	9	10	
Contract Number	60Y55					
Contract With	IDOT					
Estimated Completion Date	8/15					
Total Contract Price	5,481,000.00					Accumulated Totals
Uncompleted Dollar Value if Firm is the Prime Contractor	5,481,000.00	0.00	0.00	0.00	0.00	9,527,000.00
Uncompleted Dollar Value if Firm is the Subcontractor						705,000.00
Total Value of All Work						10,232,000.00

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

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

						Accumulated Totals
Earthwork	4,000.00					37,000.00
Portland Cement Concrete Paving						0.00
HMA Plant Mix	3,688,000.00					6,526,000.00
HMA Paving						0.00
Clean & Seal Cracks/Joints						0.00
Aggregate Bases & Surfaces						81,000.00
Highway,R.R. and Waterway Structures						0.00
Drainage						0.00
Electrical						0.00
Cover and Seal Coats						0.00
Concrete Construction						0.00
Landscaping						0.00
Fencing						0.00
Guardrail						0.00
Painting						0.00
Signing						0.00
Cold Milling, Planning & Rotomilling	679,000.00					1,070,000.00
Demolition						0.00
Pavement Markings (Paint)						0.00
Other Construction (List) - patching	169,000.00					685,000.00
						0.00
						0.00
Totals	4,540,000.00	0.00	0.00	0.00	0.00	8,399,000.00

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

Part III. Work Subcontracted to Others

PAGE 2B

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

	6	7	8	9	10
Subcontractor	TBD				
Type of Work	TRAFF CONT				
Subcontract Price	186,000.00				
Amount Uncompleted	186,000.00				
Subcontractor	TBD				
Type of Work	CONCRETE				
Subcontract Price	290,000.00				
Amount Uncompleted	290,000.00				
Subcontractor	TBD				
Type of Work	SEWER				
Subcontract Price	171,000.00				
Amount Uncompleted	171,000.00				
Subcontractor	TBD				
Type of Work	PVMT MARK				
Subcontract Price	153,000.00				
Amount Uncompleted	153,000.00				
Subcontractor	TBD				
Type of Work	ELECTRIC				
Subcontract Price	117,000.00				
Amount Uncompleted	117,000.00				
Subcontractor	TBD				
Type of Work	SPL WASTE				
Subcontract Price	6,000.00				
Amount Uncompleted	6,000.00				
Subcontractor	TBD				
Type of Work	LNDSPE				
Subcontract Price	18,000.00				
Amount Uncompleted	18,000.00				
Total Uncompleted	941,000.00	0.00	0.00	0.00	0.00

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

Subscribed and sworn to before me

this 21st day of April, 2015.


Notary Public

My commission expires: 4/26/17

(Notary Seal)
OFFICIAL SEAL
PATRICIA A VICERE
NOTARY PUBLIC - STATE OF ILLINOIS
MY COMMISSION EXPIRES: 04/26/17

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

Signed 

Company J.A. JOHNSON PAVING CO

Address 1025 E. ADDISON COURT
ARLINGTON HEIGHTS, IL 60005



Illinois Department of Transportation

Local Agency Proposal Bid Bond

Route Various
County DuPage
Local Agency Village of Downers Grove
Section 15-00000-01-GM

RETURN WITH BID

PAPER BID BOND

WE J. A. Johnson Paving Company 1025 E. Addison Court, Arlington Heights, IL 60005 as PRINCIPAL,
and Fidelity and Deposit Company of Maryland 1400 American Lane, Tower I, 18th Floor, Schaumburg, IL 60196-1056 as SURETY.

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

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

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

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

IN TESTIMONY WHEREOF, the said PRINCIPAL and the said SURETY have caused this instrument to be signed by their respective officers this 21st day of April, 2015

Principal

J. A. Johnson Paving Company (Company Name)

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

(Company Name)

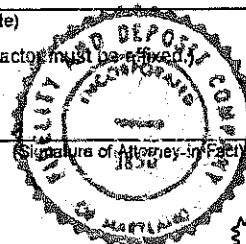
By: (Signature and Title)

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

Fidelity and Deposit Company of Maryland (Name of Surety)

Surety

By: William Reidinger (Signature and Title)



STATE OF Illinois
COUNTY OF DuPage

I, Rebecca R. Alves, 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 21st day of April, 2015

My commission expires June 27, 2016

Rebecca R. Alves (Notary Public)



ELECTRONIC BID

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

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

Electronic Bid Bond ID Code

(Company/Bidder Name)

(Signature and Title)

Date

Bond Number: Bid Bond

Obligee: Village of Downers Grove

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

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

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

IN WITNESS WHEREOF, the said Vice-President has hereunto subscribed his/her names and affixed the Corporate Seals of the said ZURICH AMERICAN INSURANCE COMPANY, COLONIAL AMERICAN CASUALTY AND SURETY COMPANY, and FIDELITY AND DEPOSIT COMPANY OF MARYLAND, this 17th day of May, A.D. 2012.

ATTEST:

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



By: Gerald F. Haley
Assistant Secretary
Gerald F. Haley

Geoffrey Delisio
Vice President
Geoffrey Delisio

State of Maryland
County of Baltimore

On this 17th day of May, A.D. 2012, before the subscriber, a Notary Public of the State of Maryland, duly commissioned and qualified, **Geoffrey Delisio, Vice President and Gerald F. Haley, 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 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 21st day of April, 2015.



Thomas O. McClellan

Thomas O. McClellan, Vice President



Illinois Department of Transportation

Apprenticeship or Training Program Certification

Return with Bid

Route	<u>Various</u>
County	<u>DuPage</u>
Local Agency	<u>Downers Grove</u>
Section	<u>15-00000-01-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:

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

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

J.A. JOHNSON PAVING CO...A/EQUIPMENT OPERATORS, LOCAL 150, B/TEAMSTERS, LOCAL 731, C/LABORERS, CHICAGOLAND AND VICINITY DISTRICT COUNCIL

SUBCONTRACTORS...A/EQUIPEMENT 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.

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 60005

By: 
(Signature)
Title: DALE A. JOHNSON, PRESIDENT

RETURN WITH BID



Illinois Department of Transportation

Affidavit of Illinois Business Office

County DuPage
Local Public Agency Downers Grove
Section Number 15-00000-01-GM
Route Various

State of ILLINOIS
County of COOK

I, DALE A. JOHNSON of ARLINGTON HEIGHTS, ILLINOIS
(Name of Affiant) (City of Affiant) (State of Affiant)

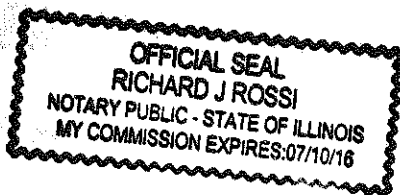
being first duly sworn upon oath, states as follows:

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

Signature of Dale A. Johnson
DALE A. JOHNSON, PRESIDENT
(Print Name of Affiant)

This instrument was acknowledged before me on 21ST day of APRIL, 2015

(SEAL)



Signature of Notary Public

2015 ROADWAY MAINTENANCE PROGRAM
STREETS ESTIMATED TO BE RESURFACED
STREET RESURFACING (PHASE I)

STREET	FROM	TO
40TH ST	W. OF MORTON	E. OF SEELEY
41ST ST	SARATOGA AVE	MAIN ST
AUBREY TERRACE	MAPLE AVE	S. CUL DE SAC
BIRCH AVE	WASHINGTON ST	ELM ST
BRYAN PL	PRAIRIE AVE	ROGERS ST
CAROL ST	LACEY RD	LEE ST
CORNELL AVE	S. OF CURTISS ST	GILBERT AVE
CURTISS ST	BELMONT RD	CORNELL AVE
DOWNERS DR	OGDEN AVE	HERBERT ST
FOREST AVE	HAVENS CT	41ST ST
FRANKLIN ST	MAIN ST	WASHINGTON ST
GLENVIEW AVE	CURTISS ST	HITCHCOCK ST
HAVENS CT	FOREST AVE	MAIN ST
HERBERT ST	W. OF MORTON AVE	E. OF SEELEY AVE
HIGHLAND AVE	ROGERS ST	PRAIRIE AVE
HITCHCOCK AVE	BELMONT RD	CORNELL AVE
JANET ST	LACEY RD	BELLE AIRE LN
LEE AVE	OGDEN AVE	N. OF VIRGINIA ST
LINCOLN ST	MAIN ST	WASHINGTON ST
MORTON AVE	40TH ST	HERBERT ST
NORTHCOTT AVE	JANET ST	40TH ST
OTIS AVE	DOUGLAS RD	FAIRVIEW AVE
PLYMOUTH ST	S. OF JEFFERSON AVE	MAPLE AVE
SEELEY AVE	40TH ST	HERBERT ST
THORNWOOD DR	PLYMOUTH RD	DUNHAM RD
VIRGINIA ST	LEE ST	BELLE AIRE LN

2015-2019 Capital Project Sheet

Project # **ST-004**

Project Description **Roadway Maintenance Program**

Project summary, justification and alignment to Strategic Plan

Capital and Motor Fuel Tax funds are used for ongoing annual maintenance of the Village's 160 miles of streets. Projects are designed to utilize various processes such as crack seals, pavement seals and resurfacing with new asphalt. The funding listed as 'Other/Miscellaneous' is for asphalt purchased and rental of equipment, such as a grinder to be used by Public Works Streets Division for various patching operations during the year.

Cost Summary	New Maintenance Replacement	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	Future Years	TOTAL
Professional Services		75,000	80,000	80,000	85,000	85,000		405,000
Land Acquisition								-
Infrastructure	X	2,765,000	4,470,000	4,560,000	4,650,000	4,750,000		21,195,000
Building								-
Machinery/Equipment								-
Other/Miscellaneous	X	115,000	120,000	120,000	125,000	125,000		605,000
TOTAL COST		2,955,000	4,670,000	4,760,000	4,860,000	4,960,000	-	22,205,000

Funding Source(s)		FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	Future Years	TOTAL
220-Capital Improvements Fund	▼	1,825,000	3,540,000	3,630,000	3,730,000	3,830,000		16,555,000
102-MFT	▼	1,130,000	1,130,000	1,130,000	1,130,000	1,130,000		5,650,000
	▼							-
	▼							-
TOTAL FUNDING SOURCES		2,955,000	4,670,000	4,760,000	4,860,000	4,960,000	-	22,205,000

Project status and completed work

Annual Program.

Grants (funded or applied for) related to the project.

Impact-annual operating expenses	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	Future Yrs	TOTAL
Projected Operating Expense Impact:							-

The maintenance scheduled will increase the life of the pavement. Deferral of work will significantly increase future maintenance costs.

Map/Pictures of Project



Priority Score **A**

Project Manager: **Scott Barr**

Program: **342** Department: **Public Works**