



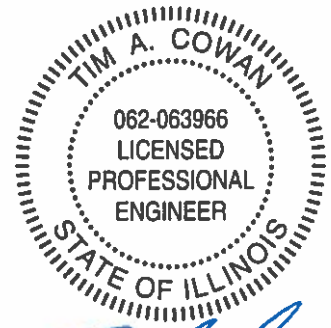
Lincoln and Springfield Resurfacing Project

17-00592-00-RS

April 26, 2021

City of Urbana

Department of Public Works



*Tim A. Cowan*  
4/26/21

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**SECTION A**

IDOT Proposal Forms



COVER SHEET

Proposal Submitted By:  
 Contractor's Name  
 \_\_\_\_\_  
 Contractor's Address \_\_\_\_\_ City \_\_\_\_\_ State \_\_\_\_\_ Zip Code \_\_\_\_\_

STATE OF ILLINOIS  
 Local Public Agency \_\_\_\_\_ County \_\_\_\_\_ Section Number \_\_\_\_\_  
 City of Urbana \_\_\_\_\_ Champaign \_\_\_\_\_ 17-00592-00-RS

Route(s) (Street/Road Name) \_\_\_\_\_ Type of Funds \_\_\_\_\_  
 Lincoln Avenue \_\_\_\_\_ State MFT

Proposal Only  Proposal and Plans  Proposal only, plans are separate

Submitted/Approved  
 For Local Public Agency:

**For a County and Road District Project**

Submitted/Approved

Highway Commissioner Signature \_\_\_\_\_ Date \_\_\_\_\_

Submitted/Approved

County Engineer/Superintendent of Highways \_\_\_\_\_ Date \_\_\_\_\_

**For a Municipal Project**

Submitted/Approved/Passed

Signature \_\_\_\_\_ Date \_\_\_\_\_  
*[Signature]* *4/26/21*

Official Title  
 Interim Public Works Director and City Engineer

**Department of Transportation**

Released for bid based on limited review

Regional Engineer Signature \_\_\_\_\_ Date \_\_\_\_\_  
*[Signature]* *042621*

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



Local Public Agency	County	Section Number	Route(s) (Street/Road Name)
City of Urbana	Champaign	17-00592-00-RS	Lincoln Avenue

**NOTICE TO BIDDERS**

Sealed proposals for the project described below will be received at the office of Director of Public Works  
Name of Office  
706 South Glover Avenue, Urbana IL 61802 until 2:00 pm on 06/10/21  
Address Time Date

Sealed proposals will be opened and read publicly at the office of Director of Public Works  
Name of Office  
706 South Glover Avenue, Urbana IL 61802 at 2:00 pm on 06/10/21  
Address Time Date

**DESCRIPTION OF WORK**

Location	Project Length
North of Green Street to South of University Avenue	0.36 miles

Proposed Improvement  
 Includes hot-mix asphalt surface removal and replacement, pavement patching, curb and gutter removal and replacement, sidewalk repair, and other miscellaneous work.

1. Plans and proposal forms will be available in the office of  
Director of Public Works - available on the City of Urbana's online system

2.  Prequalification  
 If checked, the 2 apparent as read low bidders must file within 24 hours after the letting an "Affidavit of Availability" (Form BC 57) in triplicate, showing all uncompleted contracts awarded to them and all low bids pending award for Federal, State, County, Municipal and private work. One original shall be filed with the Awarding Authority and two originals 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. Local Public Agency Formal Contract Proposal (BLR 12200)
  - b. Schedule of Prices (BLR 12201)
  - c. Proposal Bid Bond (BLR 12230) (if applicable)
  - d. Apprenticeship or Training Program Certification (BLR 12325) (do not use for project with Federal funds.)
  - e. Affidavit of Illinois Business Office (BLR 12326) (do not use for project with Federal funds)
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.

Local Public Agency	County	Section Number	Route(s) (Street/Road Name)
City of Urbana	Champaign	17-00592-00-RS	Lincoln Avenue

**PROPOSAL**

1. Proposal of \_\_\_\_\_  
Contractor's Name

\_\_\_\_\_  
Contractor's Address

2. The plans for the proposed work are those prepared by City of Urbana  
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 June 1, 2022 unless additional time is granted in accordance with the specifications.

6. 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 of check shall be forfeited to the Awarding Authority.

7. 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 products 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. A bid may be declared unacceptable if neither a unit price nor a total price is shown.

8. The undersigned submits herewith the schedule of prices on BLR 12201 covering the work to be performed under this contract.

9. The undersigned further agrees that if awarded the contract for the sections contained in the combinations on BLR 12201, 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.

10. 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: City Treasurer of City of Urbana.

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

**Attach Cashier's Check or Certified Check Here**

In the event that one proposal guaranty check is intended to cover two or more bid proposals, the amount must be equal to the sum of the proposal guaranties which would be required for each individual bid proposal. If the proposal guaranty check is placed in another bid proposal, state below where it may be found.

The proposal guaranty check will be found in the bid proposal for: Section Number 17-00592-00-RS.

Local Public Agency	County	Section Number	Route(s) (Street/Road Name)
City of Urbana	Champaign	17-00592-00-RS	Lincoln Avenue

## CONTRACTOR CERTIFICATIONS

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 procedure established by the appropriate Revenue Act, its liability for the tax or the amount of the 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: (1) it has been finally adjudicated not guilty or (2) if it demonstrates to the governmental entity with which it seeks to contract 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 on 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 of 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 on 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 or record, nor has an official, agent, or employee of the firm committed bribery or attempted bribery on behalf of the firm and pursuant to the direction or authorization of a responsible official of the firm.
4. **Interim Suspension or Suspension.** The bidder or contractor or subcontractor, respectively, certifies that it is not currently under a suspension as defined in Subpart I of Title 44 Subtitle A Chapter III Part 6 of the Illinois Administrative code. Furthermore, if suspended prior to completion of this work, the contract or contracts executed for the completion of this work may be canceled.

Local Public Agency	County	Section Number	Route(s) (Street/Road Name)
City of Urbana	Champaign	17-00592-00-RS	Lincoln Avenue

**SIGNATURES**

(If an individual)

Signature of Bidder	Date	
<input type="text"/>	<input type="text"/>	
Business Address		
<input type="text"/>		
City	State	Zip Code
<input type="text"/>	<input type="text"/>	<input type="text"/>

(If a partnership)

Firm Name		
<input type="text"/>		
Signature	Date	
<input type="text"/>	<input type="text"/>	
Title		
<input type="text"/>		
Business Address		
<input type="text"/>		
City	State	Zip Code
<input type="text"/>	<input type="text"/>	<input type="text"/>

Insert the Names and Addresses of all Partners

<input type="text"/>
----------------------

(If a corporation)

Corporate Name		
<input type="text"/>		
Signature	Date	
<input type="text"/>	<input type="text"/>	
Title		
<input type="text"/>		
Business Address		
<input type="text"/>		
City	State	Zip Code
<input type="text"/>	<input type="text"/>	<input type="text"/>

Insert Names of Officers

President
<input type="text"/>
Secretary
<input type="text"/>
Treasurer
<input type="text"/>

Attest:

<input type="text"/>
----------------------

Secretary



Contractor's Name

Contractor's Address

City

State

Zip Code

Local Public Agency

County

Section Number

Route(s) (Street/Road Name)

**Schedule for Multiple Bids**

Combination Letter	Section Included in Combinations	Total

**Schedule for Single Bid**

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

Item Number	Items	Unit	Quantity	Unit Price	Total
20100210	TREE REMOV OVER 15	UNIT	18		
20800150	TRENCH BACKFILL	CU YD	19		
21101615	TOPSOIL F & P 4	SQ YD	1261		
25200110	SODDING, SALT TOLERANT	SQ YD	1261		
25200200	SUPPLEMENTAL WATERING	UNIT	13		
28000510	INLET FILTERS	EACH	21		
40200800	AGG SURF CSE B	TON	78		
40600275	BIT MATLS PR CT	POUND	7789		
40600290	BIT MATLS TACK CT	POUND	3851		
40600400	MIX CR JTS FLANGEWYS	TON	15		
40603218	P HMA BC IL-9.5FG N70	TON	1654		
40600990	TEMPORARY RAMP	SQ YD	954		
40604162	P HMA SC IL-9.5 D N70	TON	1758		
40800050	INCIDENTAL HMA SURF	TON	20		
42300200	PCC DRIVEWAY PAVT 6	SQ YD	146		
42300400	PCC DRIVEWAY PAVT 8	SQ YD	223		
42400300	PC CONC SIDEWALK 6	SQ FT	19434		
42400800	DETECTABLE WARNINGS	SQ FT	533		
44000100	PAVEMENT REMOVAL	SQ FT	994		
44000157	HMA SURF REM 2	SQ YD	196		
44000158	HMA SURF REM 2 1/4	SQ YD	4274		
44000160	HMA SURF REM 2 3/4	SQ YD	1832		
44000165	HMA SURF REM 4	SQ YD	8127		
44000166	HMA SURF REM 4 1/4	SQ YD	2538		
44000200	DRIVE PAVEMENT REM	SQ YD	351		

Local Public Agency	County	Section Number	Route(s) (Street/Road Name)
City of Urbana	Champaign	17-00592-00-RS	Lincoln Avenue

Item Number	Items	Unit	Quantity	Unit Price	Total
44000300	CURB REMOVAL	FOOT	331		
44000500	COMB CURB GUTTER REM	FOOT	2894		
44000600	SIDEWALK REMOVAL	SQ FT	16194		
44003100	MEDIAN REMOVAL	SQ FT	125		
44201341	CL C PATCH T2 9	SQ YD	43		
44201345	CL C PATCH T3 9	SQ YD	40		
44201377	CL C PATCH T2 12	SQ YD	110		
44201381	CL C PATCH T3 12	SQ YD	33		
44201383	CL C PATCH T4 12	SQ YD	141		
550A0050	STORM SEW CL A 1 12	FOOT	177		
60218300	MAN TA 4 DIA T1F OL	EACH	1		
60218400	MAN TA 4 DIA T1F CL	EACH	1		
60219300	MAN TA 4 DIA T11F&G	EACH	2		
60236800	INLETS TA T11F&G	EACH	6		
60240310	INLETS TB T11F&G	EACH	4		
60255800	MAN ADJ NEW T1F CL	EACH	3		
60258200	MAN RECON NEW T1F CL	EACH	1		
60260400	INLETS ADJ NEW T1F CL	EACH	4		
60266600	VALVE BOX ADJ	EACH	7		
60300305	FR & LIDS ADJUST	EACH	44		
60500060	REMOVING INLETS	EACH	5		
60600605	CONC CURB TB	FOOT	102		
60603500	COMB CC&G TB6.06	FOOT	329.5		
60603800	COMB CC&G TB6.12	FOOT	2973		
60619600	CONC MED TSB6.12	SQ FT	501		
66900200	NON-SPECIAL WASTE DISPO	CU YD	147		
66901001	REG SUB P-CONST PLAN	L SUM	1		
66901003	REG SUB F CON REPORT	L SUM	1		
66901006	REG SUB MON	DAYS	4		
66900530	SOIL DISPOSAL ANALY	EACH	1		
70300100	SHORT TERM PAVT MKING	FOOT	16983		
70300150	SHRT TRM PAVT MK REM	SQ FT	5661		
72000100	SIGN PANEL T1	SQ FT	238		
72000200	SIGN PANEL T2	SQ FT	62		
72400320	REMOV SIGN PANEL T2	SQ FT	60		
72400500	RELOC SIN PAN ASSY TA	EACH	8		
72900100	METAL POST TY A	FOOT	161		
72900200	METAL POST TY B	FOOT	231		
78000100	THPL PVT MK LTR & SYM	SQ FT	494		
78000200	THPL PVT MK LINE 4	FOOT	7392		
78000400	THPL PVT MK LINE 6	FOOT	558		
78000600	THPL PVT MK LINE 12	FOOT	570		
78000650	THPL PVT MK LINE 24	FOOT	239		
81028350	UNDRGRD C PVC 2	FOOT	199		
81500120	GULFBOX JUNCTION CC	EACH	7		
81702130	EC C XLP USE 1C 6	FOOT	736		

Local Public Agency		County		Section Number		Route(s) (Street/Road Name)	
City of Urbana		Champaign		17-00592-00-RS		Lincoln Avenue	
84400105	RELOC EX LT UNIT	EACH	2				
87301215	ELCBL C SIGNAL 14 2C	FOOT	608				
87600200	PED PUSH-BUT POST T2	EACH	8				
87900200	DRILL EX HANDHOLE	EACH	7				
88600100	DET LOOP T1	FOOT	754				
URB00001	SAN MH REM AND REPLACE	EACH	1				
URB00002	BRK PVMT REM & SALVAGE	SQ FT	1277				
URB00003	BRICK PAVEMENT	SQ FT	975				
X0326863	BRICK SIDEWALK	SQ FT	1085				
X0326864	BRICK SIDEWALK REMOVAL	SQ FT	1125				
X1400235	DBL HANDHOLE ADJUST	EACH	1				
X5510100	STORM SEWER REMOVAL	FOOT	86				
X6026056	SAN MH ADJ NEW T1F CL	EACH	8				
X6026624	VALVE BOX ADJ SPL	EACH	20				
X7010216	TRAF CONT & PROT SPL	L SUM	1				
X7830070	GRV RCSD PVT MRKG 5	FOOT	7392				
X8130120	RELOC EX JUNCT BOX	EACH	1				
X8130130	JUNCTION BOX ADJUST	EACH	7				
X8140115	HANDHOLE TO BE ADJUST	EACH	12				
X8760200	ACCESSIBLE PED SIGNAL	EACH	8				
Z0013798	CONSTRUCTION LAYOUT	L SUM	1				
Z0033700	LONG JOINT SEALANT	FOOT	6196				
Z0042300	PC CONC SIDEWALK CURB	FOOT	27				
Z0070200	SURVEY MONUMENTS	EACH	1				
Z0070202	SURVEY MARKER VAULT	EACH	1				
						Bidder's Total Proposal	\$0.00



Route Lincoln Avenue
County Champaign
Local Agency City of Urbana
Section 17-00592-00-RS

RETURN WITH BID

PAPER BID BOND

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

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

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

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

IN TESTIMONY WHEREOF, the said PRINCIPAL and the said SURETY have caused this instrument to be signed by their respective officers this \_\_\_\_\_ day of \_\_\_\_\_

Principal

By: \_\_\_\_\_ (Company Name)
By: \_\_\_\_\_ (Company Name)
(Signature and Title) (Signature and Title)

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

Surety

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

STATE OF ILLINOIS,
COUNTY OF \_\_\_\_\_
I, \_\_\_\_\_, a Notary Public in and for said county,
do hereby certify that \_\_\_\_\_

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

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

Given under my hand and notarial seal this \_\_\_\_\_ day of \_\_\_\_\_

My commission expires \_\_\_\_\_ (Notary Public)

ELECTRONIC BID BOND

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

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

Electronic Bid Bond ID Code input field

Electronic Bid Bond ID Code

\_\_\_\_\_  
(Company/Bidder Name)

\_\_\_\_\_  
(Signature and Title)

\_\_\_\_\_  
Date





# Apprenticeship and Training Program Certification



Local Public Agency	County	Street Name/Road Name	Section Number
City of Urbana	Champaign	Lincoln Avenue	17-00592-00-RS

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

- For this contract proposal or for all bidding groups in this deliver and install proposal.
- For the following deliver and install bidding 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 bidder's 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:

1. Except as provided in paragraph 4 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.
2. The undersigned bidder further certifies, for work to be performed by subcontract, that each of its subcontractors 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.
3. 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.

4. Except for any work identified above, if any bidder or subcontractor 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 workforces 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 afterward 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	Signature	Date	
<div style="border: 1px solid black; height: 20px;"></div>	<div style="border: 1px solid black; height: 40px;"></div>	<div style="border: 1px solid black; height: 40px;"></div>	
Title			
<div style="border: 1px solid black; height: 20px;"></div>			
Address	City	State	Zip Code
<div style="border: 1px solid black; height: 20px;"></div>	<div style="border: 1px solid black; height: 20px;"></div>	<div style="border: 1px solid black; height: 20px;"></div>	<div style="border: 1px solid black; height: 20px;"></div>



Affidavit of Illinois Business Office



Local Public Agency	County	Street Name/Road Name	Section Number
City of Urbana	Champaign	Lincoln Avenue	17-00592-00-RS

I, \_\_\_\_\_ of \_\_\_\_\_, \_\_\_\_\_,  
Name of Affiant City of Affiant State of Affiant

being first duly sworn upon oath, state as follows:

1. That I am the \_\_\_\_\_ of \_\_\_\_\_.  
Officer or Position Bidder
2. That I have personal knowledge of the facts herein stated.
3. That, if selected under the proposal described above, \_\_\_\_\_, will maintain a business office in the  
Bidder  
 State of Illinois, which will be located in \_\_\_\_\_ County, Illinois  
County
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	Date
Print Name of Affiant	

**Notary Public**

State of IL

County \_\_\_\_\_

Signed (or subscribed or attested) before me on \_\_\_\_\_ by  
(date)

\_\_\_\_\_, authorized agent(s) of  
(name/s of person/s)

\_\_\_\_\_  
Bidder

(SEAL)

Signature of Notary Public

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

**SECTION B**

City of Urbana Proposal Forms

**CITY OF URBANA**  
**CERTIFICATION FORMS**

**The Notice of Award cannot be issued until the Contractor's equal opportunity compliance and certification forms have been approved by Urbana's Human Relations Commission. Contractors are encouraged to pre-qualify with the City prior to the bid opening to expedite issuance of the Notice of Award.**

Consultants can check to see if they are Equal Employment Opportunity (EEO) qualified with the City by contacting the City Human Relations Office at [HRO@urbanaininois.us](mailto:HRO@urbanaininois.us) or (217)384-8455.

The following Urbana Certification Forms should be completed and submitted to the City of Urbana as soon as possible by Consultants that are not EEO qualified:

- (1) Vendor Representations and Additional Duties Form
- (2) Equal Employment Opportunity (E.E.O.) Workforce Statistics Form

The forms can be mailed to:

City of Urbana  
Attn: Human Relations Office  
400 South Vine Street  
Urbana, IL 61802  
217-384-2466 – Phone  
[HRO@urbanaininois.us](mailto:HRO@urbanaininois.us)

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## VENDOR REPRESENTATIONS AND ADDITIONAL DUTIES

The Vendor agrees that following representations and additional duties are a material part of the contract. The undersigned, having been duly sworn under oath, certifies and agrees as follows:

1. None of the Vendor or its partners, officers, owners, employees, or agents have been barred from contracting with a unit of State or local government in the past five years as a result of a conviction for bid rigging, in violation of 720 ILCS 5/33E-3 or any similar offense of any state or the United States which contains the same elements as this offense. 720 ILCS 5/33E-11.
2. None of the Vendor or its partners, officers, owners, employees, or agents have ever been barred from contracting with a unit of State or local government as a result of a conviction for bid rotating, in violation of 720 ILCS 5/33E-4 or any similar offense of any state or the United States which contains the same elements as this offense. 720 ILCS 5/33E-11.
3. If the Vendor holds any elected or appointed office under the laws or Constitution of this State, the Vendor is in compliance with the Public Officer Prohibited Activities Act. 50 ILCS 105/3.
4. The Vendor is not a municipal officer with a prohibited financial interest in this contract, directly in the officer's own name or indirectly in the name of any other person, association, trust, or corporation, in accordance with 65 ILCS 5/3.1-55-10.
5. *Please initial one statement, in accordance with 65 ILCS 5/11-42.1-1:*
  - A. \_\_\_\_\_ The Vendor is not delinquent in the payment of any tax administered by the Department of Revenue unless the Vendor is contesting, in accordance with the procedures established by the appropriate revenue Act, its liability for the tax or the amount of tax.
  - B. \_\_\_\_\_ The Vendor has entered into an agreement with the Department of Revenue for the payment of all such taxes that are due and is in compliance with the agreement.
6. If the Vendor employs commercial motor vehicle operators, the Vendor is in compliance with the Federal Highway Administration rules for controlled substances and alcohol use and testing. 49 CFR Parts 40 and 382.
7. During the term of this contract, the Vendor shall comply with (a) Urbana City Code Section 2-119, which prohibits employment discrimination by contractors and vendors with the City; (B) the Equal Employment Opportunity provisions of Ill. Admin. Code tit. 44, § 750; and (C) Article 2 of the Illinois Human Rights Act, 775 ILCS 5/2-101 *et seq.*, including without limitation the requirement that the Vendor have a written sexual harassment policy in conformance with 775 ILCS 5/2-105.
8. If this contract involves the construction, reconstruction, alteration, repair, improvement, or maintenance of public works, the Vendor has filed with the City and made available to the general public a copy of the Vendor's written substance abuse prevention program, which meets or exceeds the requirements of 820 ILCS 265/15.



## VENDOR REPRESENTATIONS AND ADDITIONAL DUTIES

9. If this contract involves the construction, reconstruction, alteration, repair, improvement, or maintenance of public works, the Vendor shall use United States produced steel products, in compliance with 30 ILCS 565/4.

10. If this contract involves the construction, addition to, or alteration of public works, the Vendor shall employ laborers in compliance with the Veterans Preference Act (330 ILCS 55/0.01 *et seq.*) and the Employment of Illinois Workers on Public Works Act (30 ILCS 570/0.01 *et seq.*).

11. The Vendor shall comply with all applicable provisions of the Prevailing Wage Act, which requires the payment of the prevailing rate of wage to all laborers, workers, and mechanics employed by or on behalf of a public body in the construction, demolition, maintenance, or repair of public works. 820 ILCS 130/0.01 *et seq.* The prevailing wage rates are established and revised by the Department of Labor and are available at [www.state.il.us/agency/idol/rates/rates.htm](http://www.state.il.us/agency/idol/rates/rates.htm).

12. The Vendor shall obtain from all subcontractors to be used in the performance of this contract a sworn statement agreeing to the representations and additional duties contained on this document. The Vendor shall maintain the sworn statements on file for the duration of this contract and shall promptly provide them to the City upon request. If a subcontractor is or becomes ineligible for a contract with the City, the Vendor promptly shall terminate its subcontract upon the City's request. The Vendor shall include adequate provisions in all subcontracts to allow it to terminate such subcontracts as required herein.

The representations contained on this document are true, complete, and correct in all respects. The representations contained herein are continuing. If any such representation is no longer true or correct, the Vendor promptly shall notify the City in writing.

Vendor: \_\_\_\_\_

By: \_\_\_\_\_

Printed name: \_\_\_\_\_

Title: \_\_\_\_\_

Date: \_\_\_\_\_

State of \_\_\_\_\_

County of \_\_\_\_\_

Signed and sworn (or affirmed) to before me on \_\_\_\_\_ (date)

by \_\_\_\_\_ (name of person making statement).

(seal)

\_\_\_\_\_  
Signature of notary public

<p><b>CITY OF URBANA HUMAN          RELATIONS DIVISION          400 SOUTH VINE ST.          URBANA, ILLINOIS 61801          (217) 384-2455 (phone); 328-8288 (fax)          hro@urbanaininois.us</b></p>	<b>Office Use Only (09/15)</b>	
	<b>Requested by:</b>	<b>Date:</b>
	<b>Approved by:</b>	<b>Date:</b>
	<b>Certification          Date:</b>	
	<b>Certificate Expiration Date:</b>	
<b>EQUAL EMPLOYMENT OPPORTUNITY (E.E.O.) WORKFORCE STATISTICS FORM</b>		
<p><b>Please complete the sections below as instructed. Failure to properly complete this form may result in a delay or denial of eligibility to bid or do business with the City of Urbana.</b></p>		
<b>Section I. Identification</b>		
<b>1. Company Name and Address:</b>		
Name:		
d/b/a:		
Address:		
City/State/Zip:		
Telephone Number(s) include area code:		
Check one of the following		
Corporation	<input type="checkbox"/>	Partnership
Individual Proprietorship	<input type="checkbox"/>	Limited Liability Corp.
FEI Number:	Social Security Number:	
<b>2. Name and Address of the Company's Principal Office (answer only if not the same as above)</b>		
Name:		
Address:		
City/State/Zip		
<b>3. Major activity of your company (product or service):</b>		
<b>4. Project on which your company is bidding:</b>		
<b>5. City of Urbana contact staff assigned to contract:</b>		



## SECTION II. Policies and Practices

Description of EEO Policies and Practices		YES	NO
A.	Is it the Company's policy to recruit, hire, train, upgrade, promote and discipline persons without regard to race, color, creed, class, national origin, religion, sex, age, marital status, mental and/or physical disability, personal appearance, sexual preference, family responsibilities, matriculation, political affiliation, prior arrest, conviction record, or source of income ?		
B.	Has someone been assigned to develop procedures, which will assure that the EEO policy is implemented and enforced by managerial, administrative, and supervisory personnel? If so, please indicate <u>the name and title of the official charged with this responsibility.</u> Name: _____ Title: _____ Telephone: _____ Email: _____		
C.	Does the company have a written Equal Employment Opportunity plan or statement? Note: If no, a copy of an E.E.O statement is enclosed. <b>You must attach an EEO Statement in order to be considered eligible to do business with the City of Urbana. Questions? (217) 384-2455 or hro@city.urbana.il.us.</b>		
D.	Has the company developed a written policy statement prohibiting Sexual Harassment? <b>You must attach a copy of your company's Sexual Harassment Policy in order to be considered eligible to do business with the City of Urbana.</b>		
E.	Have all recruitment sources been notified that the company will consider all qualified applicants without regard to race, color, creed, class, national origin, religion, sex, age, marital status, mental and/or physical disability, personal appearance, sexual orientation, family responsibilities, matriculation, political affiliation, prior arrest, conviction record, or source of income?		
F.	If advertising is used, does it specify that all qualified applicants will be considered for employment without regard to race, color, creed, class, national origin, religion, sex, age, marital status, mental and/or physical disability, personal appearance, sexual orientation, family responsibilities, matriculation, political affiliation, prior arrest, conviction record, or source of income?		
G.	Has the contractor notified all of its sub-contractors of their obligations to comply with the Equal Opportunity requirements either in writing, by inclusion in subcontracts or purchase orders?		
H.	Is the company a state certified minority/women owned business? If yes, please attach a copy of state certification.		
I.	Does the company have collective bargaining agreements with labor organizations?		
J.	If you answered yes to Question "I", have the labor organizations been notified of the company's responsibility to comply with the Equal Employment Opportunity requirements in all contracts with the City of Urbana?		
K.	Does your company perform construction, rehabilitation, alteration, conversion, demolition or repair of buildings, highways or other improvements to real property? <b>(If yes, please complete Table B.)</b>		
L.	Are you currently seeking to renew an existing or expired Urbana EEO certification? <b>(If yes, you need to complete Table C.)</b>		

## SECTION III. Employment Information

**IMPORTANT:** Please complete the company workforce analysis on the bottom of this page. Use the number of employees as of the most recent payroll period. **You must complete this form in its entirety, as instructed and submit your organization's (1) EEO Statement and (2) Sexual Harassment Policy in order to be eligible to do business with the City of Urbana. For detailed descriptions of the Job Classifications see attached descriptions.** If minorities and females are currently under-represented in your workforce, please attach a copy of an explanation of your plan to recruit and hire qualified minorities and females.

**TABLE A – TOTAL CONTRACTOR/VENDOR WORKFORCE**

Job Categories	Overall Totals		White (Not of Hispanic Origin)		Black or African-American (Not of Hispanic Origin)		Hispanic or Latino		Asian or Pacific Islander		American Indian or Alaskan Native	
	M	F	M	F	M	F	M	F	M	F	M	F
Officials & Mgrs												
Professionals												
Technicians												
Sales Workers												
Office & Clerical												
Craft Workers (Skilled)												
Operatives (Semi-Skilled)												
Laborers (Unskilled)												
Service Workers												
<b>TOTAL</b>												
M = MALE, Column B is sum of Rows D, F, H, J and L. F = FEMALE, Column C is sum of Rows E, G, I, K and M.												
<b>Date of above Data:</b> _____												



## SECTION IV. Certification

By signing below, the company certifies that it has answered all of the foregoing questions truthfully to the best of its knowledge and belief and agrees that it/he/she will comply and abide by the City of Urbana's Code of Ordinances (Section 2-119).

\_\_\_\_\_  
Signature

\_\_\_\_\_  
Printed Name and Title

\_\_\_\_\_  
E-mail Address

\_\_\_\_\_  
Date

## SECTION V. Verification

**Prior to submitting this form, please check the answers to the following questions to verify your completion of this form:**

1. Did you fill in all of the appropriate boxes in the table in Section III, including the "TOTAL" row?

YES \_\_\_\_\_

NO \_\_\_\_\_

2. Have you enclosed your company's EEO statement?

YES \_\_\_\_\_

NO \_\_\_\_\_

3. Have you enclosed your company's Sexual Harassment policy?

YES \_\_\_\_\_

NO \_\_\_\_\_

# DEFINITIONS OF TERMS LISTED ON THE WORKFORCE STATISTICS FORM

(See previous Page)

## DESCRIPTION OF RACE/ETHNIC CATEGORIES

Race /ethnic designations as used by the Department do not denote scientific definitions of anthropological origins. For the purposes of this report, an employee may be included in the group to which he or she appears to belong, identifies with, or is regarded in the community as belonging. However, no person should be counted in more than one race/ethnic group. The race/ethnic categories for this report are:

**White (Not of Hispanic origin).** All persons having origins in any of the original peoples of Europe, North Africa or the Middle East.

**Black of African-American (Not of Hispanic origin).** All persons having origins in any of the Black racial groups of Africa.

**Hispanic or Latino.** All persons of Mexican, Puerto Rican, Cuban, Central of South American, or other Spanish culture or origin, regardless of race.

**Asian or Pacific Islander.** All persons having origins any of the original peoples of the Far East, Southeast Asia, the Indian Subcontinent, or the Pacific Islands. This area includes, for example, China, India, Japan, Korea, the Philippine Islands and Samoa.

**American Indian or Alaskan Native.** All persons having origins in any of the original peoples of North America, and who maintain cultural identification through tribal affiliation or community recognition.

## DESCRIPTION OF JOB CATEGORIES

Each employee should be counted in only one job category. Select the category containing the jobs most similar to that performed by the employee. The jobs listed in each category are intended to provide an example, not a complete list, of all job titles falling into that category.

**Officials and managers.** Occupations requiring administrative and managerial personnel who set broad policies, exercise overall responsibility for execution of these policies, and direct individual departments or special phases of firm's operations. Includes: officials, executives, middle management, plant managers, department managers, and superintendents, salaried supervisors who are members of management, purchasing agents and buyers, railroad conductors and yard masters, ship captains, mates and other officers farm operators and managers, and kindred workers.

**Professionals.** Occupations requiring either college graduation or experience of such kind and amount as to provide a comparable background. Includes: accountants and auditors, airplane pilots and navigators, architects, artists, chemists, designers, dietitians, editors, engineers, layers, librarians, mathematicians, natural scientist, registered professional nurses, personnel and labor relations specialist, physical scientist, physicians, social scientist, teachers, surveyors and kindred workers.

**Technicians.** Occupations requiring a combination of basic scientific knowledge and manual skill which can be obtained through 2 years of post high school education, such as is offered in many technical institutes and union colleges, or through equivalent on-the-job training. Include: computer programmers, drafters, engineering aides, junior engineers, mathematical aides, licensed, practical or vocational nurses, photographers, radio operators, scientific assistants, technical illustrators, technicians (medical, dental, electronic, physical science), and kindred workers.

**Sales.** Occupations engaging wholly or primarily in direct selling. Includes: advertising agents and sales workers, insurance agents and brokers, real estate agents, and brokers, stock and bond sales workers, demonstrators, sales workers and sales clerks, grocery clerks, and cashiers/checkers, and kindred workers.

**Office and clerical.** Includes all clerical-type work regardless of level of difficulty, where the activities are predominantly non manual though some manual work not directly involved with altering or transporting the products is included. Includes: bookkeepers, collectors (bills and accounts), messengers and office helpers, office machine operators (including computer), shipping and receiving clerks, stenographers, typists and secretaries, telegraph and telephone operators, legal assistants, and kindred workers.

**Craft workers (skilled).** Manual workers of relatively high skill level having a thorough and comprehensive knowledge of the processes involved in their work. Exercise considerable independent judgment and usually receive an extensive period of training. Includes: the building trades, hourly paid supervisors and lead operators who are not members of occupations, compositors and typesetters, electricians, engravers, painters (construction and maintenance), motion picture projectionists, pattern and model makers, stationary hand painters, coaters, bakers, decorating occupations, and kindred workers.

**Operatives (semiskilled).** Workers who operate machine or processing equipment or perform other factory-type duties of intermediate skill level which can be mastered in a few weeks and require only limited training. Includes: apprentices (auto service and stitchers, dryers, furnace workers, heaters, laundry and dry cleaning operatives, milliners, mine operatives and laborers, motor operators, oilers and greasers (except auto), painters (manufactured articles), photographic process workers, truck and tractor drivers, knitting, looping, taping and weaving machine operators, welders and flame cutters, electrical and electronic equipment assemblers, butchers and meatcutters, inspectors, testers and graders, handpackers and packagers, and kindred workers.

**Laborers (unskilled).** Workers in manual occupations which generally require no special training who perform elementary duties that may be learned in a few days and require the application of little or no independent judgment. Includes: garage laborers, car washers and greasers, groundskeepers and gardeners, farmworkers, stevedores, wood choppers, laborers performing lifting, digging, mixing, loading and pulling operation and kindred workers.

**Service workers.** Workers in both protective and nonprotective service occupations. Includes: Attendants (hospital and other institutions, professional and personal service, including nurses aides, and orderlies), barbers, charworkers and cleaners, cooks, counter and fountain workers, elevator operators, firefighters and fire protection, guards, doorkeepers, stewards, janitors, police officers and detectives, porters, waiters and waitresses, amusement and recreation facilities attendants, guides, ushers, public transportation attendants, and kindred workers

## Champaign County Prevailing Wage Rates posted on 3/3/2020

Trade Title	Rg	Type	C	Base	Foreman	Overtime				H/W	Pension	Vac	Trng	Other Ins
						M-F	Sa	Su	Hol					
ASBESTOS ABT-GEN	All	BLD		32.37	33.62	1.5	1.5	2.0	2.0	6.70	16.92	0.00	0.90	
ASBESTOS ABT-MEC	All	BLD		22.40	23.40	1.5	1.5	2.0	2.0	6.80	6.55	0.00	0.50	
BOILERMAKER	All	BLD		41.00	44.00	2.0	2.0	2.0	2.0	7.07	20.57	1.50	1.24	
BRICK MASON	All	BLD		32.45	34.07	1.5	1.5	2.0	2.0	9.35	14.20	0.00	0.88	
CARPENTER	All	BLD		36.58	38.83	1.5	1.5	2.0	2.0	8.65	14.50	0.00	0.55	
CARPENTER	All	HWY		37.30	39.05	1.5	1.5	2.0	2.0	8.65	15.20	0.00	0.52	
CEMENT MASON	All	BLD		33.76	36.26	1.5	1.5	2.0	2.0	9.35	10.65	0.00	0.50	
CEMENT MASON	All	HWY		34.75	36.75	1.5	1.5	2.0	2.0	9.35	11.05	0.00	0.50	
CERAMIC TILE FINISHER	All	BLD		31.65	31.65	1.5	1.5	2.0	2.0	9.35	10.40	0.00	0.20	
ELECTRIC PWR EQMT OP	All	ALL		46.47	55.07	1.5	1.5	2.0	2.0	7.39	13.01	0.00	0.69	
ELECTRIC PWR GRNDMAN	All	ALL		31.69	55.07	1.5	1.5	2.0	2.0	6.95	8.87	0.00	0.48	
ELECTRIC PWR LINEMAN	All	ALL		51.67	55.07	1.5	1.5	2.0	2.0	7.55	14.47	0.00	0.78	
ELECTRIC PWR TRK DRV	All	ALL		33.25	55.07	1.5	1.5	2.0	2.0	7.00	9.31	0.00	0.50	
ELECTRICIAN	All	BLD		42.48	45.03	1.5	1.5	2.0	2.0	7.25	10.42	0.00	0.64	
ELECTRONIC SYSTEM TECH	All	BLD		32.28	34.28	1.5	1.5	2.0	2.0	7.25	10.32	0.00	0.40	
ELEVATOR CONSTRUCTOR	All	BLD		47.72	53.68	2.0	2.0	2.0	2.0	15.72	18.41	3.82	0.63	
FENCE ERECTOR	All	ALL		32.21	34.11	1.5	1.5	2.0	2.0	8.84	10.02	0.00	0.90	
GLAZIER	All	BLD		35.91	37.91	1.5	1.5	2.0	2.0	6.25	11.23	0.00	0.68	
HEAT/FROST INSULATOR	All	BLD		32.20	33.70	1.5	1.5	2.0	2.0	6.64	12.74	0.00	0.30	1.60
IRON WORKER	All	ALL		33.89	35.79	1.5	1.5	2.0	2.0	11.29	12.34	0.00	1.11	
LABORER	All	BLD		29.87	31.12	1.5	1.5	2.0	2.0	6.70	16.92	0.00	0.80	
LABORER	All	HWY		32.22	33.22	1.5	1.5	2.0	2.0	6.70	17.00	0.00	0.80	
LATHER	All	BLD		36.58	38.83	1.5	1.5	2.0	2.0	8.65	14.50	0.00	0.55	
MACHINIST	All	BLD		48.93	51.43	1.5	1.5	2.0	2.0	7.68	8.95	1.85	1.32	
MARBLE FINISHER	All	BLD		31.65	31.65	1.5	1.5	2.0	2.0	9.35	10.40	0.00	0.20	
MARBLE MASON	All	BLD		33.15	33.15	1.5	1.5	2.0	2.0	9.35	10.40	0.00	0.20	
MILLWRIGHT	All	BLD		32.53	34.78	1.5	1.5	2.0	2.0	8.65	19.01	0.00	0.55	
MILLWRIGHT	All	HWY		35.51	37.26	1.5	1.5	2.0	2.0	8.65	19.77	0.00	0.52	
OPERATING ENGINEER	All	ALL	1	41.65	42.65	1.5	1.5	2.0	2.0	9.95	10.90	0.00	1.15	
OPERATING ENGINEER	All	ALL	2	26.55	42.65	1.5	1.5	2.0	2.0	9.95	10.90	0.00	1.15	
OPERATING ENGINEER	All	ALL	3	42.65	43.65	1.5	1.5	2.0	2.0	9.95	10.90	0.00	1.15	

PAINTER	All	ALL		35.56	37.06	1.5	1.5	2.0	2.0	9.35	6.38	0.00	0.60
PAINTER - SIGNS	All	ALL		35.56	37.06	1.5	1.5	2.0	2.0	9.35	6.38	0.00	0.60
PILEDRIIVER	All	BLD		37.58	39.83	1.5	1.5	2.0	2.0	8.65	14.50	0.00	0.55
PILEDRIIVER	All	HWY		37.30	39.05	1.5	1.5	2.0	2.0	8.65	15.20	0.00	0.52
PIPEFITTER	All	BLD		44.45	47.21	1.5	1.5	2.0	2.0	7.40	10.25	0.00	2.00
PLASTERER	All	BLD		33.43	35.43	1.5	1.5	2.0	2.0	9.35	12.58	0.00	0.50
PLUMBER	All	BLD		44.45	47.21	1.5	1.5	2.0	2.0	7.40	10.25	0.00	2.00
ROOFER	All	BLD		31.60	33.10	1.5	1.5	2.0	2.0	9.25	8.40	0.00	0.27
SHEETMETAL WORKER	All	BLD		37.37	39.62	1.5	1.5	2.0	2.0	9.35	15.75	0.00	0.52
SPRINKLER FITTER	All	BLD		41.97	44.72	1.5	1.5	2.0	2.0	10.23	12.59	0.00	0.52
STONE MASON	All	BLD		32.45	34.07	1.5	1.5	2.0	2.0	9.35	14.20	0.00	0.88
TERRAZZO FINISHER	All	BLD		31.65	31.65	1.5	1.5	2.0	2.0	9.35	10.40	0.00	0.20
TERRAZZO MASON	All	BLD		33.15	33.15	1.5	1.5	2.0	2.0	9.35	10.40	0.00	0.20
TILE MASON	All	BLD		33.15	33.15	1.5	1.5	2.0	2.0	9.35	10.40	0.00	0.20
TRUCK DRIVER	All	ALL	1	38.06	42.18	1.5	1.5	2.0	2.0	13.00	6.37	0.00	0.25
TRUCK DRIVER	All	ALL	2	38.61	42.18	1.5	1.5	2.0	2.0	13.00	6.37	0.00	0.25
TRUCK DRIVER	All	ALL	3	38.87	42.18	1.5	1.5	2.0	2.0	13.00	6.37	0.00	0.25
TRUCK DRIVER	All	ALL	4	39.23	42.18	1.5	1.5	2.0	2.0	13.00	6.37	0.00	0.25
TRUCK DRIVER	All	ALL	5	40.27	42.18	1.5	1.5	2.0	2.0	13.00	6.37	0.00	0.25
TRUCK DRIVER	All	O&C	1	30.45	33.74	1.5	1.5	2.0	2.0	13.00	6.37	0.00	0.25
TRUCK DRIVER	All	O&C	2	30.89	33.74	1.5	1.5	2.0	2.0	13.00	6.37	0.00	0.25
TRUCK DRIVER	All	O&C	3	31.10	33.74	1.5	1.5	2.0	2.0	13.00	6.37	0.00	0.25
TRUCK DRIVER	All	O&C	4	31.38	33.74	1.5	1.5	2.0	2.0	13.00	6.37	0.00	0.25
TRUCK DRIVER	All	O&C	5	32.22	33.74	1.5	1.5	2.0	2.0	13.00	6.37	0.00	0.25
TUCKPOINTER	All	BLD		32.45	34.07	1.5	1.5	2.0	2.0	9.35	14.20	0.00	0.88

**Legend**

**Rg** Region

**Type** Trade Type - All,Highway,Building,Floating,Oil & Chip,Rivers

**C** Class

**Base** Base Wage Rate

**OT M-F** Unless otherwise noted, OT pay is required for any hour greater than 8 worked each day, Mon through Fri. The number listed is the multiple of the base wage.

**OT Sa** Overtime pay required for every hour worked on Saturdays

**OT Su** Overtime pay required for every hour worked on Sundays

**OT Hol** Overtime pay required for every hour worked on Holidays

**H/W** Health/Welfare benefit

**Vac** Vacation

## **Trng Training**

**Other Ins** Employer hourly cost for any other type(s) of insurance provided for benefit of worker.

### Explanations CHAMPAIGN COUNTY

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

Oil and chip resealing (O&C) means the application of road oils and liquid asphalt to coat an existing road surface, followed by application of aggregate chips or gravel to coated surface, and subsequent rolling of material to seal the surface.

### EXPLANATION OF CLASSES

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

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

### CERAMIC TILE FINISHER, MARBLE FINISHER, TERRAZZO FINISHER

Assisting, helping or supporting the tile, marble and terrazzo mechanic by performing their historic and traditional work assignments required to complete the proper installation of the work covered by said crafts. The term "Ceramic" is used for naming the classification only and is in no way a limitation of the product handled. Ceramic takes into consideration most hard tiles.

### ELECTRONIC SYSTEMS TECHNICIAN

Installation, service and maintenance of low-voltage systems which utilizes the transmission and/or transference of voice, sound, vision, or digital for commercial, education, security and entertainment purposes for the following: TV monitoring and surveillance, background/foreground music, intercom and telephone interconnect, field programming, inventory control systems, microwave transmission, multi-media, multiplex, radio page, school, intercom and sound burglar alarms and low voltage master clock systems.

Excluded from this classification are energy management systems, life safety systems, supervisory controls and data acquisition systems not intrinsic with the above listed systems, fire alarm systems, nurse call systems and raceways exceeding fifteen feet in length.

TRUCK DRIVER - BUILDING, HEAVY AND HIGHWAY CONSTRUCTION Class 1. Drivers on 2 axle trucks hauling less than 9 ton. Air compressor and welding machines and brooms, including those pulled by separate units, truck driver helpers, warehouse employees, mechanic helpers, greasers and tiremen, pickup trucks when hauling materials, tools, or workers to and from and on-the-job site, and fork lifts up to 6,000 lb. capacity.

Class 2. Two or three axle trucks hauling more than 9 ton but hauling less than 16 ton. A-frame winch trucks, hydrolift trucks, vector trucks or similar equipment when used for transportation purposes. Fork lifts over 6,000 lb. capacity, winch trucks, four



axle combination units, and ticket writers.

Class 3. Two, three or four axle trucks hauling 16 ton or more. Drivers on water pulls, articulated dump trucks, mechanics and working forepersons, and dispatchers. Five axle or more combination units.

Class 4. Low Boy and Oil Distributors.

Class 5. Drivers who require special protective clothing while employed on hazardous waste work.

#### TRUCK DRIVER - OIL AND CHIP RESEALING ONLY.

This shall encompass laborers, workers and mechanics who drive contractor or subcontractor owned, leased, or hired pickup, dump, service, or oil distributor trucks. The work includes transporting materials and equipment (including but not limited to, oils, aggregate supplies, parts, machinery and tools) to or from the job site; distributing oil or liquid asphalt and aggregate; stock piling material when in connection with the actual oil and chip contract. The Truck Driver (Oil & Chip Resealing) wage classification does not include supplier delivered materials.

OPERATING ENGINEERS - BUILDING, HEAVY AND HIGHWAY CONSTRUCTION Class 1. Draglines, Derricks, Shovels, Gradalls, Mechanics, Tractor Highlift, Tournadozer, Concrete Mixers with Skip, Tournamixer, Two Drum Machine, One Drum Hoist with Tower or Boom, Cableways, Tower Machines, Motor Patrol, Boom Tractor, Boom or Winch Truck, Winch or Hydraulic Boom Truck, Tournapull, Tractor Operating Scoops, Bulldozer, Push Tractor, Asphalt Planer, Finishing Machine on Asphalt, Large Rollers on Earth, Rollers on Asphalt Mix, Ross Carrier or similar Machine, Gravel Processing Machine, Asphalt Plant Engineer, Paver Operator, Dredging Equipment, or Dredge Engineer, or Dredge Operator, Central Mix Plant Engineer, CMI or similar type machine, Concrete Pump, Truck or Skid Mounted, Engineer or Rock Crusher Plant, Concrete Plant Engineer, Ditching Machine with dual attachment, Tractor Mounted Loaders, Hydro Crane, Standard or Dinkey Locomotives, Scoopmobiles, Euclid Loader, Soil Cement Machine, Back Filler, Elevating Machine, Power Blade, Drilling Machine, including Well Testing, Caissons, Shaft or any similar type drilling machines, Motor Driven Paint Machine, Pipe Cleaning Machine, Pipe Wrapping Machine, Pipe Bending Machine, Apsco Paver, Boring Machine, (Head Equipment Greaser), Barber-Greene Loaders, Formless Paver, (Well Point System), Concrete Spreader, Hydra Ax, Span Saw, Marine Scoops, Brush Mulcher, Brush Burner, Mesh Placer, Tree Mover, Helicopter Crew (3), Piledriver-Skid or Crawler, Stump Remover, Root Rake, Tug Boat Operator, Refrigerating Machine, Freezing Operator, Chair Cart- Self-Propelled, Hydra Seeder, Straw Blower, Power Sub Grader, Bull Float, Finishing Machine, Self-Propelled Pavement Breaker, Lull (or similar type Machine), Two Air Compressors, Compressors hooked in Manifold, Chip Spreader, Mud Cat, Sull-Air, Fork Lifts (except when used for landscaping work), Soil Stabilizer (Seaman Tiller, Bo Mag, Rago Gator, and similar types of equipment), Tube Float, Spray Machine, Curing Machine, Concrete or Asphalt Milling Machine, Snooper Truck-Operator, Backhoe, Farm Tractors (with attachments), 4 Point Lift System (Power Lift or similar type), Skid-Steer (Bob Cat or similar type), Wrecking Shears, Water Blaster.

Class 2. Concrete Mixers without Skips, Rock Crusher, Ditching Machine under 6', Curbing Machine, One Drum Machines without Tower or Boom, Air Tugger, Self-Propelled Concrete Saw, Machine Mounted Post Hole Digger, two to four Generators, Water Pumps or Welding Machines, within 400 feet, Air Compressor 600 cu. ft. and under, Rollers on Aggregate and Seal Coat Surfaces, Fork Lift (when used for landscaping work), Concrete and Blacktop Curb Machine, One Water Pump, Oilers, Air Valves or Steam Valves, One Welding Machine, Truck Jack, Mud Jack, Gunnite Machine, House Elevators when used for hoisting material, Engine Tenders, Fireman, Wagon Drill, Flex Plane, Conveyor, Siphons and Pulsometer, Switchman, Fireman on Paint Pots, Fireman on Asphalt Plants, Distributor Operator on Trucks, Tampers, Self-Propelled Power Broom, Striping Machine (motor driven), Form Tamper, Bulk Cement Plant, Equipment Greaser, Deck Hands, Truck Crane Oiler-Driver, Cement Blimps, Form Grader, Temporary Heat, Throttle Valve, Super Sucker (and similar type of equipment).

Class 3. Power Cranes, Truck or Crawler Crane, Rough Terrain Crane (Cherry Picker), Tower Crane, Overhead Crane.

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.

**SECTION C**

General Information, General Contractual Conditions, and Technical Special Provisions

**CITY OF URBANA**  
**GENERAL INFORMATION,**  
**GENERAL CONTRACTUAL CONDITIONS, AND**  
**TECHNICAL SPECIAL PROVISIONS**

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## PART 1 – GENERAL INFORMATION

### 1.1 Advertisement for Bids

City of Urbana  
Department of Public Works  
706 South Glover Avenue  
Urbana, Illinois 61802

Sealed BIDS for the construction of the **Lincoln Avenue & Springfield Avenue Resurfacing (City Section 17-00592-00-RS)** including: Includes hot-mix asphalt surface removal and replacement, pavement patching, curb and gutter removal and replacement, sidewalk repair, and other miscellaneous work that will be received by the City of Urbana at the office of the Director of Public Works, 706 South Glover, Urbana, Illinois 61802 until **2:00 p.m.** prevailing time on **Thursday, June 10<sup>th</sup>, 2021** and publicly opened and read aloud at said office.

The Bid Documents may be examined and copies obtained at the office of the Director of Public Works, 706 South Glover Avenue, Urbana, Illinois 61802.

All bidders are required to provide current financial and experience statements or other prequalification documents to show satisfactory evidence of the bidder's competency to perform the proposed work at the time the Contract Documents and Specifications are requested or picked up. The bidder must submit evidence of current prequalification with the Illinois Department of Transportation.

Each bid shall be accompanied by a certified check, bank draft, bank cashier's check or bid bond acceptable to the Owner in an amount not less than five percent (5%) of the amount bid, payable without condition to the Owner as a guaranty that the Bidder, if awarded the Contract, will promptly execute the Agreement in accordance with the Proposal and the other Contract Document, and will furnish good and sufficient bond for the faithful performance of the work.

As required by the Illinois Prevailing Wage Act, the general prevailing rate of wages in the locality for each craft or type of worker or mechanic needed to execute the contract or perform such work, also the general prevailing rate for legal holiday and overtime work, as ascertained by the City of Urbana, shall be paid for each craft or type of worker needed to execute the contract or to perform such work.

This contract will be awarded to the lowest responsive and responsible bidder considering conformity with the terms and conditions established by the City of Urbana in the proposal and contract documents. The City reserves the right to determine responsibility at the time of award, to reject any or all proposals, to re-advertise the proposed improvement, and to waive technicalities.

Tim Cowan, P.E.  
Director of Public Works

## **1.2 Information for Bidders**

Bids will be received by the City of Urbana (herein called the "Owner") acting through the City Council at 706 South Glover Avenue, Urbana, Illinois 61802 until **2:00 P.M.** prevailing time on **Thursday, June 10<sup>th</sup>, 2021** and publicly opened and read aloud at said office. In the event COVID-19 restrictions are still in effect, bids will be read via Urbana Public Television at the designated time.

All bids and accompanying data must be submitted in conformity with, be based upon, and be subject to all the requirements of the Contract Documents. The following documents must be submitted as part of the Bid:

- BLR 12200: Local Public Agency Formal Contract Proposal
- BLR 12201: Schedule of Prices
- BLR 12230: Local Agency Proposal Bid Bond
- BLR 12325: Apprenticeship or Training Program Certification
- BLR 12326: Affidavit of Illinois Business Office
- Vendor Representation and Additional Duties Form

Each Bid must be submitted in a sealed envelope, addressed to the City of Urbana in care of the Director of Public Works, 706 South Glover Avenue, Urbana, Illinois 61802. Each sealed envelope containing a Bid must be plainly marked on the outside as "**Lincoln Avenue & Springfield Avenue Resurfacing**" **City Section 17-00592-00-RS** and the envelope should bear on the outside the name of the Bidder, his/her address, and his/her license number if applicable. If forwarded by mail, the sealed envelope containing the Bid must be enclosed in another envelope addressed to the City of Urbana in care of the Director of Public Works, 706 South Glover Avenue, Urbana, Illinois 61802.

All Bids must be made on the required Bid form. All blank spaces for Bid prices must be filled in, in ink or typewritten, and the Bid form must be fully completed and executed when submitted. Where amounts are given in both words and figures, the words will govern. If there is a discrepancy between the total amount and unit price, the unit prices will govern. Only one copy of the Bid form is required.

A conditional or qualified Bid will not be accepted.

Each Bid shall be accompanied by a certified check, bank draft, bank cashier's check or bid bond acceptable to the Owner (BLR 12230) as a Proposal Guarantee, in an amount not less than five percent (5%) of the amount bid, payable without condition to the Owner as a guaranty that the Bidder, if awarded the Contract, will promptly execute the Agreement in accordance with the Proposal and the other Contract Documents, and will furnish good and sufficient bond for the faithful performance of the work. As soon as the Proposals have been compared, the Owner shall return the Proposal Guarantees of all except the three lowest responsible Bidders. When the Contract is executed, the Proposal Guarantees of the two remaining unsuccessful Bidders shall be returned. The Proposal Guarantee of the successful bidder will be retained until the Contract Bond has been executed and approved, after which it will be returned.

A Contract Bond in the amount of 100 percent of the contract price, with a corporate surety approved by the Owner, will be required for the faithful performance of the Contract.

Attorneys-in-fact who sign Bid Bonds or Contract Bonds must file with each bond a certified and effective dated copy of their power of attorney.

The Contract Documents contain the provisions required for the construction of the Project. Information obtained from an officer, agent or employee of the Owner or any other person shall not affect the risks or obligations assumed by the Contractor or relieve him/her from fulfilling any of the conditions of the Contract.

Bidders must satisfy themselves of the accuracy of the estimated quantities in the Bid schedule by examination of the site and a review of the drawings and specifications, including addenda. After Bids have been submitted, the Bidder shall not assert that there was a misunderstanding concerning the quantities of work or of the nature of the work to be done.

Each Bidder is responsible for inspecting the site and for reading and being thoroughly familiar with the Plans and Contract Documents, including all addenda. The failure or omission of any Bidder to do any of the foregoing shall in no way relieve any Bidder from any obligation in respect to his/her Bid.

Should a bidder find discrepancies in or omission from any part of the documents, or be in doubt as to their meaning, the bidder shall at once notify the City at least five (5) days prior to the deadline for bid receipt. The City will send written instructions in the form of an addendum to all bidders if the information is deemed necessary by the City in submitting bids. The City will not be responsible for any oral instructions. The failure of the bidder to request clarification prior to submitting the bid waives the bidder's right to claim any ambiguity or discrepancy in the documents.

Should the City issue any Addendum to the Bid documents, the bidder shall acknowledge receipt of the amendment by including a copy of the Addendum with their bid form. The bid shall be based on all Addenda. **Any Addendum issued by the City shall be considered part of the bid documents and failure to submit acknowledgement of the receipt of all Addenda shall be cause for the City to reject the bid.**

Any Bid may be modified or withdrawn prior to the above scheduled time for the opening of Bids or authorized postponement thereof. Any Bid received after the time and date specified shall not be considered. No Bidder may withdraw a Bid within 90 calendar days after the actual date of the opening thereof. Should there be reasons why the contract cannot be awarded within the specified period; the time may be extended by mutual agreement between the Owner and the Bidder.

The Bidder and their subcontractors shall comply fully with all applicable City of Urbana Ordinances including, but not limited to the City of Urbana's Human Rights Ordinance as well as all other laws and ordinances pertaining to equal employment opportunity. Pursuant to the guidelines, the Bidder must have on file a Certificate of Compliance from the City of Urbana before a bid can be awarded to the Bidder. In addition, before a subcontractor can be utilized on this project the subcontractor must have on file a Certificate of Compliance from the City of Urbana. The Notice of Award **cannot** be issued until the Contractor's equal employment opportunity Certificate of Compliance forms have been approved by Urbana's Human Relations Commission. Contractors and Subcontractors are encouraged to pre-qualify with the City prior to the Bid opening to expedite issuance of the Notice of Award. Inquiries concerning this requirement may be directed to the Human Relations Officer, 400 South Vine Street, Urbana, Illinois 61801 or by telephone at (217) 384-2466.

Attention of Bidders is directed to each of the following and the applicable provisions contained therein to which Bidders must comply:

1. "An Act Regulating Wages of Laborers, Mechanics, and Other Workmen Employed Under Contracts for Public Work" enacted by the 62nd General Assembly, approved June 26, 1941, as amended to date, (which is also known as the "Prevailing Wage Act" [820 ILCS 130/0.01 *et seq.*]) and in accordance herewith there shall be paid to each workman engaged in contract work, not less than the prevailing wage including fringe benefits as determined by the Secretary of Labor. Vendors shall be subject to any change in rates, which may be effective at the time the Contract is awarded. **Certified payrolls shall be required and submitted monthly with all pay requests. The Bidder shall maintain for a period of five (5) years from the date of the last payment made on the Contract records of all laborers, mechanics and other workers employed by them or their sub-contractors on the project and such information as is**



**provided by the Prevailing Wage Act (820 ILCS 130/5). See General Conditions for more information.**

2. The “Fair Employment Practices Act” of the State of Illinois approved July 1, 1961, and particularly the provisions of Section 4 thereof, concerning Public Contracts. The Contract, which is to be entered into, shall be conditioned as provided by law.

3. The “Illinois Human Rights Act” of the State of Illinois approved December 6, 1979, and particularly the provisions of Section 2-501 thereof, concerning Public Contracts. The Contract, which is to be entered into, shall be conditioned as provided by law.

4. The “Illinois Procurement Code” of the State of Illinois approved February 6, 1998, and particularly Section 30-22 thereof (30 ILCS 500/30-22) concerning responsible bidders on a construction contract. The Contract, which is to be entered into, shall be conditioned as provided by law.

5. The “Public Construction Bond Act” of the State of Illinois (30 ILCS 550/0.01 *et seq.*) concerning the furnishing, supplying and delivery of a bond.

6. The “Employment of Illinois Workers on Public Works Act” of the State of Illinois (30 ILCS 570/0.01 *et seq.*) concerning the hiring of Illinois workers during periods of high unemployment.

Each Bidder must also certify that it is not barred from bidding as a result of (i) any local office holder, whether elected or appointed, having any manner of financial interest in the Contract as prohibited by the “Public Officer Prohibited Activities Act” of the State of Illinois (50 ILCS 105/0.01 *et seq.*) or (ii) non-compliance with any State law which prohibits bid rigging or bid-rotating. Further, each Bidder must certify that it is in compliance with the “State Drug Free Workplace Act” of the State of Illinois (30 ILCS 580/1 *et seq.*).

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

**Substance Abuse Prevention Program.** Before the Contractor and any Subcontractor commences work, the Contractor and any Subcontractor shall have in place a written Substance Abuse Prevention Program for the prevention of substance abuse among its employees which meets or exceeds the requirements in Public Act 95-0635 or shall have a collective bargaining agreement in effect dealing with the subject matter of Public Act 95-0635. The Contractor and any Subcontractor shall file with the City of Urbana a copy of the substance prevention program along with a cover letter certifying that their program meets the requirements of the Act, or a letter certifying that the Contractor or Subcontractor has a collective bargaining agreement in effect dealing with the subject matter of this Act.

This Contract will be awarded to the lowest qualified responsive and responsible Bidder considering conformity with the terms and conditions established by the City of Urbana in the Bid and Contract Documents and based on the submitted unit prices.

The party to whom the Contract is awarded will be required to execute the Contract Forms and obtain the Contract Bond within fifteen (15) calendar days after the contract has been mailed to the Bidder. **The effective date of the Contract Bond shall not precede the date of the Contract.** The Notice of Award shall be accompanied by the necessary Contract forms and Contract Bond forms. In case of failure of the Bidder to execute the Contract, the Owner may at his/her option consider the Bidder in default, in which case the Bid Bond accompanying the proposal shall become the property of the Owner.

The Owner within fifteen (15) days of receipt of acceptable Contract Bond and Contract signed by the party to whom the Contract was awarded shall sign the Contract and return to such party an executed duplicate of the Contract. Should the Owner not execute the Contract within such period, the Bidder may by written notice withdraw his/her signed Contract. Such notice of withdrawal shall be effective upon receipt of the notice by the Owner.

The Notice to Proceed shall be issued within fifteen (15) days of the execution of the Contract by the Owner. Should there be reasons why the Notice to Proceed cannot be issued within such period, the time may be extended by mutual agreement between the Owner and Bidder. If the Notice to Proceed has not been issued within the fifteen (15) day period or within the mutually agreed upon, the Bidder may terminate the Contract without further liability on the part of either party. The Bidder shall begin work within 15 days of receipt of the Notice to Proceed.

The Owner may make such investigations as (s)he deems necessary to determine the ability of the Bidder to perform the Work, and the Bidder shall furnish to the Owner all such information and data for this purpose as the Owner may request. The Owner reserves the right to reject any Proposal if the evidence submitted by, or investigation of, such Bidder fails to satisfy the Owner that such Bidder is properly qualified to carry out the obligations of the Contract and to complete the Work contemplated therein. The low Bidder shall supply the names and addresses of major material suppliers and subcontractors when requested to do so by the Owner.

Prior to commencement of the work, the Contractor shall purchase and maintain during the term of the Project, such insurance as will protect him/her, the Owner, and the Engineer from claims arising out of work described in this contract and performed by the Contractor, Subcontractor(s), or Sub-subcontractor(s). See General Conditions for insurance requirements.

City of Urbana and State of Illinois Sales Tax and Federal Excise taxes are not applicable to this project and must be excluded. The Urbana City Clerk, upon request, will execute the exemption certificates in connection with all orders when Federal Excise Tax would otherwise be due.

The Engineer is the City Engineer, 706 South Glover Avenue, Urbana, Illinois, or his/her designee.

Construction is to be performed within City rights-of-way and easements.

All applicable laws, ordinances, and the rules and regulations of all authorities having jurisdiction over construction of the project shall apply to the contract throughout.

The City of Urbana reserves the right to reject any and all bids, to waive any irregularities or informalities in the bids, to continue the letting from time to time as deemed necessary and to make any award deemed to be in the best interest of the City of Urbana.

## **PART 2 – GENERAL CONTRACTUAL CONDITIONS**

### **2.1 Correlation of Contract Documents**

The following documents are a part of the Contract and are incorporated by reference herein:

1. Properly executed Change Orders
2. Addenda issued during bidding
3. Information for Bidders (Part 1)
4. General Conditions (Part 2)
5. Special Provisions (Part 3)
6. Plans and Drawings approved by the City Engineer
7. Supplemental Conditions or Specifications
8. Standard Specifications as described below
9. Contract Bond
10. Certificates of Insurance

In the event of conflict with these Contract Documents and unless otherwise stated, the language within the lower number document shall take precedence over the higher number document.

The project shall be governed by the Standard Specifications for Road and Bridge Construction, adopted April 1, 2016, and the Supplemental Specifications and Recurring Special Provisions, adopted January 1, 2021, prepared by the Illinois Department of Transportation. These specifications are hereafter referred to as Standard Specifications.

The General Conditions and Special Provisions contain modifications and additions to the Standard Specifications and to the Supplemental Specifications and Recurring Special Provisions. In case of a conflict, Article 105.05 of the Standard Specifications shall be followed.

The Manual on Uniform Traffic Control Devices prepared by the Department of Transportation of the State of Illinois, 2009 Edition, and applicable traffic control standards approved by the Illinois Department of Transportation shall govern all items and requirements relating to traffic safety and control around the construction sites.

Highway Standards prepared by the Illinois Department of Transportation shall provide details of standard designs of various appurtenances that may be referenced in the plans. The Highway Standards shall be referenced by standard number, which includes a revision number. The Highway Standards number with the revision number listed in the Plan Set shall hold precedence over the Highway Standards listed elsewhere in the plans or Contract Documents.

### **2.2 Authorized Variations in Work**

The ENGINEER may authorize minor variations in the work from the requirements of the Contract Documents, which do not involve a significant adjustment in the Contract Price or the Contract Time and are consistent with the overall intent of the Contract Documents. These may be accomplished by a Field Order and will be binding on the OWNER, and also on the CONTRACTOR who shall promptly perform the Work involved. If the CONTRACTOR believes the Field Order justifies an increase in the Contract Price or an extension of the Contract Time and the parties are unable to agree as to the

amount or extent thereof, the CONTRACTOR may make a claim therefore as provided in Section 109 of the STANDARD SPECIFICATIONS.

### **2.3 Payments to Contractors**

This Contract is a unit price project, and the CONTRACTOR and the ENGINEER will agree on the quantities of each type of work performed. Payment to the CONTRACTOR will be made monthly upon receipt of invoices submitted to the ENGINEER by the CONTRACTOR.

Section 109 of the STANDARD SPECIFICATIONS shall apply for measurement and payment on the project. Article 109.07(a) shall specifically apply for amounts retained on the project.

Payment will be made by check; no payments will be made with bonds.

### **2.4 Protection of Workers**

All BIDDERS are reminded that the Occupational Safety and Health Administration of the U.S. Department of Labor (OSHA) has certain requirements pertaining to protection of workers when working with hazardous chemicals, when working in construction zones or other work to be performed under this Contract. It is pointed out that it is fully the CONTRACTOR'S responsibility to comply with these requirements and the City will not accept any extra charges for this compliance or any responsibilities for non-compliance by the CONTRACTOR.

### **2.5 Pre-Construction Meeting**

As soon as possible after receipt of the Notice to Proceed, the ENGINEER will schedule a Pre-construction Meeting for the project. The CONTRACTOR shall have his General Superintendent and Jobsite Superintendent present at the appropriate meeting to discuss all details of the project. At these meetings, the CONTRACTOR shall submit for approval information and drawings where appropriate on all major equipment and materials planned for use on the projects to the ENGINEER for approval. Information shall be included on a minimum of the following items:

- A. List of Subcontractors and Material Suppliers
- B. Shop Drawings
- C. Erosion Control Plan and Inlet Filter Systems
- D. Construction Staging and Access to Properties
- E. Traffic Control Plan
- F. Progress Schedule

### **2.6 Guarantee Period**

The CONTRACTOR shall warrant all work performed for a period of one (1) year from the date of completion and acceptance by the OWNER.

### **2.7 Responsibility for Damage Claims**

The CONTRACTOR shall indemnify and save harmless the OWNER, the ENGINEER, their officers, employees and agents, from all suits, actions or claims of any character including costs and attorney's fees, brought because of any injuries or damages received or sustained by any person, persons, or property on account of the operations of said CONTRACTOR; or on account of, or in consequence of, any neglect in safeguarding the work; or through the use of unacceptable materials in constructing the work; or because of any act or omission, neglect, or misconduct of said CONTRACTOR; or because of any claims or amounts recovered for any infringement of patent, trademark, or copyright; or from any

claims or amounts arising or recovered under the "Worker's Compensation Act", or any other law, ordinance, order or decree; and so much of the money due said CONTRACTOR under and by virtue of the CONTRACT as shall be considered necessary by the OWNER for such purposes may be retained for the use of the OWNER; or in case no money is due, the CONTRACTOR'S surety shall be held until such suits, actions or claims have been settled and suitable evidence to that effect furnished to the OWNER.

Any CONTRACTOR'S duty to indemnify the OWNER provided for in this Contract or in the STANDARD SPECIFICATIONS shall be to the greatest extent allowed by law.

## **2.8 Insurance**

### **A. Limitation of Liability**

The CONTRACTOR affirmatively represents that (s)he is skilled and experienced in the use and interpretation of Drawings and Specifications such as those included in the CONTRACT DOCUMENTS. Further, (s)he also affirmatively represents that (s)he has carefully reviewed the Drawings and Specifications of this CONTRACT and that (s)he has based his/her BID solely on these Documents, not relying in any way on any explanation or interpretation, oral or written, from any other source.

Unless a CONTRACTOR shall give written notice to the ENGINEER of any ambiguities contained in the Drawings and Specifications prior to the submission of its Bid, the CONTRACTOR agrees that it shall be conclusively presumed that the CONTRACTOR has exercised his/her aforementioned skill and experience and found the Drawings and Specifications sufficient and free from ambiguities, errors, or omissions for the purpose of determining its Contract Bid Price for the performance of the Work in conformity with the Drawings and Specifications.

If the CONTRACTOR is required to do extra work not shown in the CONTRACT DOCUMENTS or which the CONTRACTOR could reasonably not have been expected to discover by exercising his/her aforementioned skill and experience, an equitable adjustment in the CONTRACT BID price will be made as provided in the "STANDARD SPECIFICATIONS".

### **B. Insurance Specifications**

#### **1. Insurance Required of the CONTRACTOR**

Prior to commencement of the work, each CONTRACTOR shall purchase and maintain during the term of the Project such insurance as will protect him/her, the OWNER(s) and the ENGINEER(s) from claims arising out of the work described in this Contract and performed by the CONTRACTOR, SUBCONTRACTOR(S) or SUB-SUBCONTRACTOR(S) consisting of:

- a. Worker's Compensation Insurance including Employer's liability to cover employee injuries or disease compensable under the Worker's Compensation Statutes of the states in which work is conducted under this CONTRACT; disability benefit laws, if any; or Federal compensation acts such as U.S. Longshoremen or Harbor Workers Maritime Employment, or Railroad Compensation Act(s), if applicable. Self-insurance plans approved by the regulatory authorities in the state in which work on this Project is performed are acceptable.
- b. A Comprehensive General Liability policy to cover bodily injury to persons other than employees and for damage to tangible property, including loss of use thereof, including the following exposures.
  - (1) All premises and operations

- (2) Explosion, collapse and underground damage
  - (3) CONTRACTOR'S Protective coverage for independent CONTRACTORS or SUBCONTRACTORS employed by him/her
  - (4) Contractual Liability for the obligation assumed in the Indemnification or Hold Harmless agreement found in the General Conditions section of this Contract
  - (5) The usual Personal Liability endorsement with no exclusions pertaining to employment
  - (6) Products and Completed Operations coverage. This coverage shall extend through the Contract guarantee period.
- c. A Comprehensive Automobile Liability policy to cover bodily injury and property damage arising out of the Ownership, maintenance or use of any motor vehicle, including owned, non-owned and hired vehicles. In light of standard policy provisions concerning (1) loading and unloading and (2) definitions pertaining to motor vehicles licensed for road use vs. unlicensed or self-propelled construction equipment, it is strongly recommended that the Comprehensive General Liability and the Comprehensive Auto Liability be written by the same insurance carrier, though not necessarily in one policy.
- d. The CONTRACTOR will purchase for the OWNER an OWNER'S Protective Liability policy or name the OWNER as an additional insured on the CONTRACTOR'S policies to protect the OWNER, the ENGINEER, their consultants, agents, employees and such public corporations in whose jurisdiction the work is located for their contingent liability for work performed by the CONTRACTOR or the SUBCONTRACTOR(S) under this CONTRACT.
- e. The CONTRACTOR shall purchase a Builder's Risk-Installation Floater in a form acceptable to the OWNER covering property of the Project for the full cost of replacement as of the time of any loss which shall include, as named insured, (1) the CONTRACTORS, (2) all SUBCONTRACTORS, (3) all Sub-SUBCONTRACTORS, (4) the OWNER, the ENGINEER(S) or Architect(s), as their respective interest may prove to be at the time of loss, covering insurable property which is the subject of this CONTRACT, whether in place, stored at the job site, stored elsewhere, or in transit at the risk of the insured(s).

Coverage shall be affected on an "All Risk" form including, but not limited to, the perils of fire, wind, vandalism, collapse, theft and earthquake, with exclusions normal to the coverage. With approval of the ENGINEER, the CONTRACTOR may arrange for such deductibles as (s)he deems to be within his/her ability to self-assume, but (s)he will be held solely responsible for the amount of such deductible and for any co-insurance penalties. Any insured loss shall be adjusted with the OWNER and the CONTRACTOR and paid to the OWNER and CONTRACTOR as Trustee for the other insured.

- f. Umbrella or Excess Liability

The OWNER or its representative may, for certain projects, require limits higher than those stated under "Limits of Liability" below. The CONTRACTOR is granted the option of arranging coverage under a single policy for the full limit required or by a combination of underlying policies with the balance provided by an Excess or Umbrella Liability policy equal to the total limit(s) requested. Umbrella or Excess policy wording shall be at least as broad as the primary or underlying policy(ies) and shall apply both to the CONTRACTOR'S general liability and to his/her automobile liability insurance.

- g. All insurance policies shall be written on an occurrence basis.

2. Limits of Liability

The required limits of liability of insurance coverages required under "Insurance Required of the CONTRACTOR" above shall be not less than the following:

a. Worker's Compensation		
	Coverage A – Compensation	\$1,000,000.00
	Coverage B - Employer's Liability	\$ 1,000,000.00
b. Comprehensive General Liability		
	Bodily Injury – Each Occurrence	\$1,000,000.00
	Bodily Injury - Aggregate (Completed Operations)	\$1,000,000.00
	Property Damage - Each Occurrence	\$ 500,000.00
	Property Damage – Aggregate or Combined Single Limit	\$ 500,000.00 \$1,000,000.00
c. Comprehensive Automobile Liability		
	Bodily Injury - Each Person	\$ 500,000.00
	Bodily Injury - Each Occurrence	\$ 500,000.00
	Property Damage – Aggregate or Combined Single Limit	\$ 500,000.00 \$1,000,000.00
d. OWNER'S Protective		
	Bodily Injury - Each Occurrence	\$1,000,000.00
	Property Damage - Each Occurrence	\$ 500,000.00
	Property Damage – Aggregate or Combined Single Limit	\$1,000,000.00 \$1,500,000.00
e. Builder's Risk – Installation Floater		Cost to replace at time of loss.
f. Umbrella or Excess Liability		\$2,000,000.00
g. Railroad Protective Liability		Set by Railroad(s)

3. Insurance - Other Requirements

a. Notice Of Cancellation Or Intent Not To Renew

Policies will be endorsed to provide that at least thirty (30) days written notice shall be given to the OWNER and to the ENGINEER of cancellation or of intent not to renew.

b. Evidence of Coverage

Prior to commencement of the work, the CONTRACTOR shall furnish to the OWNER, Certificates of Insurance in force. The OWNER reserves the right to request complete copies of policies if deemed necessary to ascertain details of coverage not provided by the certificates. Such policy copies shall be "Originally Signed Copies," and so designated. The acceptance and filing by the ENGINEER and/or the OWNER of a Certificate or Certificates of Insurance disclosing coverage which does not meet the requirements of these specifications shall not constitute a waiver of those requirements by the OWNER nor operate to release the CONTRACTOR from his/her obligation to provide the required insurance coverage.

**C. Qualification of Insurers**

All insurance carried by the CONTRACTOR to meet these requirements shall be provided by insurance companies legally authorized to provide the respective coverage in the State of Illinois, and which are registered with the Illinois Department of Insurance for providing said coverage.

#### **D. Subrogation Clause**

The following subrogation clause shall appear in all policies of insurance, "Subrogation Clause - it is hereby stipulated that this insurance shall not be invalidated should the insured waive in writing prior to a loss any or all right of recovery against any part for loss occurring to the property described herein."

#### **2.9 Correspondence and Communication**

The CONTRACTOR'S jobsite superintendent shall keep a cellular telephone in his personal possession for communication between the ENGINEER and CONTRACTOR. The phone shall be operational during all working hours and shall operate from an Urbana-Champaign local telephone number. The same phone shall remain at all times with the jobsite supervisor even if the superintendent is temporarily absent from the jobsite.

#### **2.10 Employment of Illinois Workers During Periods of Excessive Unemployment**

Pursuant to the "Employment of Illinois Workers on Public Works Act" of the State of Illinois (30 ILCS 570/0.01 *et seq.*), as amended from time to time, whenever there is a period of excessive unemployment in Illinois, which is defined herein as any month immediately following two (2) consecutive calendar months during which the level of unemployment in the State of Illinois has exceeded 5 percent as measured by the United State bureau of Labor Statistics in its monthly publication of employment and unemployment figures, the Contractor shall employ only Illinois laborers. "Illinois laborer" means any person who has resided in Illinois for at least 30 days and intends to become or remain an Illinois resident.

Other laborers may be used when Illinois laborers as defined herein are not available or are incapable of performing the particular type of work involved, if so certified by the Contractor. The Contractor may place no more than three (3) of his regularly employed non-resident executive and technical experts, who do not qualify as Illinois laborers, to do work encompassed by this Contract during periods of excessive unemployment.

#### **2.11 Preference to Veterans Act**

The Contractor shall comply with the "Veterans Preference Act" of the State of Illinois" of the State of Illinois, as amended from time to time, which gives preference to veterans of the United States military and naval service in appointments and employment upon public works by, or for the use of, the State or its political subdivisions (330 ILCS 55/0.01 *et seq.*) in the employment and appointment to fill positions in the construction, addition to, or alteration of any public works.

#### **2.12 Fair Employment Practices Act**

Attention of bidders is directed to the provisions of the "Fair Employment Practices Act" of the State of Illinois approved July 1, 1961, as amended from time to time, and particularly the provisions of Section 4 thereof, concerning Public Contracts. The Contract that is to be entered into shall be conditioned as provided by law.

#### **2.13 Illinois Human Rights Act**



Attention of bidders is directed to the provisions of the Illinois Human Rights Act (775 ILCS 5/1-101 *et seq.*) of the State of Illinois approved December 6, 1979, as amended from time to time, and particularly the provisions of Section 2-501 thereof, concerning Public Contracts. The Contract, which is to be entered into, shall be conditioned as provided by law.

#### **2.14 Illinois Prevailing Wage Act**

Attention of bidders is directed to “An Act Regulating Wages of Laborers, Mechanics, and Other Workmen Employed Under contracts for Public Work” enacted by the 62nd General Assembly, approved June 26, 1941, (also known as the “Prevailing Wage Act” [820 ILCS 130/0.01 *et seq.*]), as amended from time to time, and in accordance herewith there shall be paid to each workman engaged in contract work, not less than the prevailing wage including fringe benefits as determined by the Secretary of Labor. As required by the Illinois Prevailing Wage Act, the general prevailing rate of wages in the locality for each craft or type of worker or mechanic needed to execute the contract or perform such work, also the general prevailing rate for legal holiday and overtime work, as ascertained by the City of Urbana, shall be paid for each craft or type of worker needed to execute the contract or to perform such work. These requirements apply to any and all sub-contractors on the job. Bidders shall be subject to any change in rates, which may be effective at the time the contract is awarded. Pursuant to the Illinois Prevailing Wage Act. The Contractor shall pay its workers not less than the most current prevailing rates as of the date of award of the project and comply with the requirements of the aforementioned statutes, including, but not limited to, the keeping of accurate records showing the names and occupation of all laborers, workers, and mechanics employed on this Contract, which records show the actual hourly wages paid to each such person.

## **PART 3 - TECHNICALSPECIAL PROVISIONS**

The following Special Provisions supplement the "Standard Specifications for Road and Bridge Construction", adopted April 1, 2016, the latest edition of the "Illinois Manual on Uniform Traffic Control Devices for Streets and Highways" and the "Manual of Test Procedures for Materials" in effect on the date of invitation for bids, and the "Supplemental Specifications and Recurring Special Provisions," adopted January 1, 2021, which apply to and govern the construction of **City Section 17-00592-00-RS** in the City of Urbana, Champaign County, Illinois and in case of conflict with any part or parts of said Specifications, the said Special Provisions shall take precedence and shall govern.

### **3.1 Introduction and Project Description**

The proposed improvements are located on Lincoln Avenue in the City of Urbana, Champaign County, Illinois. The proposed improvements commence north of Green Street and proceed in a northerly direction to a terminus south of University Avenue.

- The work under this contract shall consist of the construction of:
- hot-mix asphalt surface removal and replacement;
- pavement patching;
- curb and gutter removal and replacement;
- sidewalk repair;
- other work necessary to complete construction as shown in the plans and required by the specifications.

The work shall include all labor, materials, tools and equipment necessary for the proper execution and completion of the work as shown in the plans and as specified. It shall also include all work not specifically mentioned but which is reasonably and properly inferable and necessary for the completion of the work.

### **3.2 Structures and Utilities Encountered**

Various underground and surface structures may or may not be shown in the plans. The locations and dimensions of such structures where shown do not purport to be absolutely correct. The structures are plotted in the plans for the information of the Contractor, but information so given is not to be construed as a representation that such structures will be found or encountered exactly as plotted. Other structures may also be encountered which are not shown in the plans.

The Contractor shall maintain in operating condition all utilities encountered in this work. The Contractor shall be entirely responsible for all injuries to water pipes, electric conduits; street lighting cables; existing drains or sewers; gas pipes; and poles carrying current, telephone or telegraph lines during the prosecution of the work and shall be liable for damages to public or private property resulting there from, which amount may be deducted from any monies due him/her for work done. Any damage to existing utilities as a result of the construction shall be repaired to the satisfaction of the owner of the utility at the Contractor's expense, whether or not said utilities are shown in the details. Existing utilities may be relocated with the approval of the owner of the utility. This relocation shall be at the Contractor's expense, done according to the requirements of the utility owner and shall be sufficient to clear the proposed improvements.

City (i3 Broadband) fiber optics cable maybe located within the construction limits. The Contractor is hereby notified that the tolerance zone for this cable locate is 18 inches either side of field locates. The Contractor will use hand-digging methods when excavation is required in the tolerance zone. If the Contractor cuts the fiber optics cable, (s)he shall immediately notify the Engineer and the Public Works

Department at 384-2342. The Contractor shall be responsible for all costs incurred by the City's repair crews in repairing cuts, which includes travel time, labor, equipment, and materials. The Contractor will be billed separately by the Public Works Department.

Before beginning work, the Contractor shall contact each company, municipality, or agency maintaining utilities in the City of Urbana and request their assistance in field locating their utilities in that area. The Contractor, however, shall be solely responsible for the location of utilities.

The following is a listing of those companies, municipalities, or agencies known to have utilities in the City of Urbana:

1. Illinois American Water (water)  
1406 North Cardinal Court  
Urbana, Illinois 61802  
217-373-3234
2. Ameren Illinois (electric and gas)  
1112 West Anthony Drive  
Urbana, Illinois 61802  
217-383-7350
3. AT&T Illinois (communications)  
201 S. Neil Street  
Champaign, Illinois 61820  
217-398-7979
4. Volo Broadband (communications)  
822 Pioneer St.  
Champaign, Illinois 61820  
217-367-8656
5. i3 Broadband (UC2B) (communications)  
602 High Point Lane  
309-689-0711
6. Comcast Communications (communications)  
2000 N. Neil St., St #1010  
Champaign, Illinois 61820  
217-383-8030
7. Urbana-Champaign Sanitary District (sanitary sewer interceptors)  
1100 East University Avenue  
P.O. Box 669  
Urbana, Illinois 61803  
217-367-3409
8. City of Urbana Public Works Department (storm and sanitary sewers, street lights, traffic signals)  
706 South Glover  
Urbana, Illinois 61802  
217-384-2342

For field locations of all utilities call "JULIE" at 800-892-0123 or 811.

### **3.3 Cooperation between Contractors and Utilities**

Various departments of the City of Urbana, other contractors, and utilities may be performing work in and around the work area. The Contractor shall coordinate his/her work with the work of others. The utility companies will remove, relocate, construct or adjust utilities as noted on the Plans and in these Special Provisions. Cooperation with adjacent landowners will be required.

Coordination of the Contractor's activities with other activities in the area shall be considered incidental to the Contract and no additional compensation shall be allowed for any inconveniences or delays that might be caused.

### **3.4 Existing Property Corner and Control Point Monuments**

Property corner monuments and survey control points shall be protected by the Contractor. Any property corner or survey monuments or construction control survey monuments which are disturbed by the Contractor shall be restored by the Contractor utilizing a registered professional land surveyor.

The expense for protection, preservation, or restoration of the property corner or survey monuments, shall be considered incidental to the Contract and no additional compensation will be allowed.

### **3.5 Easements and Rights-of-Way**

All work to be performed in accordance with these specifications shall be performed on easements or rights-of-way that have been granted to the City of Urbana. Easements, are on file at the office of the Engineer and may be examined there by the Contractor at his/her convenience. The easements are also shown in their locations in the Plan Set.

### **3.6 Sequence of Construction**

Prior to beginning construction operations, the Contractor shall submit to the Engineer for approval, a sequence of construction operations for the project. See site specific commentary under Traffic Control and Protection, (Special) for the recommended sequence of construction and other traffic control concerns. The Contractor should plan the construction stage so that all work necessary to open the pavement to local traffic is completed before beginning the next stage. Deviations from the approved sequence will be permitted upon written permission of the Engineer after preconstruction conference submittal and review by City staff.

### **3.7 Construction and Maintenance Noise**

The contractor shall adhere to the City of Urbana noise ordinance Section 16-7 in scheduling work windows. According to the ordinance, it is unlawful to use any construction equipment to perform any construction or maintenance work associated with this project at any time between the hours noted below where such construction equipment is operated within six hundred (600) feet of any residence, hospital, or place of worship.

- 8:00 pm through 7:00 am Monday through Saturday
- 8:00 pm Saturday through 12:00 pm (noon) Sunday
- 8:00 pm Sunday through 7:00 am Monday

This time regulation shall not apply to sawing contraction joints, maintenance or operation of safety and traffic control devices such as barricades, signs and lighting, or to construction of an emergency nature.

Any arrow boards used for traffic control that is to remain in place overnight shall be of a non-motorized type in order to eliminate noise and comply with the City's Ordinance.

Exception: Any machine or device or part thereof which is regulated by or becomes regulated by Federal or State of Illinois noise standards shall conform to those above standards. Such equipment shall be operated as designated above.

### **3.8 Brooming Roadways**

All traffic lanes which are closed to through traffic during construction shall be broomed or swept free of all loose gravel or construction debris before the traffic lane is reopened to traffic. The Engineer shall approve all roadway surface conditions before they are opened to traffic.

The cost of complying with this Special Provision will not be paid for separately but shall be considered incidental to the various traffic control items and no additional compensation will be allowed.

### **3.9 Commitments**

There are no commitments beyond the previously specified easements that pertain to the construction of this improvement.

### **3.10 Construction on Private Property**

Whenever excavation is made within a temporary or permanent construction easement, including tree planting easements, on private property for driveways, sidewalks, steps, retaining walls, utility connections, tree plantings or other construction, the topsoil disturbed by the excavation operations shall be restored as nearly as possible to its original position and the whole area involved in the construction operation shall be left in a neat and presentable condition.

The Contractor shall use reasonable care to avoid disturbing portions of private property not necessary to the construction operations. If, in the judgment of the Engineer, areas are disturbed unnecessarily, the Contractor shall restore these areas at his own expense. The Contractor shall not pile excavated material outside the limits of the R.O.W. upon adjacent private property without the written consent of the property owner and the Engineer.

The cost of compliance with this Special Provision will not be paid for separately but shall be considered incidental to the various pay items of the proposed construction involved and no additional compensation will be allowed.

### **3.11 Curb and Gutter**

Whenever it is necessary to make a smooth connection between the proposed gutter or curb and gutter and the existing curb and gutter the Contractor shall vary the dimensions of the proposed gutter or curb and gutter as directed by the Engineer.

Materials shall meet the requirements of Section 606.02 of the Standard Specifications and the following:

- Dowel bars and reinforcement bars (tie bars) shall be epoxy coated.

Longitudinal joints shall be in accordance with various longitudinal joint details found in the Highway Standard 606001.

The cost of compliance with this Special Provision will not be paid for separately but shall be considered incidental to the various pay items of the proposed construction involved and no additional compensation will be allowed.

### **3.12 Type B Curb Removal**

This work shall consist of complete removal of existing curb, median curb, and median concrete in accordance with Section 440 of the Standard Specifications with the exception herein.

The cost of complying with this Special Provision will not be paid for separately but shall be considered paid for in the CURB REMOVAL and no additional compensation will be allowed.

### **3.13 Cutting Existing Pavement**

At locations where it is necessary to cut bituminous concrete surfaces, concrete pavement, concrete or bituminous concrete driveway pavement, concrete sidewalk, or concrete curb and gutter, where it will abut the proposed new construction, a uniformly straight cut shall be obtained by the use of a diamond concrete saw. The use of pneumatic tools to make these cuts will not be allowed.

The cost of compliance with this Special Provision will not be paid for separately but shall be considered incidental to the various pay items of the proposed construction involved and no additional compensation will be allowed.

### **3.14 Existing Trees and Shrubs**

Existing trees and shrubs in the area of the project site shall be protected from damage. Temporary fence shall be erected, as shown on the City of Urbana Tree Protection Zone detail and at the direction of the Engineer, to protect trees and shrubs to remain. Once the fence is installed no construction activity or material will be allowed within the enclosure. The fence shall not be removed until the completion of the project.

The Contractor shall be liable for damages for trees and shrubs which were to have been protected as directed by the Engineer, unless such damages are determined by the Engineer to have been unavoidable. Such trees or shrubs shall immediately be repaired or replaced as directed in Section 201.07 of the Standard Specifications for Road and Bridge Construction at the cost of the contractor.

Tree protection fencing will not be paid for separately but shall be considered incidental to the various pay items of the proposed construction involved and no additional compensation will be allowed.

### **3.15 Hand Grading**

Grading shall be done by hand around light poles, utility poles, sign posts, shrubs, trees or other natural or man-made objects where shallow fills or cuts are adjacent to the items. It is the intent that the limits of construction be such as to preserve in the original state as much area of temporary easements as possible. The decision as to items to remain in place shall be as directed by the Engineer.

The cost of compliance with this Special Provision will not be paid for separately but shall be considered incidental to the various pay items of the proposed construction involved and no additional compensation will be allowed.

### **3.16 Removing and Resetting Signs**

This work shall consist of the removal, relocation, and resetting of traffic signs which interfere with construction operations. This work shall also include the removal, relocation, and resetting of existing street signs, street name signs, wood signs and other miscellaneous signs which interfere with construction operations. This work shall be performed in accordance with the applicable portions of Article 107.25 of the Standard Specifications and as directed by the Engineer. The intent of this specification is for the contractor to remove, temporarily relocate and/or permanently reset existing signs which interfere with the construction operations. The Engineer will determine which signs will be removed, temporarily relocated and permanently reset.

The cost of compliance with this Special Provision will not be paid for separately but shall be considered incidental to the various pay items of the proposed construction involved and no additional compensation will be allowed.

### **3.17 Stockpile Areas**

Short-term stockpile of backfill and crushed stone material will be allowed only where directed by the Engineer. Temporary stockpiles of materials shall not interfere with local and through traffic as described on the traffic control plans. Stockpiles of materials shall not be allowed on private property (unless permission is granted by owner in writing), outside street rights-of-way; and shall not be allowed to block private driveways or sidewalks. Any grass area that is damaged by stockpiled material shall be repaired by either seeding or sodding as determined by the Engineer.

These areas shall not be measured for payment and the Contractor shall repair them at his/her own expense.

### **3.18 Traffic Control and Protection, (Special)**

This work shall consist of providing the necessary traffic control personnel and devices and the installation, maintenance, relocation and removal of these devices during construction of the improvement.

The City of Urbana will be responsible for notifying the public, the United States Postal Service and the emergency service agencies for road closures and changes in the traffic maintenance plans.

The contractor shall notify the City 72 hours in advanced of implementing new or adjusting existing traffic control.

#### **Traffic Control Plan**

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

Special attention is called to Articles 107.09, 107.14, 107.15, 107.25, and Sections 701, 702 and 703 of the Standard Specifications, the following Highway Standards, listed Supplemental Specifications and Recurring Special Provisions and Special Plan Details and Notations.

#### Highway Standards

701006, 701602, 701606, 701311, 701427, 701501, 701502, 701602, 701606, 701611, 701701, 701801, 701901

### Special Provisions

#### LRS 3 Work Zone Traffic Control Surveillance

#### **Suggested Paving Sequence of Operations**

1. Remove/replace curb and gutter
2. Remove/replace medians
3. Remove/replace sidewalk and sidewalk ramps
4. Patch pavement.
5. Perform hot-mix asphalt surface removal.
6. Place leveling binder.
7. Place longitudinal joint sealant.
8. Place surface course.
9. Perform all pedestrian push-button and signal loop changes/installation
10. Place striping and all lanes opened to traffic.

#### **Maintenance of Traffic**

It is the City's intention to keep all roads and side roads open to traffic at all times with a minimum of one-lane two-way flagged traffic as shown on the applicable Highway Standards and as directed by the Engineer.

With the approval of the Engineer, the Contractor may modify the suggested construction sequence and attendant traffic control procedures as shown. The Contractor shall submit his/her proposed sequence of operations and any necessary revisions to attendant traffic control to the Engineer for approval prior to actual construction operations begin.

#### **Access**

If a proposed patch or driveway remove/replacement interferes with access to a private or commercial driveway, the driveway shall be out of service for a maximum of 1 day, and the contractor shall give at least 48 hours advanced notice to the Engineer of the driveway closure. If a private home or commercial business has one (1) entrance, all attempts must be made to do only half the drive (while maintaining access) at a time. There are locations in the plans that are called out specifically to do this as a mandatory requirement. If a private home or commercial business has two (2) or more entrances, at least one (1) entrance must remain open at all times.

#### **Traffic Control Surveillance**

Traffic control surveillance will be required, but will not be paid for separately on this project. The special provision check sheet LRS 3 "Work Zone Traffic Control Surveillance" will apply for the inspection of traffic control devices on this project.

#### **Quality of Traffic Control Devices**

Traffic Control Devices include signs and their supports, signals, pavement markings, barricades with sand bags, channelizing devices, warning lights, arrow boards, flaggers, or any device used for the purpose of regulating, detouring, warning or guiding traffic through or around the construction zone. Only signs, barricades, vertical panels, drums, and cones that meet the requirements of the Department's "Quality Standard for Work Zone Traffic Control Devices 2010" shall be used on this project. Copies of this publication are available from the City Engineer for the Contractor's use prior to the initial setup. At



the time of the initial setup or at the time of major stage changes, 100% of each type of device (cones, drums, barricades, vertical panels or signs) shall be acceptable as defined by the referenced publication. Throughout the duration of the project, the percentage of acceptable devices may decrease to 75 percent only as a result of damage and/or deterioration during the course of the work. Work shall not begin until a determination has been made that the traffic control devices meet the quality required in this standard. The Contractor is required to conduct routine inspections of the work site at a frequency that will allow for the prompt replacement of any traffic control device that has become displaced or damaged to the extent that it no longer conforms to the shape, dimensions, color and operational requirements of the MUTCD and the Traffic Control Standards, or that it no longer presents a neat appearance to motorists. A sufficient quantity of replacement devices, based on vulnerability to damage, shall be readily available to meet this requirement.

### **Changeable Message Signs**

Portable changeable signs shall be erected at each location at the beginning and end of project five (5) days prior to the start of construction to forewarn motorists of the impending construction. This work shall be performed in accordance with Article 701 of the Standard Specifications except reference to supplying equipment to run the sign from a remote location and reference to the basis of payment shall be deleted. The signs shall remain in place and operational until such time that all traffic control devices are in place and construction has begun. The sign message will be provided by the Engineer.

### **Placement of Traffic Control Signs and Devices**

All traffic control devices shall remain in place until specific authorization for relocation or removal is received from the Engineer. The Contractor shall ensure that all traffic control devices installed by him/her are operational, functional, and effective 24 hours a day, including Sundays and holidays.

### **Solar Powered Arrow Boards**

Arrow boards shall be used as required by the Standards and as directed by the Engineer. All arrow boards to be used on this project shall be solar powered

### **Signs**

All provisions of Article 107.25 of the Standard Specifications shall apply except the third paragraph shall be revised to read: "The Contractor shall maintain, furnish, and replace at his/her own expense, any traffic sign or post which has been damaged or lost by the Contractor or a third party."

### **Placement and Removal of Signs and Barricades**

Placement of all signs and barricades shall proceed in the direction of flow of traffic. Removal of all signs and barricades shall start at the end of the construction areas and proceed toward oncoming traffic unless otherwise directed by the Engineer.

All traffic control devices and barricades throughout the project shall remain in place until the entire project is substantially complete, or as otherwise directed by the Engineer.

### **Pedestrian Sidewalk Control**

The Contractor shall install, maintain, and remove necessary signs and barricades needed to direct pedestrians to usable sidewalks and walkways during the construction, and as directed by the Engineer.

At each point of closure, a sufficient number of barricades shall be used to completely close the sidewalk to pedestrian movement. Where construction activities involve sidewalks on both sides of the street, the work shall be staged so that both are not out of service at the same time.

### **Temporary Sidewalks**

The Contractor may restrict pedestrian access to the project during working hours by utilizing Highway Standard 701801. During non-working hours the Contractor shall allow for pedestrian access through the project site by constructing temporary sidewalks at locations where existing sidewalks have been removed or as directed by the Engineer. The temporary sidewalk shall consist of coarse aggregate gradation CA-6 placed at a compacted depth of five (5) inches and minimum width of four (4) feet at locations and to the satisfaction of the Engineer. This work, including furnishing and placing the materials, as well as compaction, maintenance, removal, and subsequent disposal of the material in accordance with Article 202.03 of the Standard Specifications.

### **Public Safety and Convenience**

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 dispatch personnel, materials and equipment to correct any such deficiencies. The Contractor shall respond to any call from the City concerning any request for improving or correcting traffic control devices and begin making the requested repair within two hours from the time of notification.

The Contractor shall maintain entrances and side roads along the proposed improvement. Interference with traffic movements and inconvenience to owners of abutting property and the public shall be kept to a minimum. Any delays or inconveniences caused to the Contractor by complying with these requirements shall be considered as incidental to the contract and no additional compensation will be allowed.

### **Measurement and Payment**

All work prescribed and referenced herein shall be measured for payment at the contract lump sum price for TRAFFIC CONTROL AND PROTECTION, (SPECIAL). This price shall be considered payment in full for all labor, materials, transportation, handling and incidental work necessary to furnish, install, relocate, maintain and remove all traffic control devices as required by the traffic control plan, and as approved by the Engineer, for the duration of the contract. No separate payment will be made for complying with the provisions of 701006, 701311, 701427, 701501, 701502, 701602, 701606, 701611, 701701, 701801, and 701901.

### **3.19 ASR Prevention**

Alkali-Silica Reaction (ASR) in cast-in-place concrete has been recognized as a serious source of early distress in concrete pavements in Illinois. In order to prevent this concrete deterioration, steps have been taken in the current Portland Cement Concrete section of the Standard Specifications to address ASR and minimize the potential of future damage and early deterioration. These modifications are mostly in the area of mix designs, which includes higher Portland cement replacement with finely divided minerals and the use of ternary mix designs. The Contractor shall follow the Portland Cement Concrete requirements from the Illinois Department of Transportation.

The cost of compliance with this specification will not be paid for separately but shall be considered included in the various pay items of the proposed construction involved and no additional compensation will be allowed.

### **3.20 Sodding**

This work shall consist of preparing the seedbed, excavating, stockpiling, transporting, and placing the topsoil and sod as required. The work shall be in accordance with the applicable articles of Sections 211 and 252 of the Standard Specifications except as modified herein.

To prevent erosion, sodding should be completed as soon as possible after the completion of each stage of the project. The Engineer shall determine if temporary seeding should be done or if the permanent sodding should be done at the completion of each stage of construction.

#### **Materials**

All materials shall meet the requirements of Sections 211 and 252 of the Standard Specification except for the following:

The topsoil shall meet the requirements of Article 1081.05(a) of the Standard Specifications except that the topsoil shall be sifted and all deleterious material removed including dirt clods greater than 1" in diameter.

#### **Construction Requirements**

Before any sodding begins, all areas to be sodded shall have a minimum of 4" of agricultural topsoil applied. All areas prepared and ready for sodding shall be inspected and approved by the Engineer prior to sod application.

Five (5) Supplemental Waterings shall be applied under this contract for sodded areas as directed by the Engineer. One application of water will be required every two days or as directed by the Engineer depending on weather conditions, more or fewer supplemental waterings may be necessary. All watering described shall be done with spray applications. Water shall be applied at the rate of two (2) gallons per square yard per applications. An open-ended hose will not be acceptable. The method of watering shall meet the acceptance of the Engineer.

After the sodded areas are established the site shall be mowed as directed by the Engineer. The mowing shall be in accordance with Article 250.10 of the Standard Specifications and is considered incidental to the sodding.

#### **Measurement and Payment**

This work will be measured and paid for at the contract unit price per square yard for TOPSOIL FURNISH AND PLACE, of the specified thickness, and per square yard for SODDING, SALT TOLERANT in accordance with Sections 211 and 252 of the Standard Specifications. The supplemental watering will be measured and paid for at the contract price per unit for SUPPLEMENTAL WATERING.

Any additional sodding of bare areas after the initial sodding operations will not be paid for separately, but will be considered as included in the cost of the sodding pay items. The plan quantity for sodding includes the plan designated areas within the construction limits. The Contractor is advised that payment for sodding will be made for only those areas which were necessarily disturbed by construction operations as determined by the Engineer. Turfed areas beyond the construction limits which are unnecessarily disturbed by construction operations shall be sodded as directed by the Engineer at the Contractor's expense.

### **3.21 HMA Surface Removal for Subsequent Resurfacing**

Add the following after the first sentence in Article 440.04 of the Standard Specifications:

“When the depth extends to the surface of existing concrete pavement, patches, etc., the milling shall leave a rough texture to their surfaces. “

See District 5 Detail No. 44000080 Hot-Mix Asphalt Surface Correction

Add the following to Article 440.04 of the Standard Specifications:

“All milled surfaces shall be cleaned by the use of air jets, water jets, mechanical sweeper, hand brooms, or other approved methods, or as required by the Engineer, until the surface is free of dust, debris, millings and all loose or foreign matter. “

The cost of compliance with this Special Provision will not be paid for separately but shall be considered, as incidental to the various HOT-MIX ASPHALT SURFACE REMOVAL pay items and no additional compensation will be allowed.

### **3.22 Class C Patches**

This work shall consist of constructing pavement patches in accordance with the details in the plans, Section 442 of the Standard Specifications, and as directed by the Engineer.

Materials shall meet the requirements of Section 442.02 of the Standard Specifications and the following:

- Accelerator admixtures shall be the non-chloride type

Concrete mixes used for construction of all Portland Cement Concrete patching shall be a Class PP 2 mix in accordance with Section 1020 of the Standard Specifications of the Illinois Department of Transportation.

Concrete strength shall meet the requirements of Section 1020.04 of the Standard Specifications. Concrete that fails to meet the requirements shall be removed and replaced by the Contractor at no expense to the Owner in accordance with Section 106 of the Standard Specifications, unless written permission and acceptance from the Engineer is obtained.

All work shall be performed as shown on the standard drawings, the details at the end of these specifications, in accordance with Section 442 of the Standard Specifications, and as follows:

No broken concrete from removal operations shall remain on the right-of-way overnight.

When instructed by the Engineer patches shall be constructed prior to the HMA surface removal or shall match the existing HMA surface grade. As determined by the Engineer, the Contractor shall mill through the surface of concrete patches prior to HMA resurfacing.

When uncontrolled cracking occurs in the patching slab, the patch will be evaluated for acceptance in accordance with Article 420.05(c)(1).

The Contractor is responsible to guard fresh concrete until it sets and hardens sufficiently to prevent people from writing, walking, riding bicycles or otherwise marking or defacing the concrete in a permanent fashion. A permanent fashion is markings which cause depressions in the fresh concrete surface. Any concrete so marked will be removed and replaced by the Contractor and at the expense of the Contractor. The extent

of the patch to be removed shall be at the sole discretion of the Engineer.

This work shall be paid for at the contract unit price per square yard for CLASS C PATCHES of the type and thickness specified, which shall include the cost of performing the work as specified in the plans, as directed by the Engineer and specified herein; including any and all sawing, including wheel sawing full width and full depth of patch to be removed; removal and disposal of existing materials; and furnishing and installing of concrete materials.

### **3.23 National Pollution Discharge Elimination System Permit**

The “National Pollutant Discharge Elimination System Permit” (NPDES) **will not** be required for this project. The disturbance area for each project is less than one acre which determines the need for the permit. Disturbance is considered exposed soil due to clearing, grading, or excavation activities.

### **3.24 Brick Pavement Removal and Salvage**

This work shall consist of the removal of the existing brick pavement, any base course, excavation of the underlying subgrade to sufficient depth to allow construction of a 6” PCC base course, sand cushion, and salvaged paving bricks.

Contractor shall perform removal, salvaging, and hauling of the existing brick pavers at the locations shown in the plans. This removal item shall include only those street brick pavers not covered with an existing asphalt overlay. This work shall be done in accordance with the applicable portions of Section 440 of the Standard Specifications, and as directed by the Engineer. All street brick pavers are to be carefully removed by machine methods utilizing smaller equipment that will cause the least damage to the street pavers as they are removed. The Contractor shall employ removal methods that also minimize the amount of sub-base materials and other foreign objects being loaded with the bricks. The bricks not reused in construction shall then be hauled to the Urbana Wood-site on East Perkins Road adjacent to the south side of Interstate 74. The bricks shall be carefully dumped at the designated location within the Wood-site for cleaning and stockpiling by City forces at a later date.

This work shall be measured and paid for at the Contract unit price per Square Feet for BRICK PAVEMENT REMOVAL AND SALVAGE which price shall include all materials, equipment and labor to perform the work.

### **3.25 Brick Pavement**

This work shall consist of brick pavement restoration. Materials shall meet the requirements of Article 1003.01, Sections 1020 of the Standard Specifications.

The patch dimensions refer to the dimension of the base course that will be constructed as part of this work. The Contractor will be required to remove sufficient bricks to allow for the construction of said base course and to prevent undermining of adjacent bricks to remain in place. If the Engineer determines that not enough bricks are removed for these considerations, the Contractor will be required to remove additional bricks to the satisfaction of the Engineer. Removal of enough bricks for these considerations will be considered incidental to this work.

The Contractor shall clean bricks of attached bituminous material, concrete mortar, or dirt and in a manner to avoid damage to the bricks. The Contractor shall remove, clean to a reasonable condition, and stockpile in a location and in a manner to prevent mud, grass, or other deleterious material from contaminating the brick. If the Contractor elects to store cleaned bricks in the project right-of-way, the Contractor will be responsible for any theft or vandalism of the bricks.

Many different brands and sizes of bricks may be encountered in removing and replacing the brick pavement, possibly slowing the Contractor's progress. No compensation or contract extension of time will be allowed due to the different sizes and shapes of bricks encountered during this project.

Under no circumstances shall the City of Urbana be responsible for the cost of, or for providing, additional paving brick due to breakage of existing brick upon removal. The Contractor shall find a source and supply the additional paving brick required at his/her cost, and his/her unit price per square yard of Brick Pavement Removal and Replacement should reflect this cost. The replacement bricks shall be required to be approved by the City Engineer prior to use. It has been the City of Urbana's experience on past brick street contracts that as much as 25% - 30% of bricks which are removed mechanically are broken and cannot be reused. It is suggested that the Contractor examine the quantity of existing brick carefully and strongly consider removing the brick by hand to avoid breakage. Even if bricks are removed by hand, it shall be the Contractor's responsibility to replace all lost or damaged bricks at his/her expense.

The subgrade shall be excavated and graded to a depth sufficient to allow for 6 inches of base course,  $\frac{1}{2}$  to  $\frac{3}{4}$  inches of sand cushion, and the thickness of the bricks. The subgrade shall be graded to allow final brick placement to match the adjacent (or proposed if shown on the plans) pavement profile and cross slope.

The sand cushion will be composed of fine aggregate with a gradation designated as FA-2 as defined in Article 1003-01 of the Standard Specifications. The fine aggregate shall contain sufficient moisture for compaction. Water will be added to the fine aggregate as directed by the Engineer. This work shall be considered incidental. The fine aggregate shall be spread and leveled in an uncompacted state to a thickness of  $\frac{1}{2}$ " to  $\frac{3}{4}$ ". If the sand cushion becomes compacted due to traffic, rain, or settlement before bricks are placed, the sand cushion shall be loosened and re-leveled.

Brick placement shall follow the adjacent brick placement patterns. Brick spacing shall be  $\frac{1}{4}$ " or the same as adjacent spacing, whichever is greater. When necessary to cut bricks, the Contractor shall first attempt to use salvaged brick pieces to minimize cutting full size bricks. When cutting is performed, the Contractor shall be required to use either a block splitter or masonry saw to achieve a neat full-depth cut. Bricks shall be placed with a back and forth motion to solidly embed them in the sand cushion. The Contractor is required to use a straightedge or stringline to assure the bricks follow the lines and grade of adjacent pavement.

Once the bricks have been placed, the Contractor shall then seat the bricks into the sand cushion by use of a vibratory plate. The compaction shall proceed parallel to the edge of the pavement starting at the edge of the patch closest to the centerline of the roadway then proceeding towards the edge of the pavement. The plate shall then be operated transversely to the centerline proceeding across the length of the patch. A minimum of three alternating passes shall be performed.

After compacting the bricks, the Contractor shall then apply fine aggregate graded FA-2 to the surface of the brick patch. The material shall be swept by manual methods into the joints between the bricks. Sufficient material shall be used to completely fill the gaps. Water shall then be applied to settle the material in the joints. Care shall be taken to avoid eroding the sand from the joints. The full depth of the joints shall be completely saturated to the satisfaction of the Engineer. The Contractor shall perform this procedure again to assure complete filling of the joints. After the second pass, the Contractor shall leave a thin layer (1/4" maximum) of FA-2 only on the surface of the patch. Any excess materials not required after this step shall be removed from the right-of-way unless permitted by the Engineer.

Any whole bricks remaining after this item of work has been completed shall become property of the City of Urbana. The Contractor will be required to load the bricks on pallets and haul them to a site designated by the Engineer. The cost for this work shall be considered incidental to Brick Pavement Removal and Replacement and no additional compensation will be allowed.

#### Method of Measurement

The Brick Pavement Removal and Replacement will be measured in square feet according to the in-place dimensions of the base course.

#### Basis of Payment

The work will be paid for at the contract unit price per square feet for BRICK PAVEMENT REMOVAL AND REPLACEMENT which price shall include payment for all labor, equipment and materials.

### **3.26 Brick Sidewalk Removal**

This work shall consist of the removal of existing brick/concrete paver, stone, and/or any other type of specialty sidewalk at locations and to the limits as directed by the Engineer.

The Contractor shall carefully remove, salvage, and stack the existing brick pavers in a designated location. Removing brick from the project limits will not be allowed.

#### Basis of Payment

This work shall be paid for at the contract unit price per SQUARE FOOT for BRICK SIDEWALK REMOVAL, which shall include all equipment, materials and labor to perform the described work.

### **3.27 Brick Sidewalk**

This work shall consist of brick pavers constructed in herring bone pattern on a prepared subgrade and concrete base. This work shall also include all required sand setting bed, and paver joint material. This work shall be done at the locations specified in the plans or as directed by the Engineer.

There shall be no variation in the depth of each paver. Pavers with extensive breakage of corners shall be rejected. Field pavers shall be laid as indicated on the plan and shall be an equal mixture of the standard colors. Final colors shall be approved by Engineer prior to work.

Sand for setting bed shall meet the requirements of Section 1003 of the Standard Specifications for FA-6. Thickness of setting bed shall vary to allow the surface of the pavers to be at the required finished

grade. The paver joint material shall be dry sand conforming to ASTM C-144 with all particles passing the No. 16 sieve.

Pavers shall be installed per the respective manufacturer's recommendations.

No paver setting work shall be performed when the underlayment has free moisture, ice, or snow, or when the underlayment is frozen. Any concrete underlayment shall be sound, clean, and free from debris and materials or substances that will hinder the bond of the setting bed.

To reduce dust during paver installation, pavers shall only be cut using wet saws. No dry cutting is permitted. Cut pavers shall be placed in areas shown on the details in the plans. "L" shaped pavers shall be avoided where possible. Pavers shall be cut radially when joints between pavers on curves exceed 1/8 inch. Radial cut pavers shall be created by trimming both sides of paver. Paver edgings shall be installed per manufacturer's recommendations.

Sand shall be spread 3/4 in. thick, and leveled to required slope and grade. Minimum thickness of sand shall be 3/4" after leveling. Bed shall not be compacted until pavers are installed. Surface tolerance shall be within 1/4 in. of required grade as measured with a 10 ft. straightedge in both the transverse and longitudinal directions.

Setting bed shall be protected from damage prior to setting pavers. Pavers shall be set on sand setting bed. Pavers with chips, cracks, or other structural or aesthetic defects or those rejected by the Engineer shall not be used. Pavers shall be set true to the required lines and grades in the pattern detailed on the Plans. Pavers shall be tightly butted. Joints between pavers shall be uniform and shall not exceed 1/16 in. There shall be no raised edges, either pavers or materials adjacent to pavers, that could allow someone to trip. The tolerance for such edges shall be 0" - 1/16" maximum in range.

After a sufficient area of pavers has been installed, the pavers shall be compacted by running a mechanical vibratory compactor over the paved surface until the pavers are uniformly leveled, true to grade, and totally immobilized. Where required, pavers shall be accurately cut with a masonry or concrete saw. Cut edges shall be plumb and straight. Scoring and breaking shall not be acceptable. Joints between pavers shall be filled by sweeping sharp sand into the joints. When joints are filled, paver surfaces shall be swept clean of sand. Paver edgings shall be installed per manufacturer's recommendations. After completion of the pavers, paver installation areas shall be thoroughly swept clean and surface shall be left unsoiled. Where required by the Engineer, surface shall be cleaned with water or an approved cleaner.

#### Method of Measurement

This work will be measured per square foot for BRICK SIDEWALK.

#### Basis of Payment

This work shall be measured and paid for at the contract unit price per square foot for BRICK SIDEWALK. Concrete base, sand setting bed, joint sand, sealant and stabilizer, and paver edging will be considered incidental to the unit price and will not be paid for separately.

### **3.28 Portland Cement Concrete Sidewalk Curb**

This work shall consist of construction of Portland Cement Concrete Sidewalk Curb in accordance with Section 424 of the Standard Specification at locations noted on the plans. The concrete sidewalk curb shall be constructed in accordance with the details noted on the plans.

#### Basis of Payment



This work will be paid for at the contract unit price per foot for PORTLAND CEMENT SIDEWALK CURB. The price will include all materials, equipment and labor necessary to complete the work as specified herein.

### **3.29 Sign Panels and Appurtenances**

This work shall consist of furnishing, fabricating, and/or installing sign panels, complete with sign faces, legend, and supplemental panels. The work shall be in accordance with the applicable articles of Section 720 of the Standard Specifications except as modified herein.

Wherever the Section 720 refers to "IDOT" being placed on any signs, it will be changed to "City of Urbana."

This work shall be measured and paid for at the Contract unit price per Square Feet for SIGN PANEL, TYPE 1 which price shall include all materials, equipment and labor to perform the work.

### **3.30 Sanitary Manholes to be Adjusted With New Type 1 Frame, Closed Lid**

This work shall consist of adjusting existing sanitary manholes in accordance with Section 602 of the Standard Specifications at the locations shown in the plans. The Contractor shall adjust the existing sanitary manhole in accordance with Section 602 of the Standard Specifications, the notes in the plans, as well as install a new Type 1 frame and "Self-Sealing" closed lid to obtain the desired top of frame elevation. The frame and lid shall be Neenah R-1713 with Type B self-sealing lid or equal and owner approved text cast in lid. The word "SANITARY" must be present in the center of the lid.

This work shall be measured for payment at the contract unit price each for SANITARY MANHOLES TO BE ADJUSTED WITH NEW FRAME AND LID, which price shall included the cost of all necessary materials, labor, and equipment to perform the work as specified.

### **3.31 Asphalt Millings**

The asphalt millings removed from the pavement surface during construction activities will be taken to the Urbana Landscape Recycling Center, 1210 East University Avenue, Urbana.

The cost of compliance with this Special Provision will not be paid for separately but shall be considered, as incidental to the various HOT-MIX ASPHALT SURFACE REMOVAL pay items and no additional compensation will be allowed.

### **3.32 Sanitary Manhole Removal and Replacement**

This work shall consist of the removal of the existing manhole, as well as, the furnishing and installation of precast concrete manholes, frame, lid and connections to sewers. This work shall be completed in accordance with the most current version of the Sanitary Sewer Standards for Urbana & Champaign Sanitary District and Affiliated Communities – Champaign, Urbana, Savoy.

The manhole shall be removed in its entirety, including the casting, which shall be returned to the City. The frame and lid shall be Neenah R-1713 with Type B self-sealing lid or equal and owner approved text cast in lid. The word "SANITARY" must be present in the center of the lid.

Pipe connections to manholes shall be compression or boot style meeting ASTM C 923. Compression connections shall be non-shrink grouted on the inside and outside of the manhole after pipe installation. Boot connectors shall contain only stainless steel hardware and shall be non-shrink grouted on the

inside of the manhole after pipe installation. Non-shrink grout shall be flush with the walls, bench, and invert of the manhole and shall meet the requirements of Section 1024 of the IDOT Standard Specifications.

A minimum of 4" and a maximum of 9" of the manhole height shall consist of Cretex expanded polypropylene (EPP), or approved equal. Each adjusting ring shall be set on a ring of butyl mastic rope.

Seals between manhole sections shall be made on the flat, outside edge of each precast manhole section, using preformed flexible gaskets meeting ASTM C 990, or rubber gaskets conforming to ASTM C 443. All exterior manhole joints shall be wrapped with external sealing bands meeting ASTM C 877 Type 2, installed according to the manufacturer's requirements.

All manholes shall have external chimney seals. Chimney seals shall be made of a rubber meeting ASTM C-923 in a minimum thickness of 3/16 of an inch. The seal shall have stainless steel bands and hardware designed to secure it to the bottom flange of the casting and the upper portion of the manhole cone section. Type C manholes shall have a lip on the flat lid section for securing a chimney seal or the contractor shall furnish a special chimney seal to meet requirements of the Engineer.

All new manholes will be subject to vacuum testing. No cementitious materials may be applied to manhole joints or adjusting rings prior to the manhole passing the vacuum test. Pipe connections to the structure may be grouted in advance of vacuum testing. Upon a passing test, internal joints and lift holes shall be neatly filled with a non-shrink grout material. Adjusting rings should not be grouted.

Sanitary sewer pipe extensions of less than 10-feet of pipe length shall be considered incidental to this work.

#### Measurement and Payment

This work will be measured and paid for at the contract unit price per each for REMOVE AND REPLACE SANITARY MANHOLE, of the specified type & size. Frames and lids, adjustment rings, joint sealing, chimney seals, connections to sewers, and pipe extensions of less than 10-feet will not be measured for payment, but shall be considered included in the contract unit price for the removal and replacement of the manhole of the specified type and size.

No additional depth of manholes will be measured for payment as all manholes associated with this project are anticipated to be less than 8-feet

### **3.33 Manhole Adjustment Rings**

All manholes will need to use Cretex (or approved equivalent) adjustment rings. This work shall be considered incidental to the manhole adjustments and shall not be paid separately.

### **3.34 Valve Boxes to be Adjusted (special)**

This work shall consist of adjusting valve boxes to the finished grade as shown on the plans or as directed by the Engineer according to Section 602 of the Standard Specifications, with the following modifications:

Before milling operations start, the existing pavement adjacent to and for a distance not exceeding 12 inches outside the base of the valve to be adjusted shall be broken sufficiently to permit its removal. The contractor will place a steel plate or blank sign over the existing hole and cover with CA 6 to 3 inches below the existing surface elevations. The final inches to surface level shall be cold mix asphalt. It is the contractor's responsibility to accurately note the location of the valves during this process.

Once milling and paving operations are complete, the contractor shall adjust the valves to the final finish grade of the surface. A minimum of 12 inches of the pavement adjacent to the valve shall be saw cut and removed. After the valve is adjusted to the new surface grade, the removed pavement shall be replaced with a minimum of 9 inch thick Class SI concrete. All or portions of this work may be omitted from the contract at the discretion of the engineer.

#### Basis of Pavement

This work will be paid for at the contract unit price per each valve adjusted as VALVE BOXES TO BE ADJUSTED (SPECIAL).

#### **3.35 Handholes to be Adjusted**

This work shall be in accordance with the applicable portions of the Section 814 of the Standard Specifications.

This work shall include the adjustment of an existing handhole (or double handhole in some instances) to a proposed grade within an improved area. The contractor shall bring the grade of the handhole in agreement with Article 814.03 of the Standard Specifications.

Any existing conduit to be used shall be protected from damage during adjustment.

Any unsuitable material left over from the handhole adjustment shall be disposed of in accordance with Article 202.03 of the Standard Specifications.

This work shall be paid for at the contract unit price EACH for HANDHOLE TO ADJUSTED or DOUBLE HANDHOLE TO BE ADJUSTED (depending on type) and shall include all labor and material to complete the adjustment. No additional compensation will be allowed.

#### **3.36 Storm Sewer Removal**

This work shall be in accordance with Section 551 of the Standard Specifications, the details in the drawings, and the following special provision.

#### Method of Measurement

All storm sewer removal shall be measured for payment in place per foot regardless of size, location, or material. Any excavation required to remove the storm sewer shall be included in the cost of this pay item. The trench shall be backfilled with trench backfill material.

#### Basis of Payment

This work shall be paid for at the contract unit price per foot for STORM SEWER REMOVAL, which price shall include all materials, labor, trench backfill, and equipment necessary to complete the work as specified.

#### **3.37 Relocate Existing Junction Box**

This item consists of removing and relocating an existing junction box attached to pole with all support equipment, hardware and appurtenances as shown on the plans, as described herein, as directed by the Engineer and as required for a complete installation.

The contractor shall ensure all splices are protected during the removal of each junction box. No removal work shall be permitted without approval from the Engineer.

The junction box shall be installed accordance with Article 813.03 of the Standard Specifications.

#### Method of Measurement

Removal and reinstallation of an existing junction box attached to wood pole will be measured on a per each basis, regardless of junction box type and size.

#### Basis of Payment

This work will be paid for at the contract unit price per each for RELOCATE EXISTING JUNCTION BOX, which will be payment in full for complete installation.

### **3.38 Special Waste Provision**

A full copy of the PESA is available on request. The following contains the special waste locations and provisions.

#### **FINAL PRELIMINARY SITE INVESTIGATION REPORT**

Based on the recommendations of the PSI report, if the City of Urbana wants to pursue construction in the area of soil contamination, the Contractor performing the on-site monitoring of regulated substance work and/or on-site monitoring of UST removal shall be pre-qualified in Hazardous Waste by the Department, or demonstrate acceptable project experience. Acceptable project experience includes, but is not limited to, providing applicable project experience in accordance with the requirements in BDE 2730 Section 2.A and documented in Section 2.B of BDE 2730.

Acceptable qualifications shall also be demonstrated with project experience in remediation and regulated substances operations for contaminated sites in accordance with applicable federal, State, or local regulatory requirements. Documentation of qualifications shall be provided to the Engineer for evaluation and acceptance using BDE 2730 (Regulated Substances Pre-Construction Plan). Acceptable project documentation shall include, at a minimum, the regulatory identification numbers, project completion dates, and description of the Contractor's role in the projects.

The qualified on-site monitoring personnel performing work shall have a minimum of one-year experience in similar activities as those required for the project and shall meet Section 669 of the Standard Specifications for Road and Bridge Construction requirements.

#### **REMOVAL AND DISPOSAL OF REGULATED SUBSTANCES**

**Description.** This work shall consist of the removal and disposal of regulated substances according to Section 669 of the Standard Specifications as revised below.

**Contract Specific Work Areas.** The excavated soil within the work areas listed below shall be managed as either non-special waste or "uncontaminated soils". For stationing, the lateral distance is measured from centerline and the farthest distance is the offset distance or construction limit, whichever is less.

An estimated quantity of potentially impacted soil has been included in the PSI report. 147 CY of soil are required to be managed as a non-special waste. 118 CY of the 147 CY of potentially impacted soils can be reused onsite where possible. If soils cannot be reused, they are to be managed as non-special

waste. Regulated substances monitoring will be required during excavation activities. The estimated cost associated with regulated substances monitoring soil is \$5,000. All utility companies located within or relocating to the following areas should be notified of the potential soil contamination and the special provision shall be included in the contract plans.

**PESA Site 1 – 901 West University Street**

• Station 118+92 to 119+43 LT (52 linear feet) along the Lincoln Avenue ROW (S1-B3). This material meets the criteria of Article 669.05(b)(1) and shall be utilized within the right-of-way as embankment or fill, when suitable, or managed and disposed of off-site according to Article 202.03. However, the excavated soil cannot be taken to a CCDD facility or an USFO due to pH of the soil being greater than 9.0. COC sampling parameters: pH.

**PESA Site 10 - 904 West Green Street**

• Station 102+30 to 102+77 LT (47 linear feet) along the Lincoln Avenue ROW (S10-B1). This material meets the criteria of Article 669.05(a)(5) and shall be managed and disposed of at a landfill as a non-special waste. COC sampling parameters: lead.

**PESA Site 11 - 406/408 North Lincoln Avenue and 813 West University Avenue**

• Station 118+33 to 118+86 RT (53 linear feet) along the Lincoln Avenue ROW (S11-B4). This material meets the criteria of Article 669.05(b)(1) and shall be utilized within the right-of-way as embankment or fill, when suitable, or managed and disposed of off-site according to Article 202.03. However, the excavated soil cannot be taken to a CCDD facility or an USFO due to pH of the soil being greater than 9.0. COC sampling parameters: pH.

• Station 1600+36 to 1601+00 LT (64 linear feet) along the Clark Street ROW (S11-B6). This material meets the criteria of Article 669.05(b)(1) and shall be utilized within the right-of-way as embankment or fill, when suitable, or managed and disposed of off-site according to Article 202.03. However, the excavated soil cannot be taken to a CCDD facility or an USFO due to pH of the soil being greater than 9.0. COC sampling parameters: pH.

**PESA Site 23 – 810 West Green Street**

• Station 101+05 to 101+30 RT (25 linear feet) along the Lincoln Avenue ROW (S23-B2). This material meets the criteria of Article 669.05(b)(1) and shall be utilized within the right-of-way as embankment or fill, when suitable, or managed and disposed of off-site according to Article 202.03. However, the excavated soil cannot be taken to a CCDD facility or an USFO due to pH of the soil being greater than 9.0. COC sampling parameters: pH.

**Work Zones**

Three distinct OSHA HAZWOPER work zones (exclusion, decontamination, and support) shall apply to projects adjacent to or within sites with documented leaking underground storage tank (LUST) incidents, or sites under management in accordance with the requirements of the Site Remediation Program (SRP), Resource Conservation and Recovery Act (RCRA), or Comprehensive Environmental Response, Compensation and Liability Act (CERCLA), or as deemed necessary. For this project, the work zones apply for the following PESA Sites: **None**.

Additional information on the above sites collected during the Preliminary Environmental Site Assessment (PESA) – completed September 25, 2019.

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## REMOVAL AND DISPOSAL OF REGULATED SUBSTANCES (BDE)

Effective: January 1, 2019

Revised: January 1, 2020

Revise Section 669 of the Standard Specifications to read:

### “SECTION 669. REMOVAL AND DISPOSAL OF REGULATED SUBSTANCES”

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

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

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

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

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

- (a) Regulated Substances Monitoring. Qualification for environmental observation and field screening of regulated substances work and environmental observation of UST removal shall require either pre-qualification in Hazardous Waste by the Department or demonstration of acceptable project experience in remediation and operations for contaminated sites in accordance with applicable Federal, State, or local regulatory requirements using BDE 2730.

Qualification for each individual performing regulated substances monitoring shall require a minimum of one-year of experience in similar activities as those required for the project.

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

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

The Engineer will require up to 21 calendar days for review of the RSPCP. The review may involve rejection or revision and resubmittal; in which case, an additional 21 days will be required for each subsequent review. Work shall not commence until the RSPCP has been approved by the Engineer. After approval, the RSPCP shall be revised as necessary to reflect changed conditions in the field and documented using BDE 2730A "Regulated Substances Pre-Construction Plan (RSPCP) Addendum" and submitted to the Engineer for approval.

### **CONSTRUCTION REQUIREMENTS**

**669.04 Regulated Substances Monitoring.** Regulated substances monitoring includes environmental observation and field screening during regulated substances management activities at the contract specific work areas. As part of the regulated substances monitoring, the monitoring personnel shall perform and document the applicable duties listed on form BDE 2732 "Regulated Substances Monitoring Daily Record (RSMDR)".

- (a) **Environmental Observation.** Prior to beginning excavation, the Contractor shall mark the limits of the contract specific work areas. Once work begins, the monitoring personnel shall be present on-site continuously during the excavation and loading of material.
- (b) **Field Screening.** Field screening shall be performed during the excavation and loading of material from the contract specific work areas, except for material classified according to Article 669.05(b)(1) or 669.05(c) where field screening is not required.

Field screening shall be performed with either a photoionization detector (PID) (minimum 10.6eV lamp) or a flame ionization detector (FID), and other equipment as appropriate, to monitor for potential contaminants associated with regulated substances. The PID or FID shall be calibrated on-site, and background level readings taken and recorded daily, and as field and weather conditions change. Field screen readings on the PID or FID in excess of background levels indicates the potential presence of regulated substances requiring handling as a non-special waste, special waste, or hazardous waste. PID or FID readings may be used as the basis of increasing the limits of removal with the approval of the Engineer but shall in no case be used to decrease the limits.

**669.05 Regulated Substances Management and Disposal.** The management and disposal of soil and/or groundwater containing regulated substances shall be according to the following:

- (a) **Soil Analytical Results Exceed Most Stringent MAC.** When the soil analytical results indicate detected levels exceed the most stringent maximum allowable concentration (MAC) for chemical constituents in soil established pursuant to Subpart F of 35 Ill. Adm. Code 1100.605, the soil shall be managed as follows:
  - (1) When analytical results indicate inorganic chemical constituents exceed the most stringent MAC, but still considered within area background levels by the Engineer, the excavated soil can be utilized within the right-of-way as embankment or fill, when suitable. If the soils

cannot be utilized within the right-of-way, they shall be managed and disposed of at a landfill as a non-special waste.

- (2) When analytical results indicate inorganic chemical constituents exceed the most stringent MAC but do not exceed the MAC for a Metropolitan Statistical Area (MSA) County identified in 35 Ill. Admin. Code 742 Appendix A. Table G, the excavated soil can be utilized within the right-of-way as embankment or fill, when suitable, or managed and disposed of at a clean construction and demolition debris (CCDD) facility or an uncontaminated soil fill operation (USFO) within an MSA County provided the pH of the soil is within the range of 6.25 - 9.0, inclusive.
  - (3) When analytical results indicate chemical constituents exceed the most stringent MAC but do not exceed the MAC for an MSA County excluding Chicago, or the MAC within the Chicago corporate limits, the excavated soil can be utilized within the right-of-way as embankment or fill, when suitable, or managed and disposed of off-site at a CCDD facility or an USFO within an MSA County excluding Chicago or within the Chicago corporate limits provided the pH of the soil is within the range of 6.25 - 9.0, inclusive.
  - (4) When analytical results indicate chemical constituents exceed the most stringent MAC but do not exceed the MAC for an MSA County excluding Chicago, the excavated soil can be utilized within the right-of-way as embankment or fill, when suitable, or managed and disposed of off-site at a CCDD facility or an USFO within an MSA County excluding Chicago provided the pH of the soil is within the range of 6.25 - 9.0, inclusive.
  - (5) When the Engineer determines soil cannot be managed according to Articles 669.05(a)(1) through (a)(4) above and the materials do not contain special waste or hazardous waste, as determined by the Engineer, the soil shall be managed and disposed of at a landfill as a non-special waste.
  - (6) When analytical results indicate soil is hazardous by characteristic or listing pursuant to 35 Ill. Admin. Code 721, contains radiological constituents, or the Engineer otherwise determines the soil cannot be managed according to Articles 669.05(a)(1) through (a)(5) above, the soil shall be managed and disposed of off-site as a special waste or hazardous waste as applicable.
- (b) Soil Analytical Results Do Not Exceed Most Stringent MAC. When the soil analytical results indicate that detected levels do not exceed the most stringent MAC, the excavated soil can be utilized within the right-of-way as embankment or fill, when suitable, or managed and disposed of off-site according to Article 202.03. However, the excavated soil cannot be taken to a CCDD facility or an USFO for any of the following reasons.
- (1) The pH of the soil is less than 6.25 or greater than 9.0.
  - (2) The soil exhibited PID or FID readings in excess of background levels.
- (c) Soil Analytical Results Exceed Most Stringent MAC but Do Not Exceed Tiered Approach to Corrective Action Objectives (TACO) Residential. When the soil analytical results indicate that detected levels exceed the most stringent MAC but do not exceed TACO Tier 1 Soil Remediation Objectives for Residential Properties pursuant to 35 Ill. Admin. Code 742 Appendix B Table A, the excavated soil can be utilized within the right-of-way as embankment or fill, when suitable, or managed and disposed of off-site according to Article 202.03. However, the excavated soil cannot be taken to a CCDD facility or an USFO.



- (d) Groundwater. When groundwater analytical results indicate the detected levels are above Appendix B, Table E of 35 Ill. Admin. Code 742, the most stringent Tier 1 Groundwater Remediation Objectives for Groundwater Component of the Groundwater Ingestion Route for Class 1 groundwater, the groundwater shall be managed off-site as a special waste or hazardous waste as applicable. Special waste groundwater shall be containerized and trucked to an off-site treatment facility, or may be discharged to a sanitary sewer or combined sewer when permitted by the local sewer authority. Groundwater discharged to a sanitary sewer or combined sewer shall be pre-treated to remove particulates and measured with a calibrated flow meter to comply with applicable discharge limits. A copy of the permit shall be provided to the Engineer prior to discharging groundwater to the sanitary sewer or combined sewer.

Groundwater encountered within trenches may be managed within the trench and allowed to infiltrate back into the ground. If the groundwater cannot be managed within the trench, it may be discharged to a sanitary sewer or combined sewer when permitted by the local sewer authority, or it shall be containerized and trucked to an off-site treatment facility as a special waste or hazardous waste. The Contractor is prohibited from discharging groundwater within the trench through a storm sewer. The Contractor shall install backfill plugs within the area of groundwater contamination.

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

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

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

The Contractor shall obtain all documentation including any permits and/or licenses required to transport the material containing regulated substances to the disposal facility. The Contractor shall coordinate with the Engineer on the completion of all documentation. The Contractor shall make all arrangements for collection and analysis of landfill acceptance testing. The Contractor shall coordinate waste disposal approvals with the disposal facility.

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

Transportation and disposal of material classified according to Article 669.05(a)(5) or 669.05(a)(6) shall be completed each day so that none of the material remains on-site by the close of business, except when temporary staging has been approved.

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

The Contractor shall select a landfill permitted for disposal of the contaminant within the State of Illinois. The Department will review and approve or reject the facility proposed by the Contractor to use as a landfill. The Contractor shall verify whether the selected disposal facility is compliant with those applicable standards as mandated by their permit and whether the disposal facility is presently, has previously been, or has never been, on the United States Environmental Protection Agency (U.S. EPA) National Priorities List or the Resource Conservation and Recovery Act (RCRA) List of Violating Facilities. The use of a Contractor selected landfill shall in no manner delay the construction schedule or alter the Contractor's responsibilities as set forth.

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

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

- (1) a potentially infectious medical waste;
- (2) a hazardous waste as defined in 35 Ill. Admin. Code 721;
- (3) an industrial process waste or pollution control waste that contains liquids, as determined using the paint filter test set forth in subdivision (3)(A) of subsection (m) of 35 Ill. Admin. Code 811.107;
- (4) a regulated asbestos-containing waste material, as defined under the National Emission Standards for Hazardous Air Pollutants in 40 CFR Part 61.141;
- (5) a material containing polychlorinated biphenyls (PCB's) regulated pursuant to 40 CFR Part 761;
- (6) a material subject to the waste analysis and recordkeeping requirements of 35 Ill. Admin. Code 728.107 under land disposal restrictions of 35 Ill. Admin. Code 728;
- (7) a waste material generated by processing recyclable metals by shredding and required to be managed as a special waste under Section 22.29 of the Environmental Protection Act; or
- (8) an empty portable device or container in which a special or hazardous waste has been stored, transported, treated, disposed of, or otherwise handled.

(b) Certification Information. All information used to determine the waste is not a special waste shall be attached to the certification. The information shall include but not be limited to:

- (1) the means by which the generator has determined the waste is not a hazardous waste;
- (2) the means by which the generator has determined the waste is not a liquid;

- (3) if the waste undergoes testing, the analytic results obtained from testing, signed and dated by the person responsible for completing the analysis;
- (4) if the waste does not undergo testing, an explanation as to why no testing is needed;
- (5) a description of the process generating the waste; and
- (6) relevant material safety data sheets.

**669.07 Temporary Staging.** Soil classified according to Articles 669.05(a)(2), (b)(1), or (c) may be temporarily staged at the Contractor's option. Soil classified according to Articles 669.05(a)(1), (a)(3), (a)(4), (a)(5), (a)(6), or (b)(2) shall be managed and disposed of without temporary staging to the greatest extent practicable. If circumstances beyond the Contractor's control require temporary staging of these latter materials, the Contractor shall request approval from the Engineer in writing.

Temporary staging shall be accomplished within the right-of-way and the Contractor's means and methods shall be described in the approved or amended RSPCP. Staging areas shall not be located within 200 feet (61 m) of a public or private water supply well; nor within 100 feet (30 m) of sensitive environmental receptor areas, including wetlands, rivers, streams, lakes, or designated habitat zones.

The method of staging shall consist of containerization or stockpiling as applicable for the type, classification, and physical state (i.e., liquid, solid, semisolid) of the material. Materials of different classifications shall be staged separately with no mixing or co-mingling.

When containers are used, the containers and their contents shall remain intact and inaccessible to unauthorized persons until the manner of disposal is determined. The Contractor shall be responsible for all activities associated with the storage containers including, but not limited to, the procurement, transport, and labeling of the containers. The Contractor shall not use a storage container if visual inspection of the container reveals the presence of free liquids or other substances that could cause the waste to be reclassified as a hazardous or special waste.

When stockpiles are used, they shall be covered with a minimum 20-mil plastic sheeting or tarps secured using weights or tie-downs. Perimeter berms or diversionary trenches shall be provided to contain and collect for disposal any water that drains from the soil. Stockpiles shall be managed to prevent or reduce potential dust generation.

When staging non-special waste, special waste, or hazardous waste, the following additional requirements shall apply:

- (a) **Non-Special Waste.** When stockpiling soil classified according to Article 669.05(a)(1) or 669.05(a)(5), an impermeable surface barrier between the materials and the ground surface shall be installed. The impermeable barrier shall consist of a minimum 20-mil plastic liner material and the surface of the stockpile area shall be clean and free of debris prior to placement of the liner. Measures shall also be taken to limit or discourage access to the staging area.
- (b) **Special Waste and Hazardous Waste.** Soil classified according to Article 669.05(a)(6) shall not be stockpiled but shall be containerized immediately upon generation in containers, tanks or containment buildings as defined by RCRA, Toxic Substances Control Act (TSCA), and other applicable State or local regulations and requirements, including 35 Ill. Admin. Code Part 722, Standards Applicable to Generators of Hazardous Waste.

The staging area(s) shall be enclosed (by a fence or other structure) to restrict direct access to the area, and all required regulatory identification signs applicable to a staging area containing special waste or hazardous waste shall be deployed.

Storage containers shall be placed on an all-weather gravel-packed, asphalt, or concrete surface. Containers shall be in good condition and free of leaks, large dents, or severe rusting, which may compromise containment integrity. Containers must be constructed of, or lined with, materials that will not react or be otherwise incompatible with the hazardous or special waste contents. Containers used to store liquids shall not be filled more than 80 percent of the rated capacity. Incompatible wastes shall not be placed in the same container or comingled.

All containers shall be legibly labeled and marked using pre-printed labels and permanent marker in accordance with applicable regulations, clearly showing the date of waste generation, location and/or area of waste generation, and type of waste. The Contractor shall place these identifying markings on an exterior side surface of the container.

Storage containers shall be kept closed, and storage pads covered, except when access is needed by authorized personnel.

Special waste and hazardous waste shall be transported and disposed within 90 days from the date of generation.

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

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

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

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

The Contractor shall contact the Engineer and the OSFM's office at least 72 hours prior to removal to confirm the OSFM inspector's presence during the UST removal. Removal, transport, and disposal of the UST shall be according to the applicable portions of the latest revision of the "American Petroleum Institute (API) Recommended Practice 1604".

The Contractor shall collect and analyze tank content (sludge) for disposal purposes. The Contractor shall remove as much of the regulated substance from the UST system as necessary to prevent further

release into the environment. All contents within the tank shall be removed, transported and disposed of, or recycled. The tank shall be removed and rendered empty according to IEPA definition.

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

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

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

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

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

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

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

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

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

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

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

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

Regulated substances monitoring, including completion of form BDE 2732 for each day of work, will be paid for at the contract unit price per calendar day, or fraction thereof to the nearest 0.5 calendar day, for REGULATED SUBSTANCES MONITORING.

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

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

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

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

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

Payment for temporary staging of soil classified according to Articles 669.05(a)(1), (a)(3), (a)(4), (a)(5), (a)(6), or (b)(2) will be paid for according to Article 109.04. The Department will not be responsible for any additional costs incurred, if mismanagement of the staging area, storage containers, or their contents by the Contractor results in excess cost expenditure for disposal or other material management requirements.

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

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

When the waste material for disposal requires sampling for landfill disposal acceptance, the samples shall be analyzed for TCLP VOCs, SVOCs, RCRA metals, pH, ignitability, and paint filter test. The analysis will be paid for at the contract unit price per each for SOIL DISPOSAL ANALYSIS using EPA Methods 1311 (extraction), 8260B for VOCs, 8270C for SVOCs, 6010B and 7470A for RCRA metals, 9045C for pH, 1030 for ignitability, and 9095A for paint filter.

The work of preparing, submitting and administering a Regulated Substances Final Construction Report will be paid for at the contract lump sum price REGULATED SUBSTANCES FINAL CONSTRUCTION REPORT.”

**SECTION D**

City of Urbana Supplemental Project Information





Engineering & Research Int'l, Inc.  
1401 Regency Drive East  
Savoy, Illinois 61874 USA  
217-356-5945 (Phone)  
217-356-6347 (Fax)  
eri@erikuab.com  
www.erikuab.com

April 2, 2018  
ERI Ref. No: MTS-18-003.001

Mr. Craig E. Shonkwiler, P.E.  
Assistant City Engineer  
City of Urbana  
Public Works Department  
Engineering Division  
706 South Glover Avenue  
Urbana, IL 61802

**Subject:       Coring for Lincoln and Springfield Avenue Resurfacing Project- Urbana, IL**

Dear Mr. Shonkwiler,

Please find the attached **Figures 1 thru 65** with the pavement core thicknesses and core pictures for the coring performed on Lincoln Avenue, Springfield Avenue, Stoughton Street, Main Street and Clark Street.

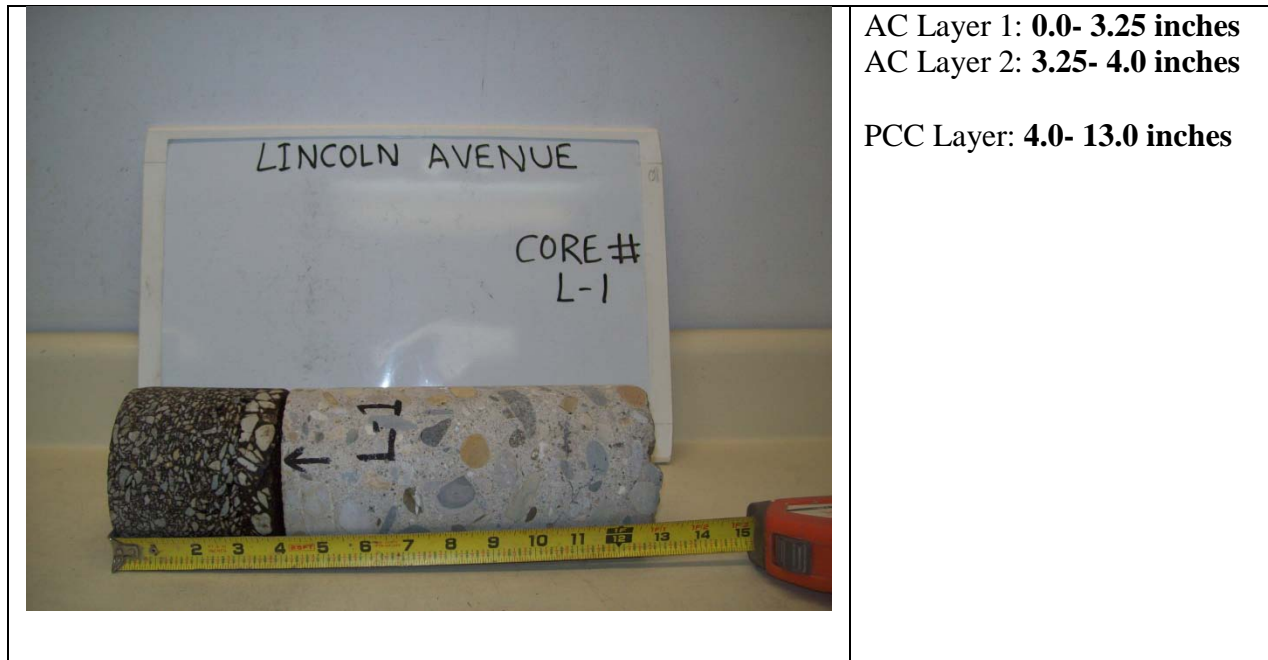
Please review this information and let us know if you have any questions.

Sincerely,  
Engineering & Research Int'l, Inc.

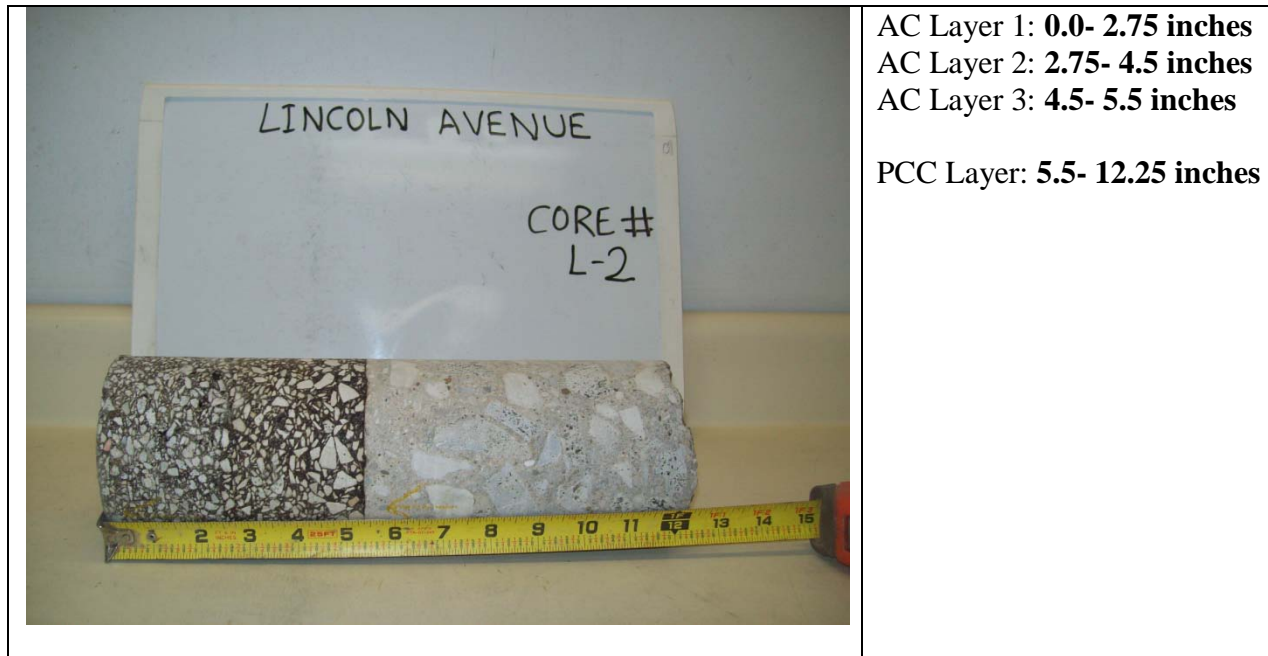
A handwritten signature in blue ink, appearing to read 'Abbas A. Butt', is written over a light blue horizontal line.

Abbas A. Butt, Ph.D., P.E.  
President

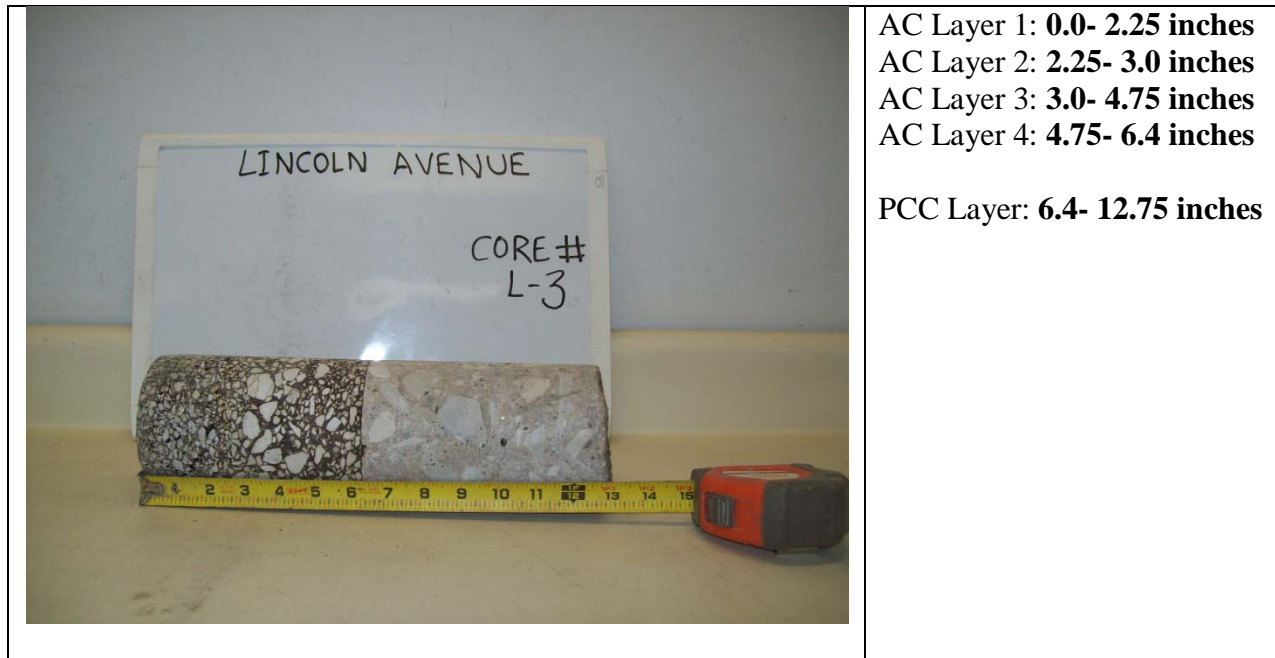
**Lincoln Avenue Pavement Cores**



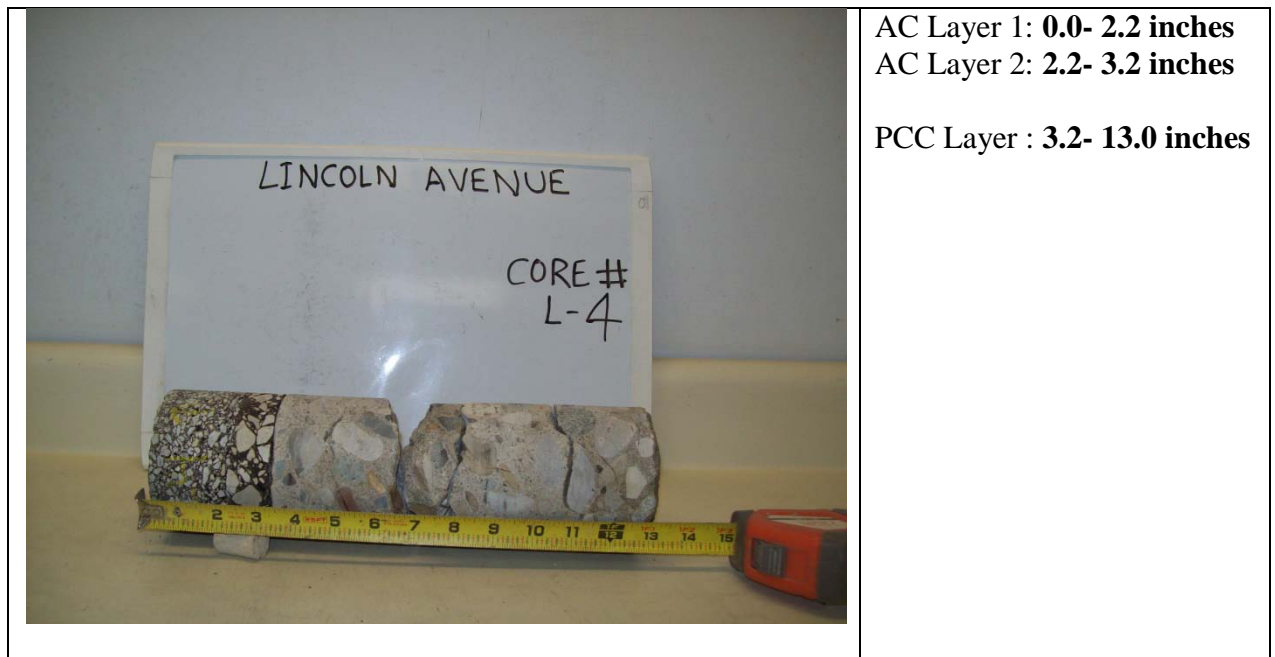
**Figure 1: Lincoln Avenue Core #L-1**



**Figure 2: Lincoln Avenue Core #L-2**



**Figure 3: Lincoln Avenue Core #L-3**



**Figure 4: Lincoln Avenue Core #L-4**

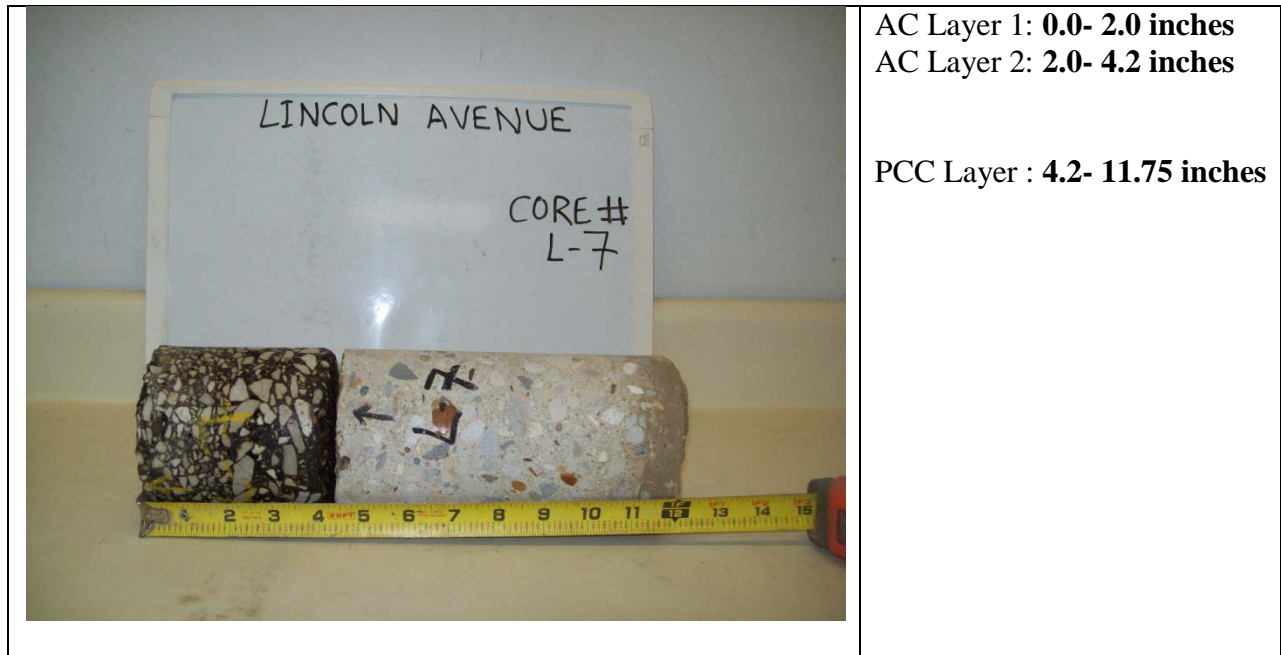


**Figure 5: Lincoln Avenue Core #L-5**



**Figure 6: Lincoln Avenue Core #L-6**

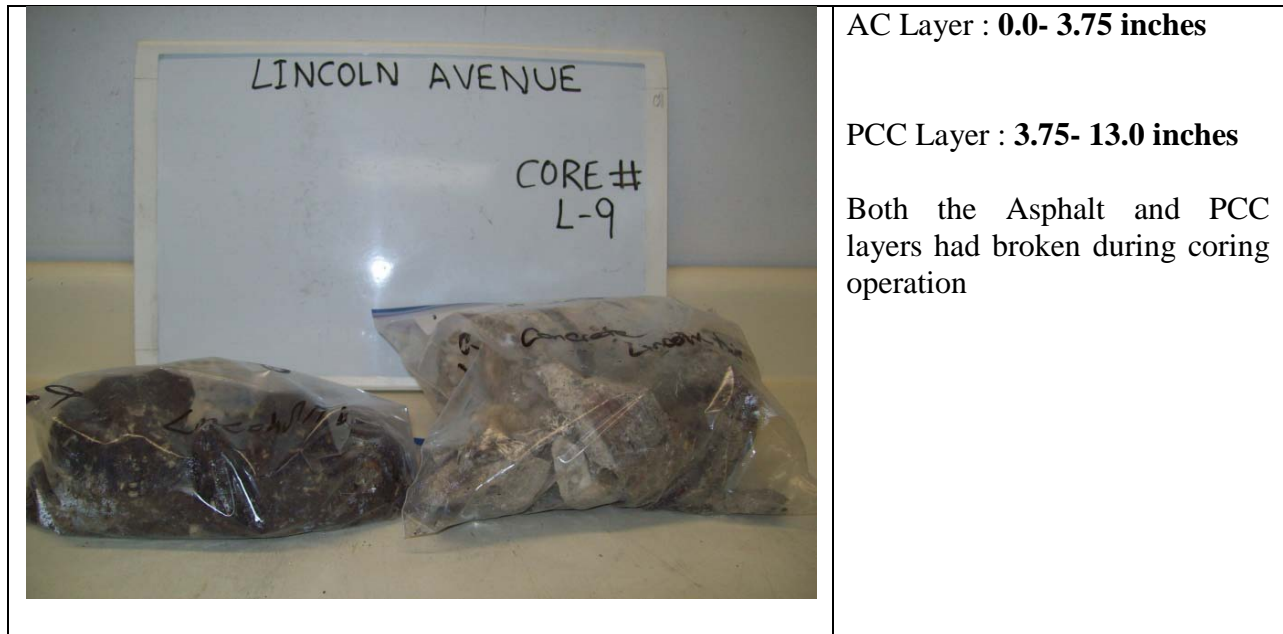




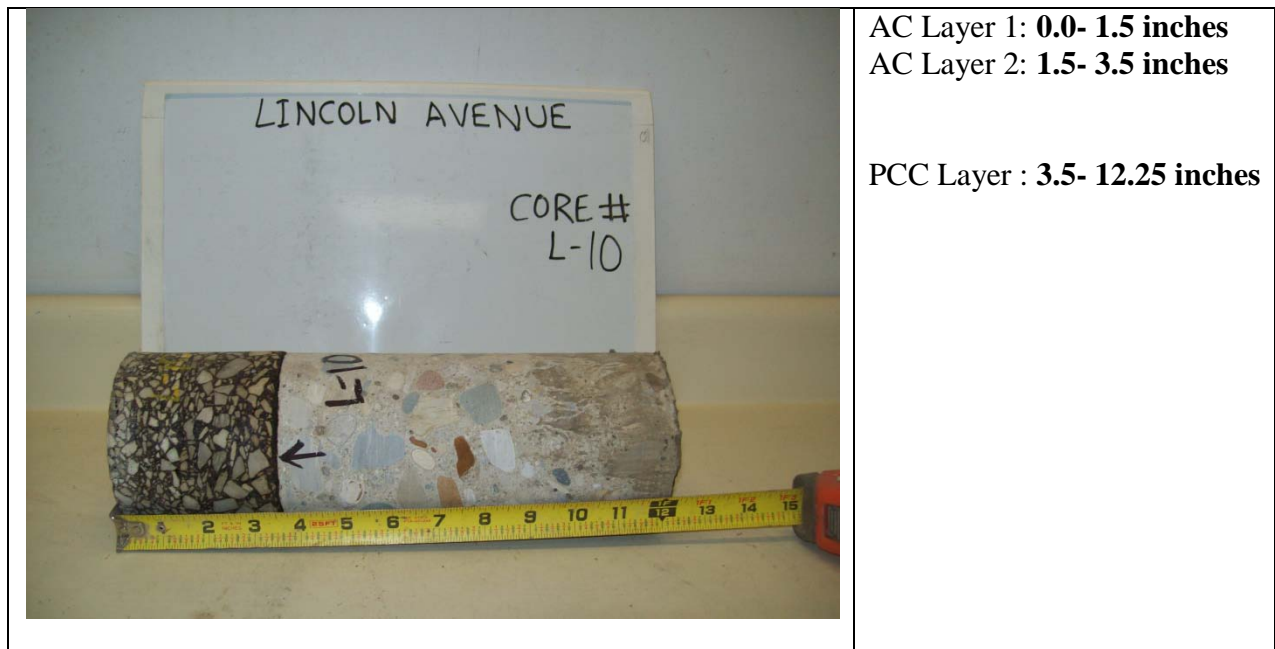
**Figure 7: Lincoln Avenue Core #L-7**



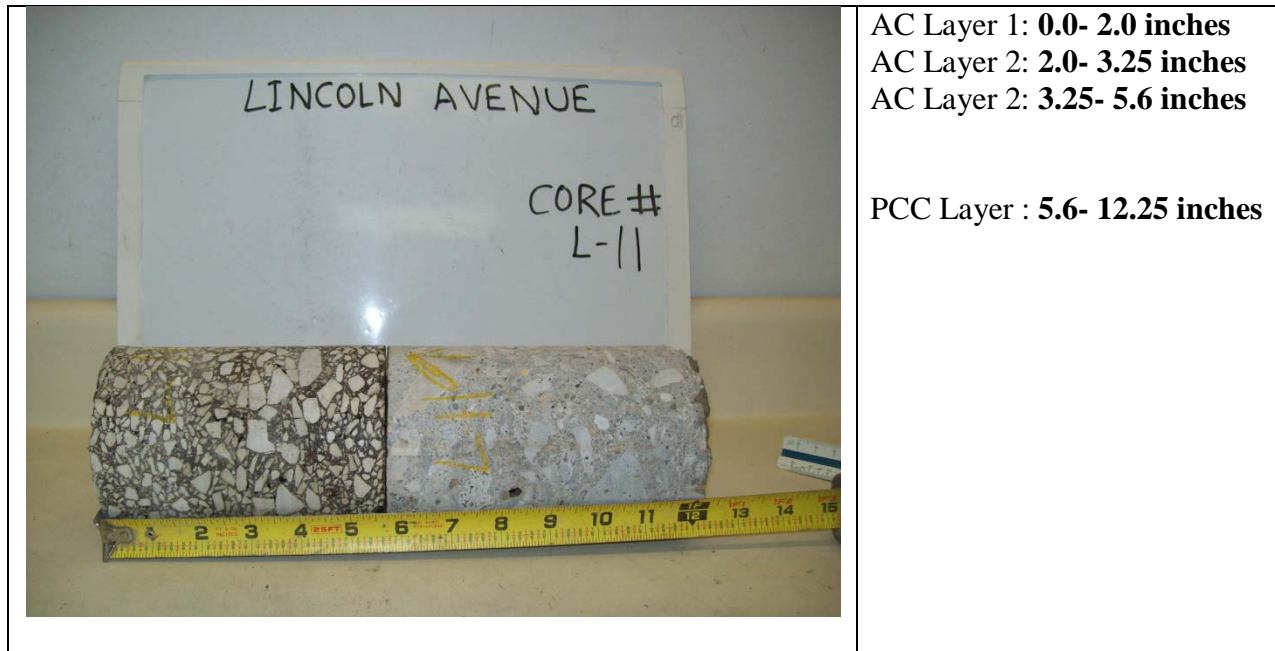
**Figure 8: Lincoln Avenue Core #L-8**



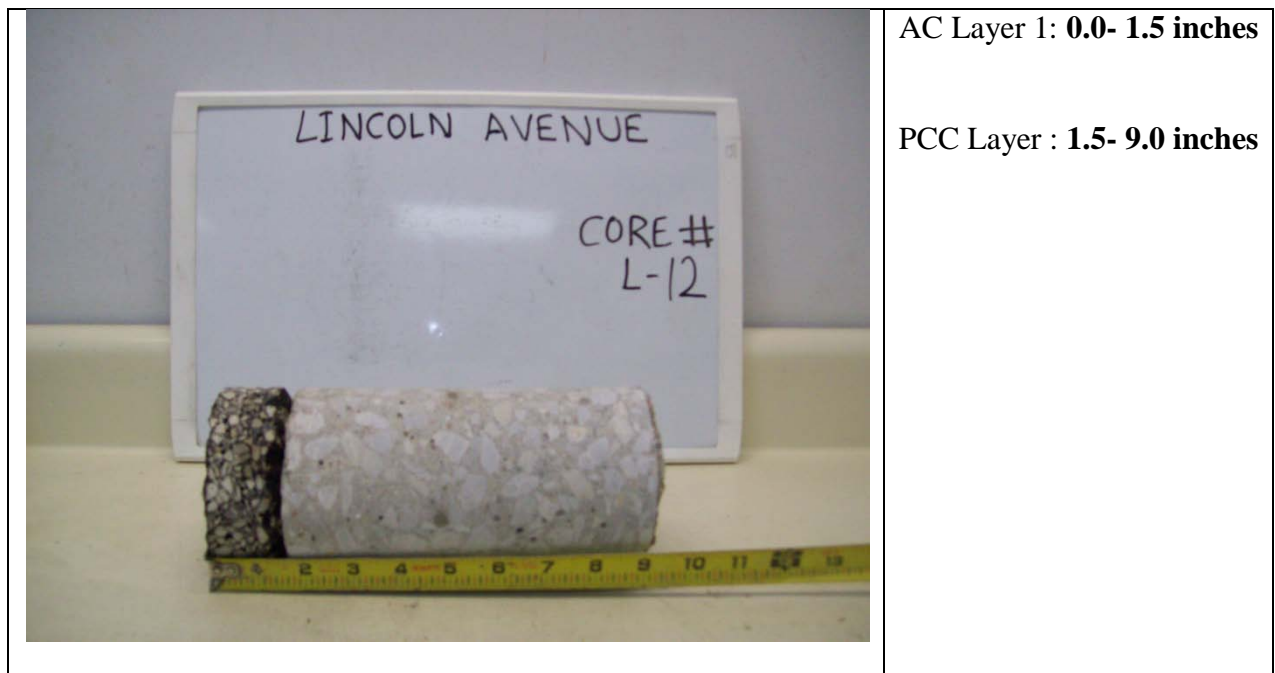
**Figure 9: Lincoln Avenue Core #L-9**



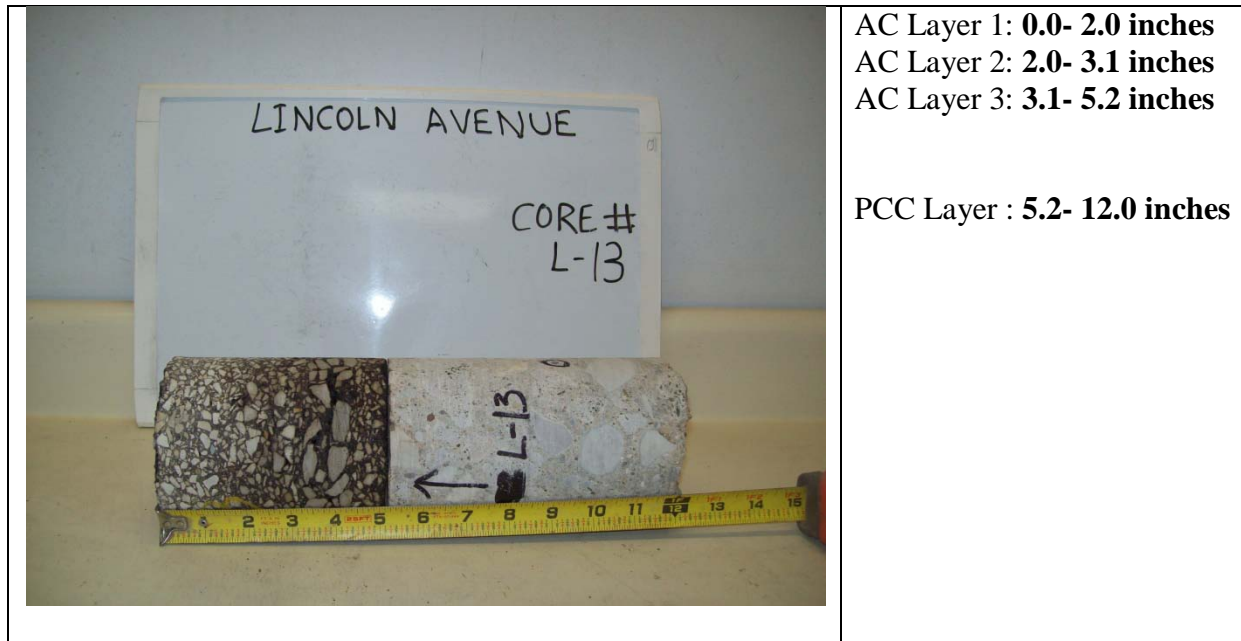
**Figure 10: Lincoln Avenue Core #L-10**



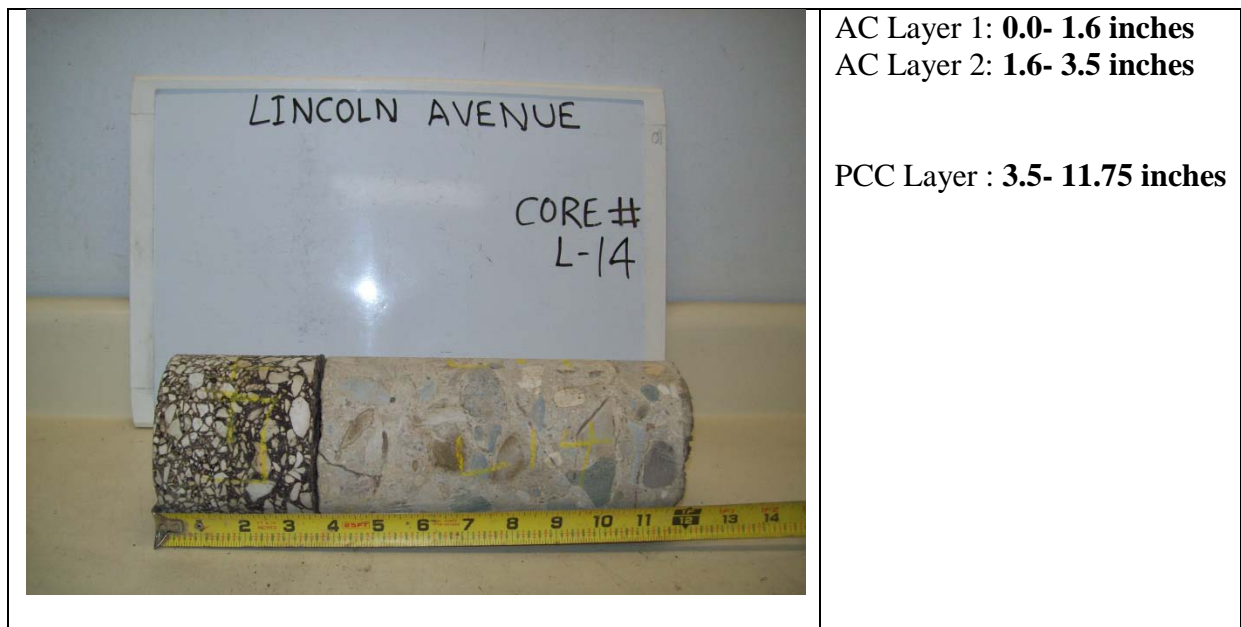
**Figure 11: Lincoln Avenue Core #L-11**



**Figure 12: Lincoln Avenue Core #L-12**

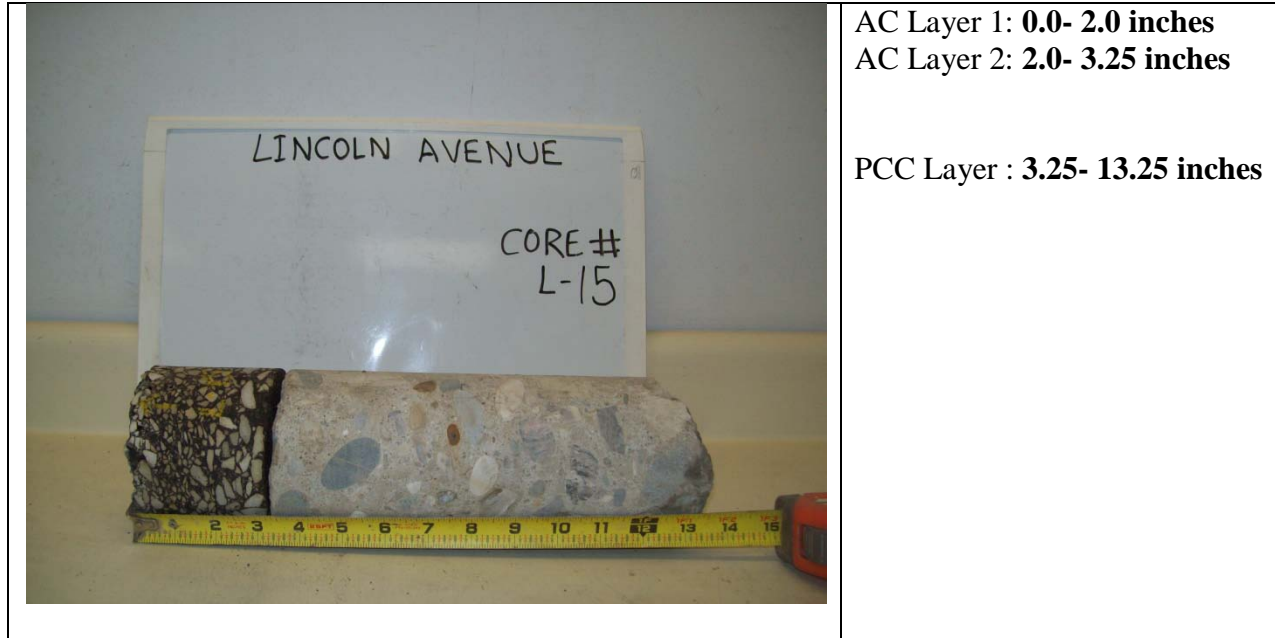


**Figure 13: Lincoln Avenue Core #L-13**

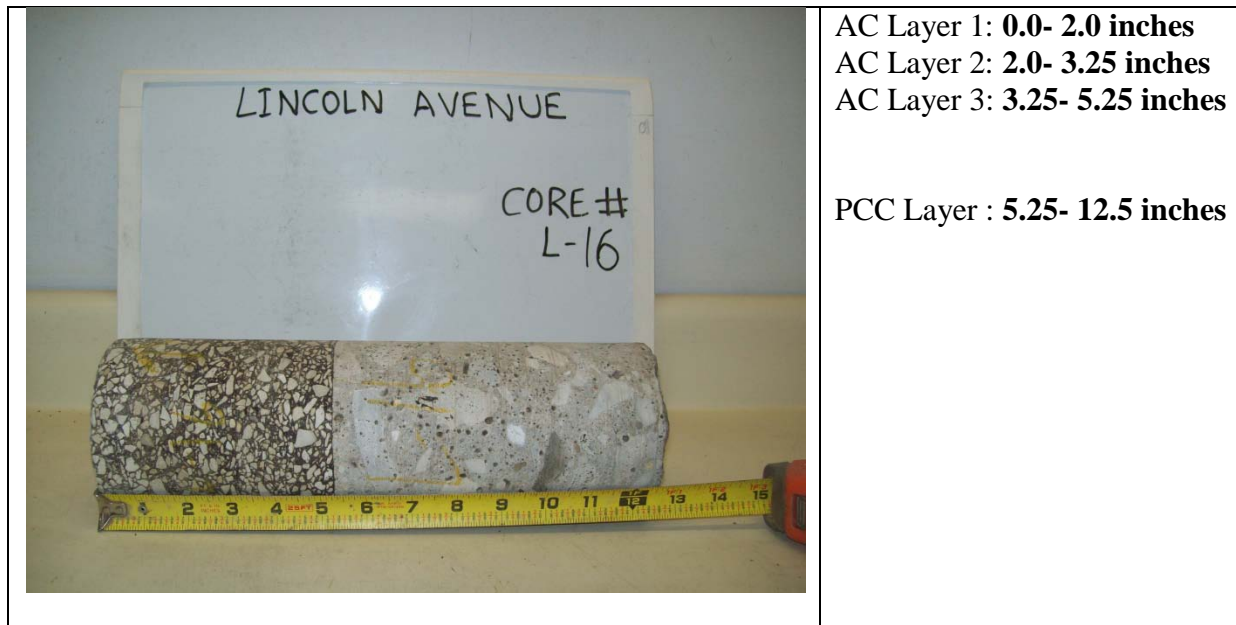


**Figure 14: Lincoln Avenue Core #L-14**

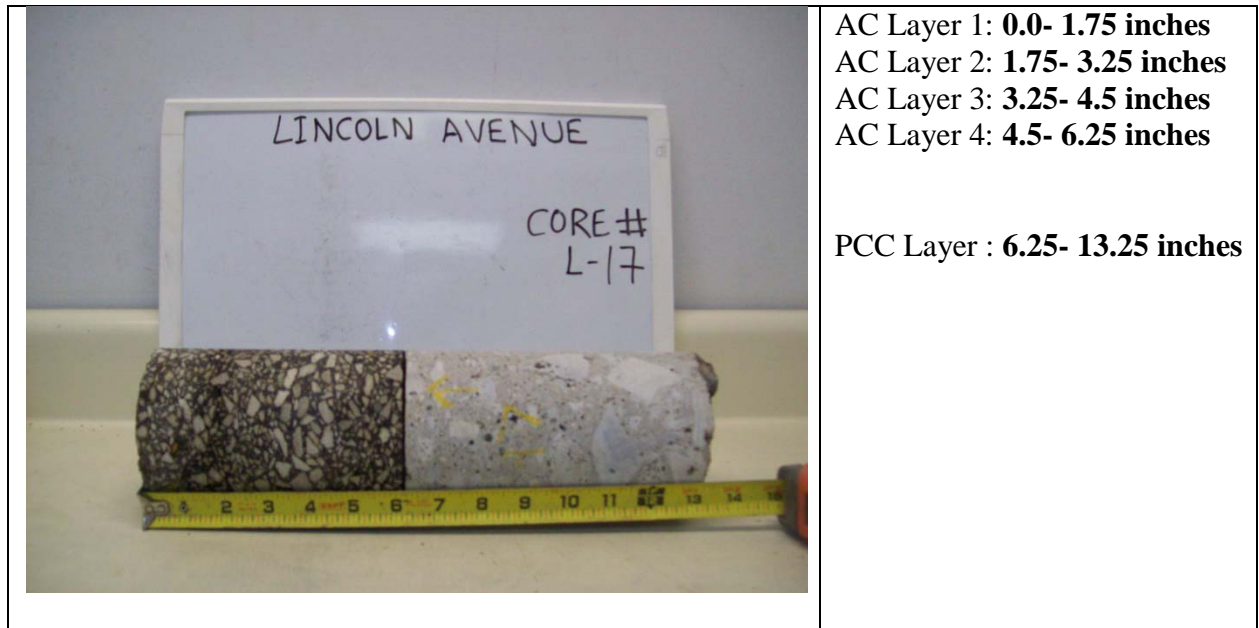




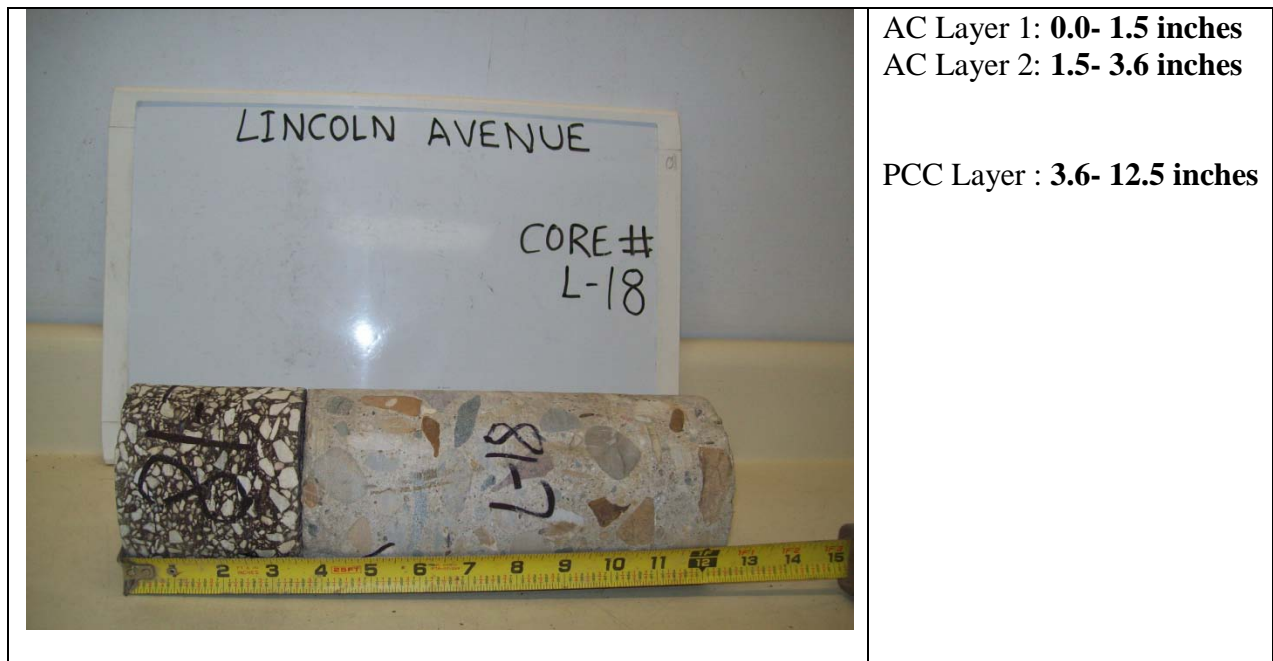
**Figure 15: Lincoln Avenue Core #L-15**



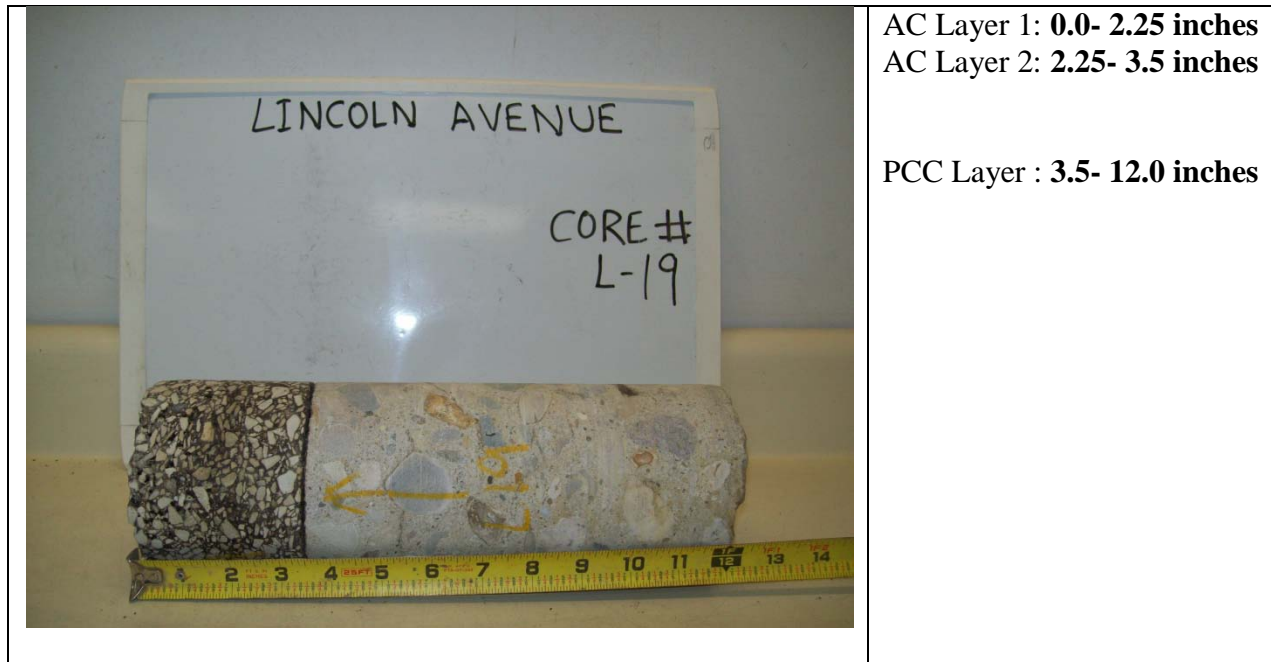
**Figure 16: Lincoln Avenue Core #L-16**



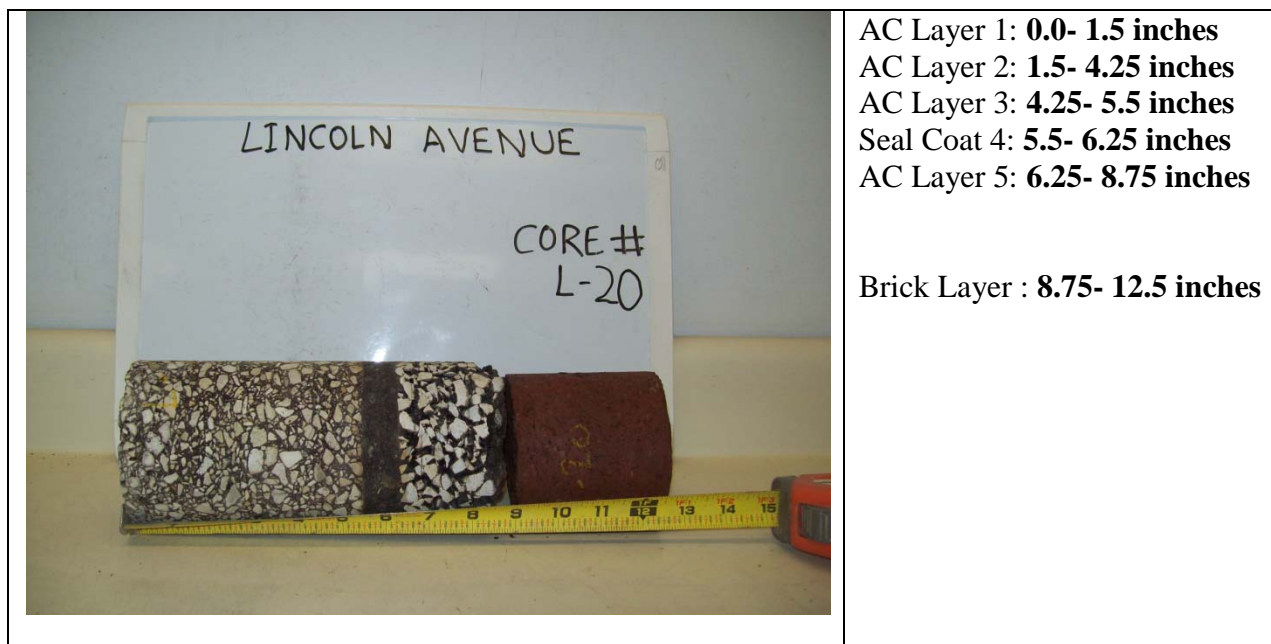
**Figure 17: Lincoln Avenue Core #L-17**



**Figure 18: Lincoln Avenue Core #L-18**



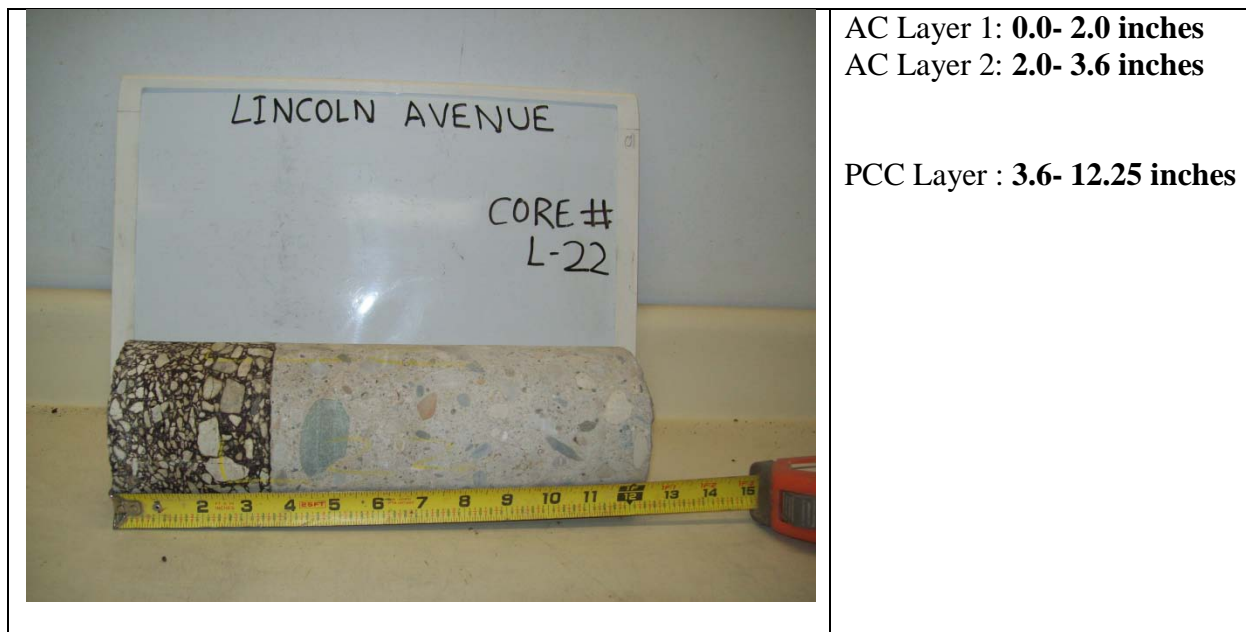
**Figure 19: Lincoln Avenue Core #L-19**



**Figure 20: Lincoln Avenue Core #L-20**

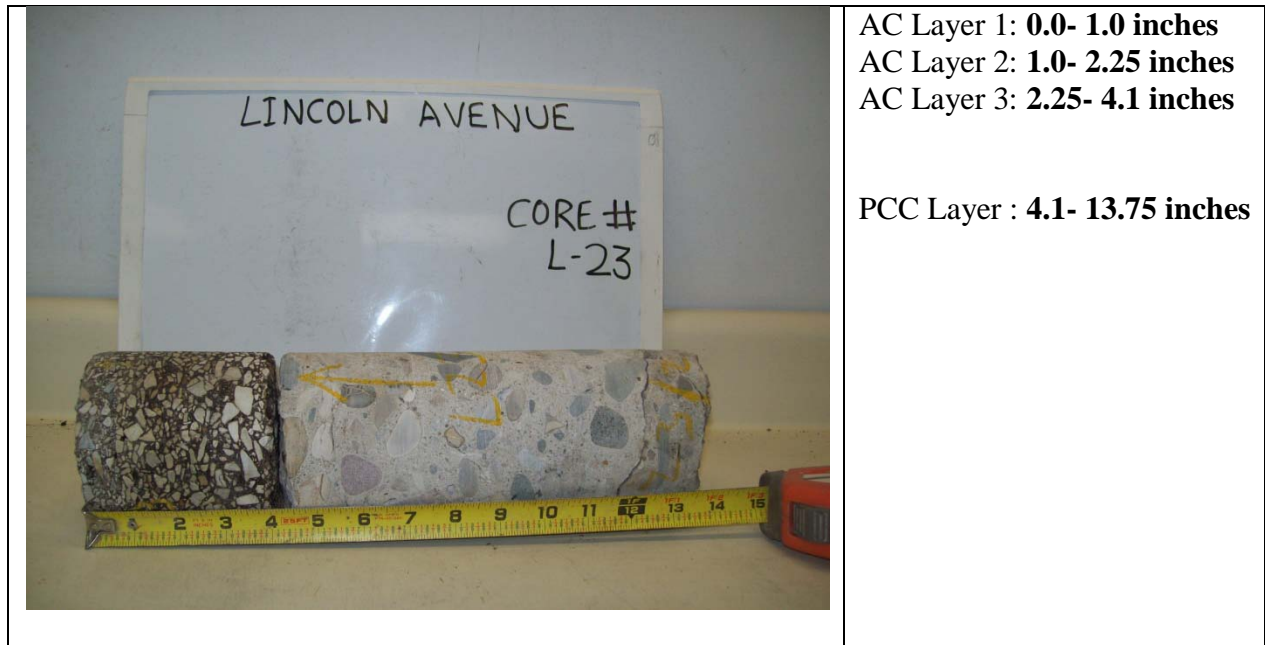


**Figure 21: Lincoln Avenue Core #L-21**



**Figure 22: Lincoln Avenue Core #L-22**

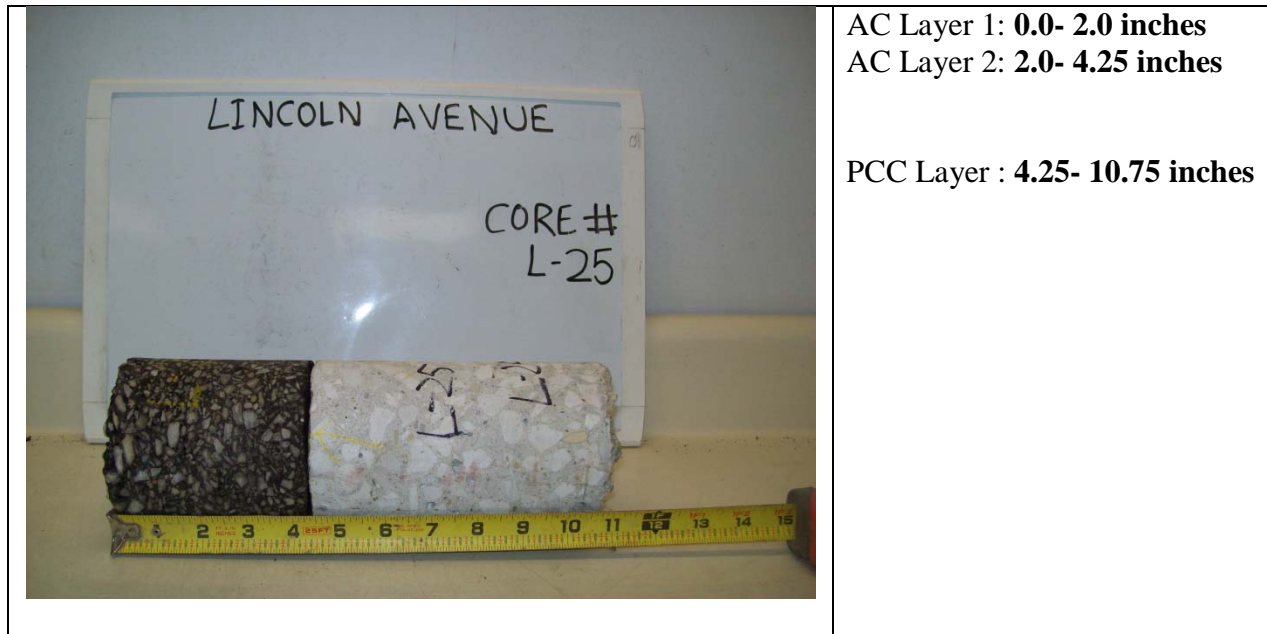




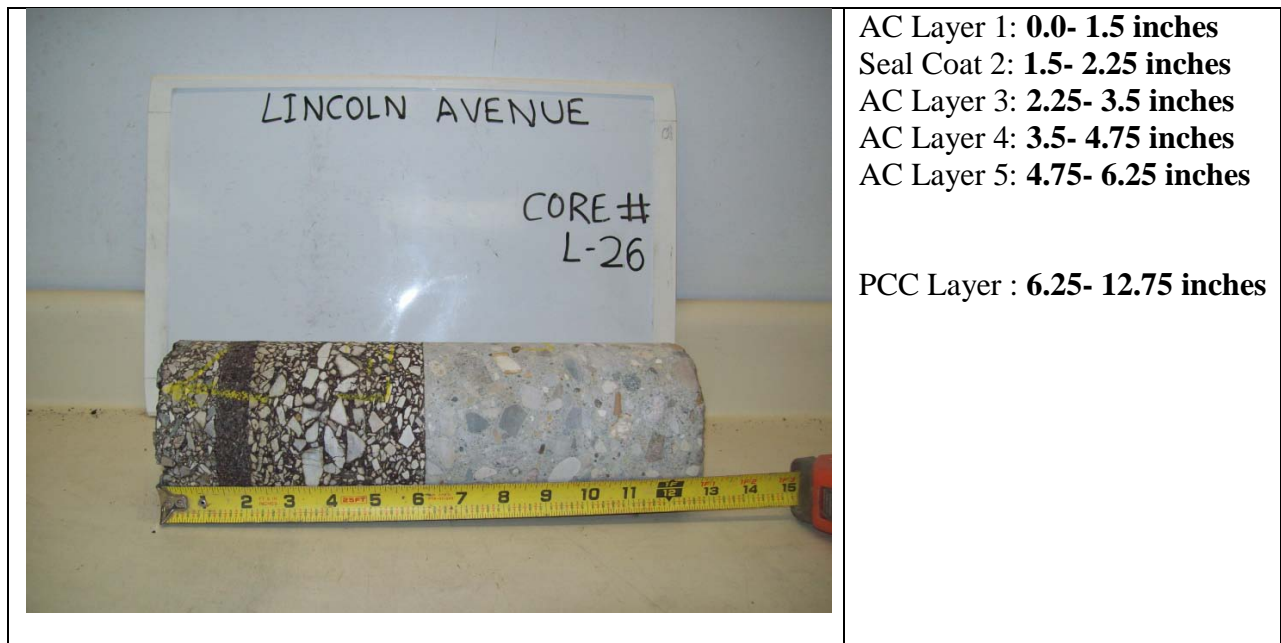
**Figure 23: Lincoln Avenue Core #L-23**



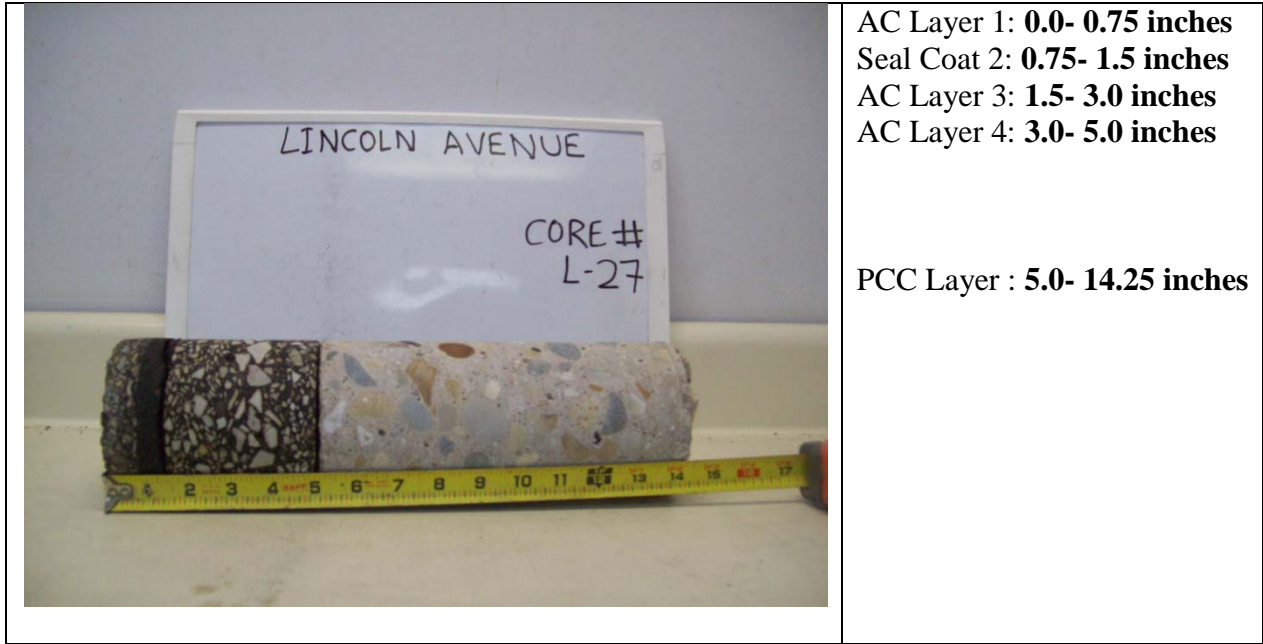
**Figure 24: Lincoln Avenue Core #L-24**



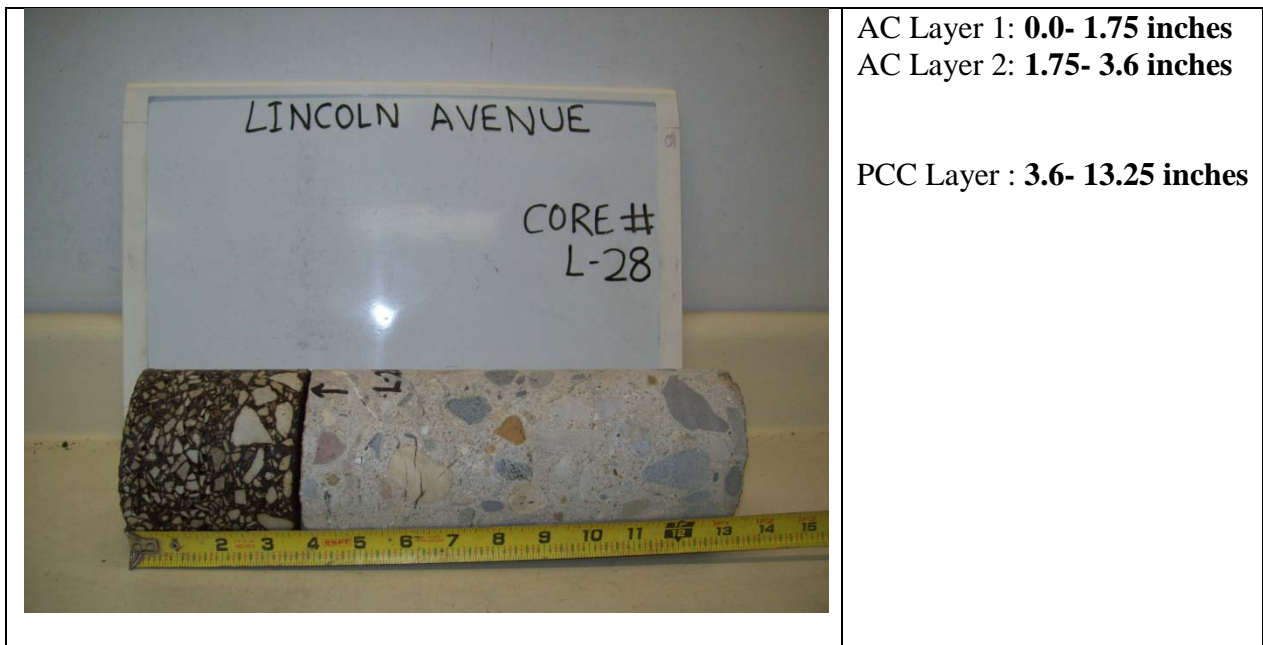
**Figure 25: Lincoln Avenue Core #L-25**



**Figure 26: Lincoln Avenue Core #L-26**



**Figure 27: Lincoln Avenue Core #L-27**

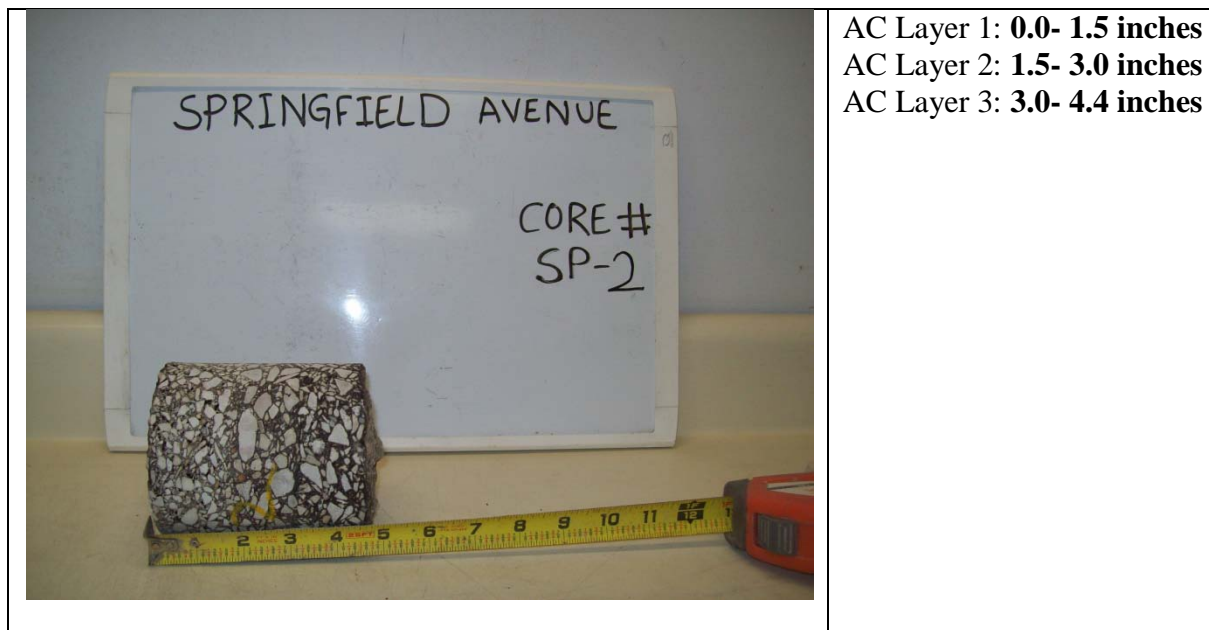


**Figure 28: Lincoln Avenue Core #L-28**

**Springfield Avenue Pavement Cores**



**Figure 29: Springfield Avenue Core #SP-1**

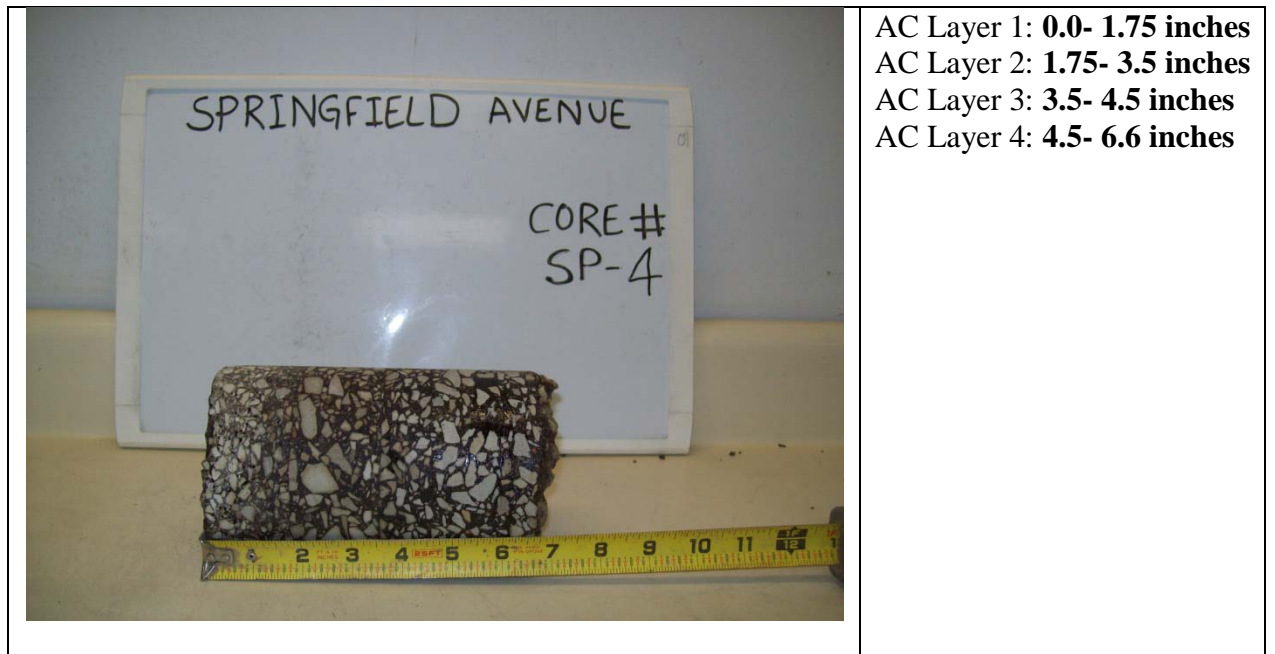


**Figure 30: Springfield Avenue Core #SP-2**

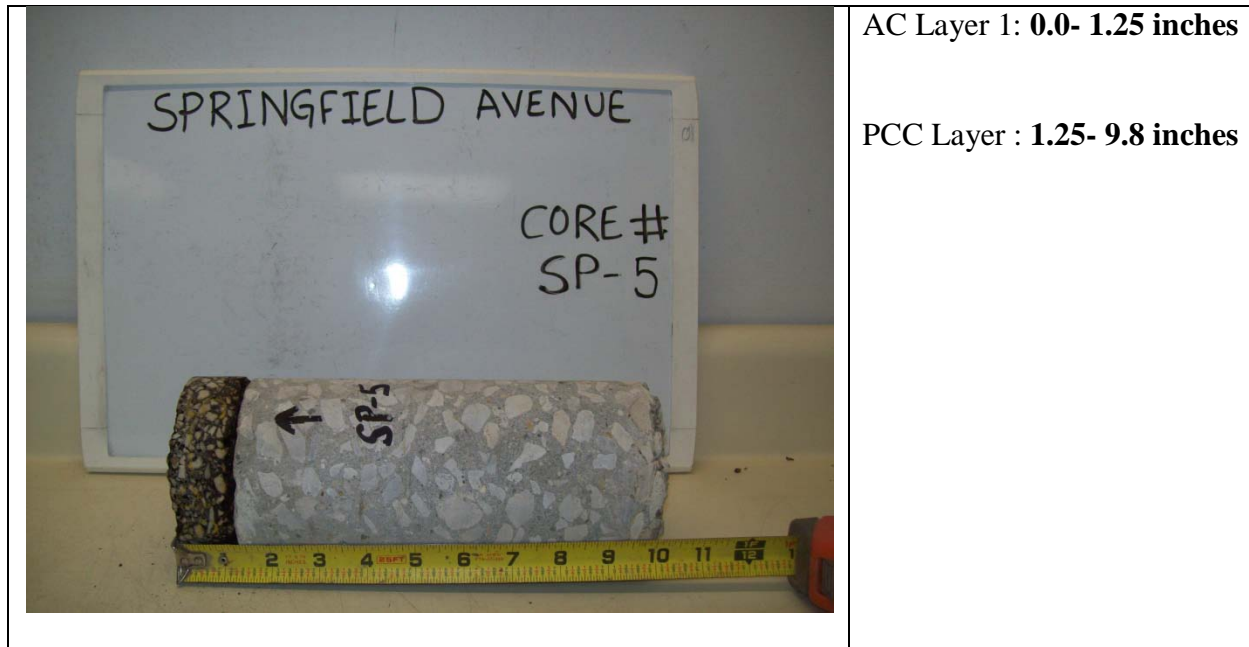




**Figure 31: Springfield Avenue Core #SP-3**



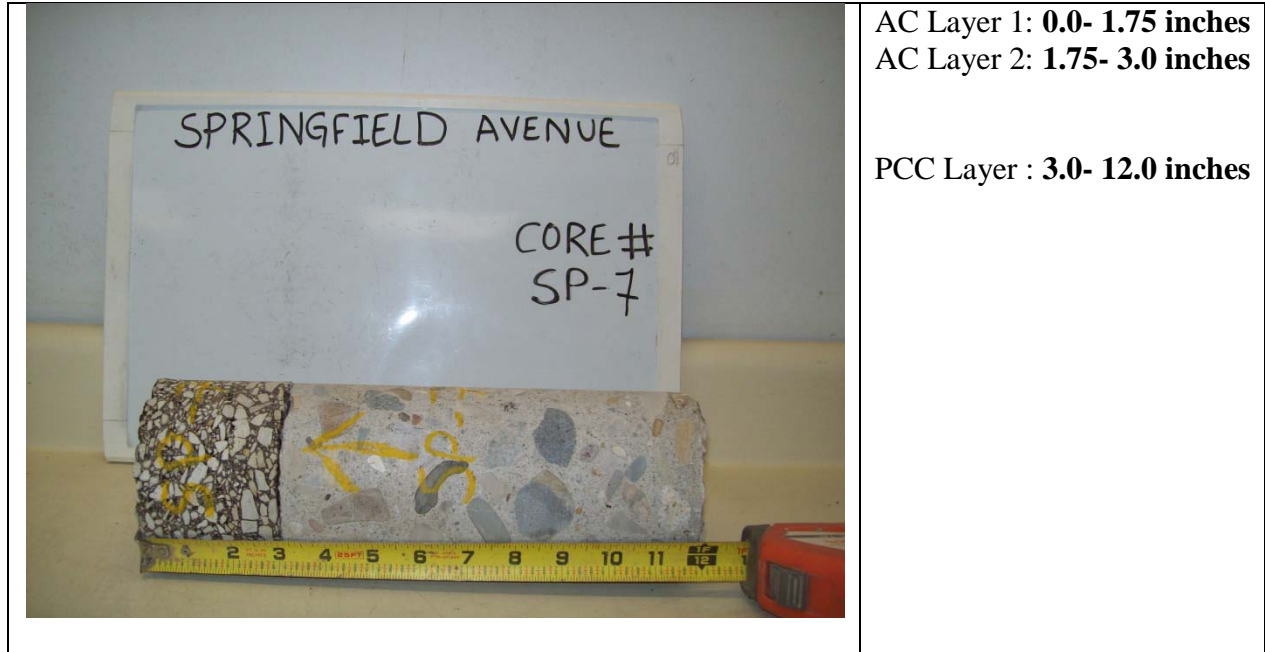
**Figure 32: Springfield Avenue Core #SP-4**



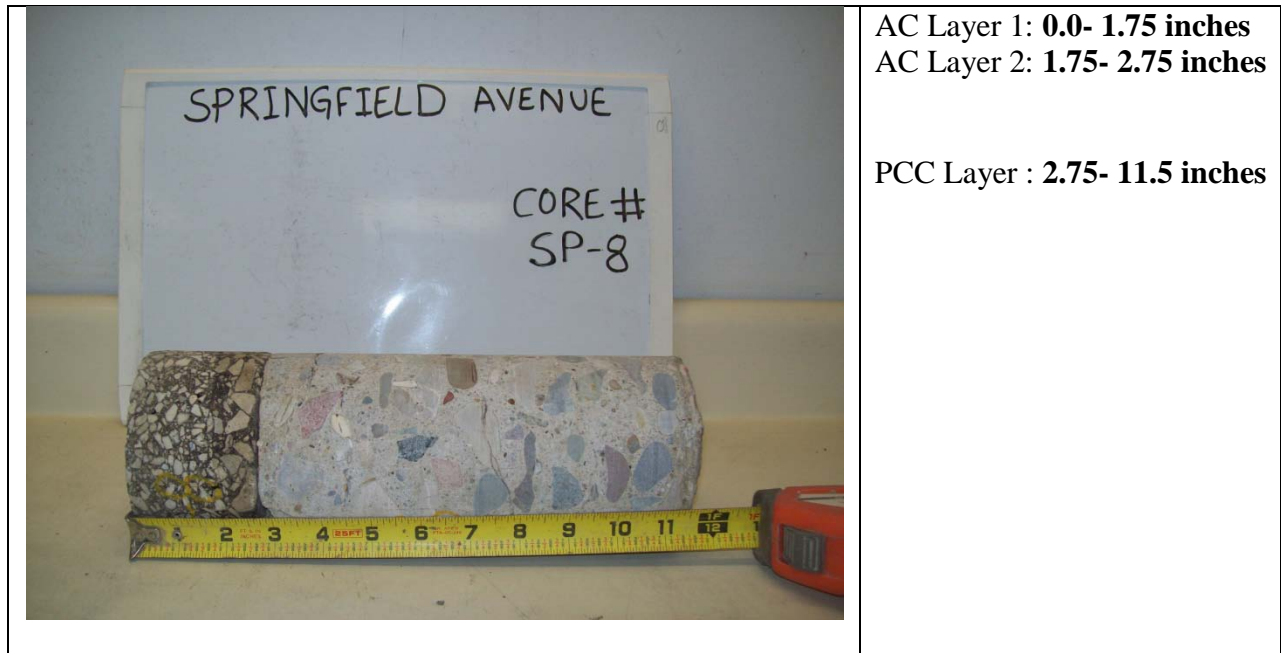
**Figure 33: Springfield Avenue Core #SP-5**



**Figure 34: Springfield Avenue Core #SP-6**



**Figure 35: Springfield Avenue Core #SP-7**



**Figure 36: Springfield Avenue Core #SP-8**



AC Layer 1: **0.0- 2.0 inches**  
 AC Layer 2: **2.0- 3.75 inches**  
 AC Layer 3: **3.75- 4.75 inches**  
 AC Layer 4: **4.75- 6.75 inches**

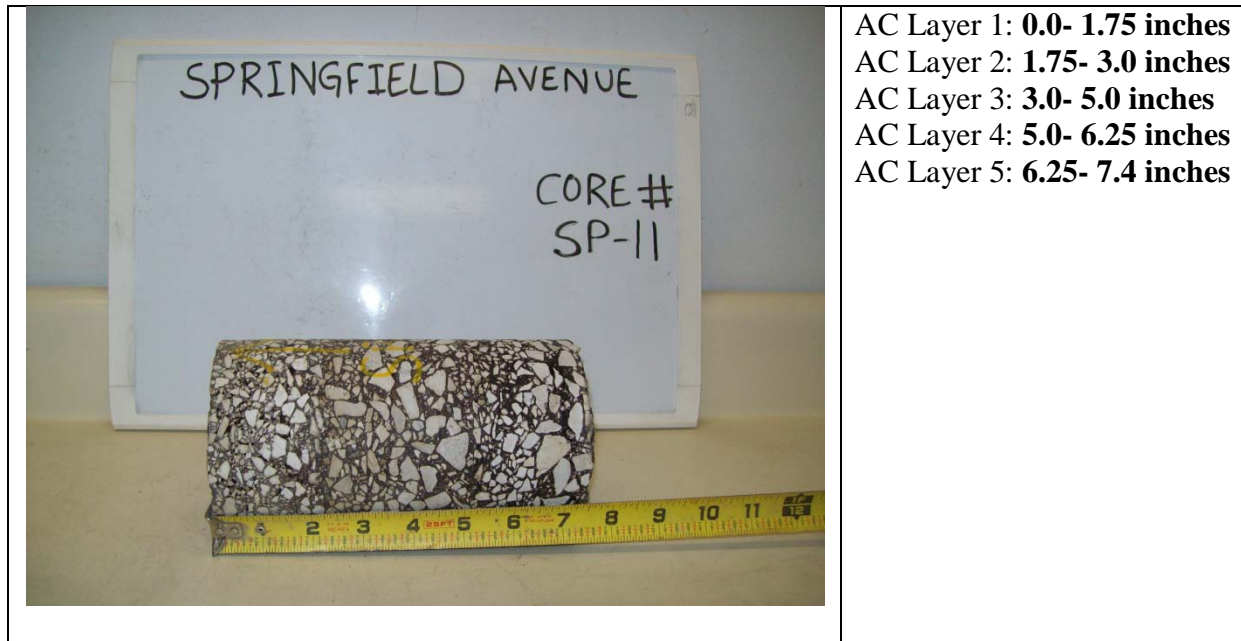
**Figure 37: Springfield Avenue Core #SP-9**



AC Layer 1: **0.0- 1.75 inches**  
 AC Layer 2: **1.75- 2.75 inches**  
  
 PCC Layer : **2.75- 10.5 inches**

**Figure 38: Springfield Avenue Core #SP-10**

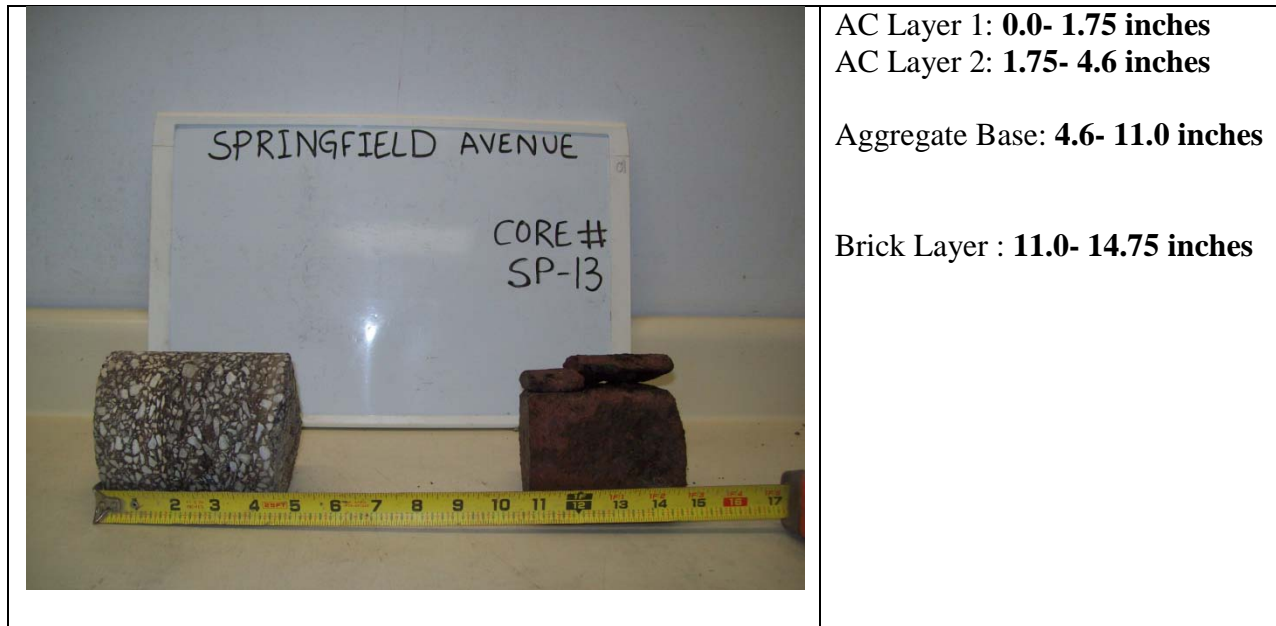




**Figure 39: Springfield Avenue Core #SP-11**



**Figure 40: Springfield Avenue Core #SP-12**



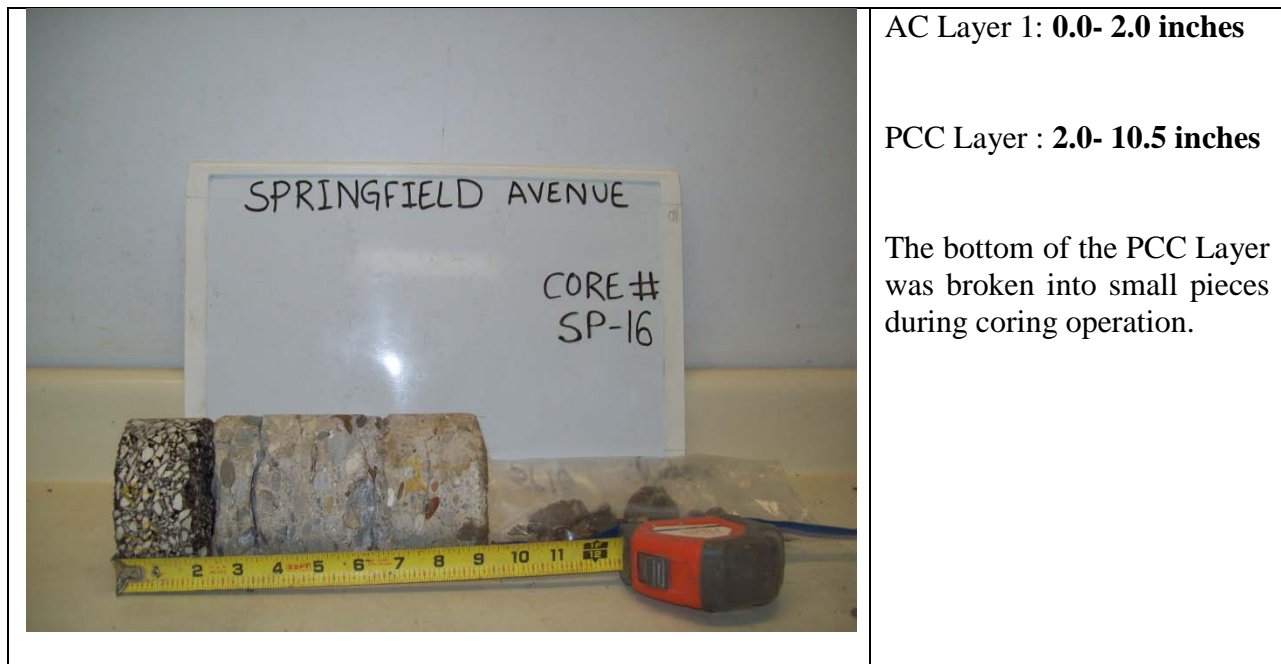
**Figure 41: Springfield Avenue Core #SP-13**



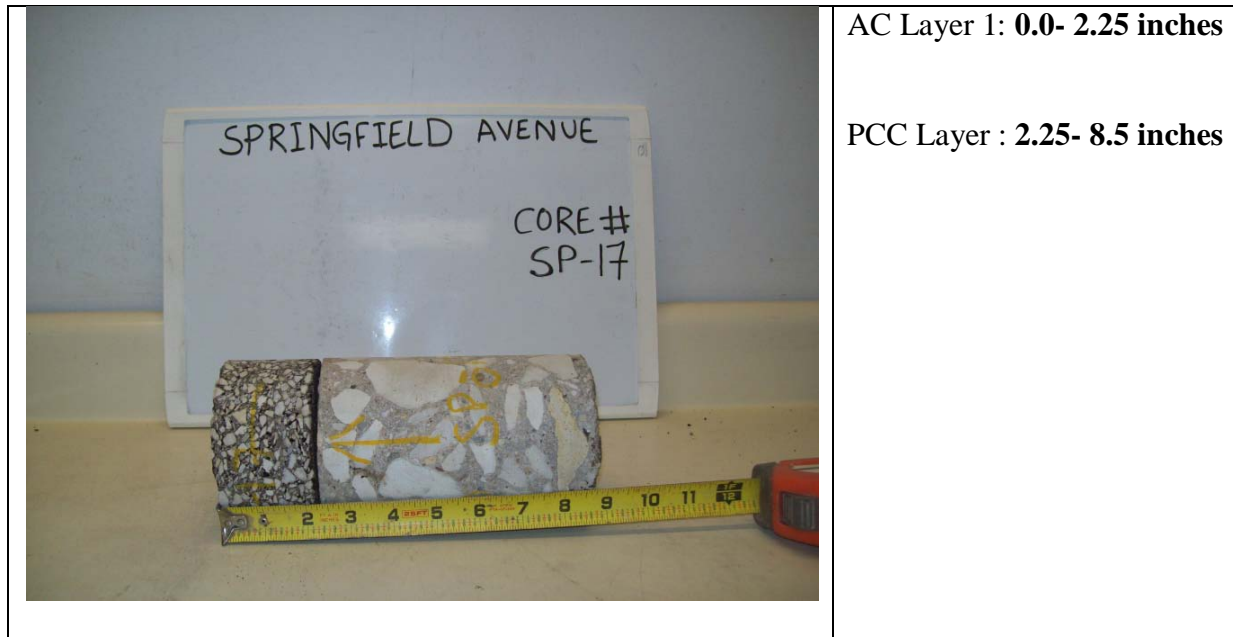
**Figure 42: Springfield Avenue Core #SP-14**



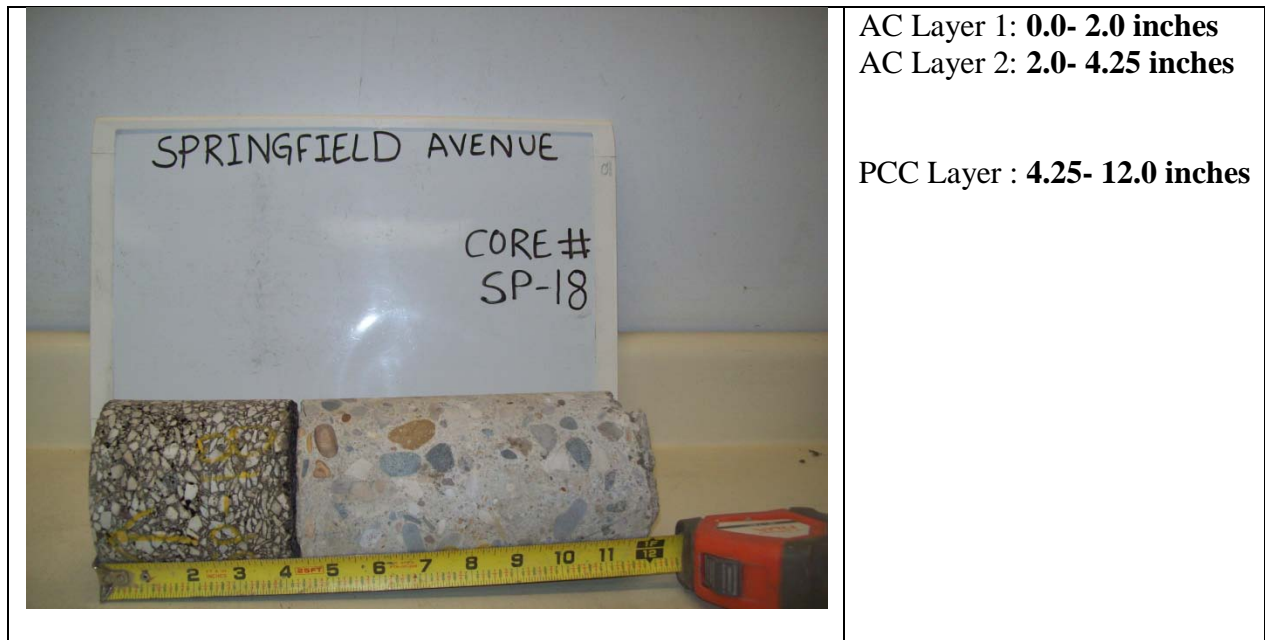
**Figure 43: Springfield Avenue Core #SP-15**



**Figure 44: Springfield Avenue Core #SP-16**



**Figure 45: Springfield Avenue Core #SP-17**



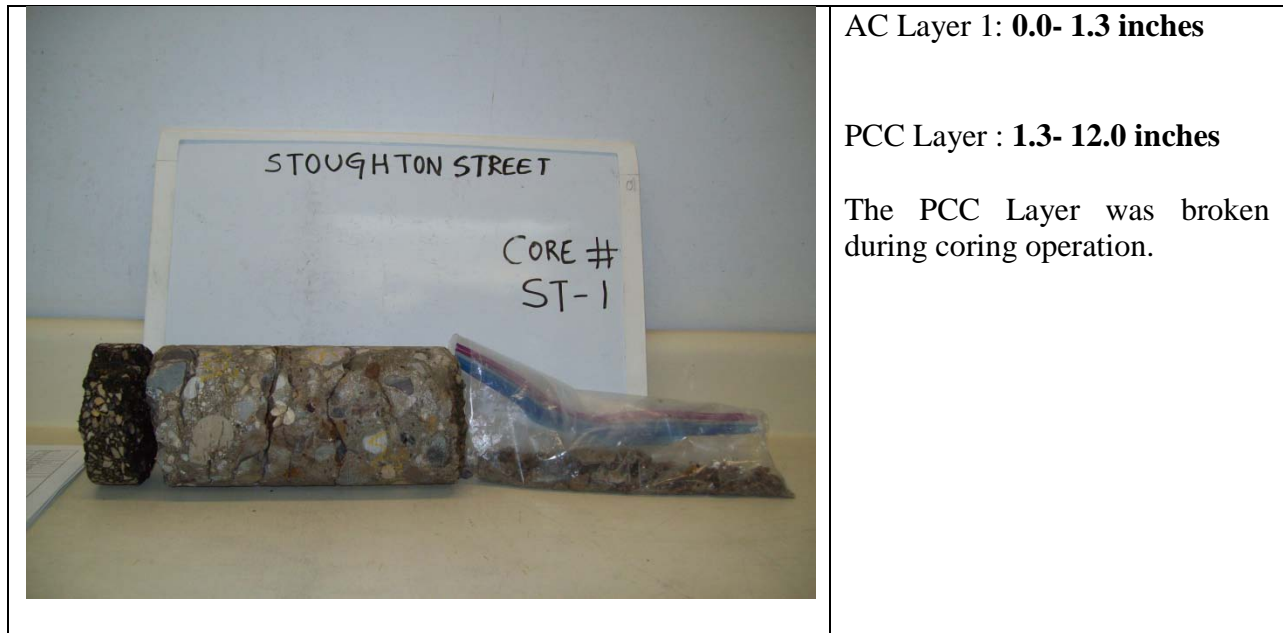
**Figure 46: Springfield Avenue Core #SP-18**





**Figure 47: Springfield Avenue Core #SP-19**

**Stoughton Street Pavement Cores**



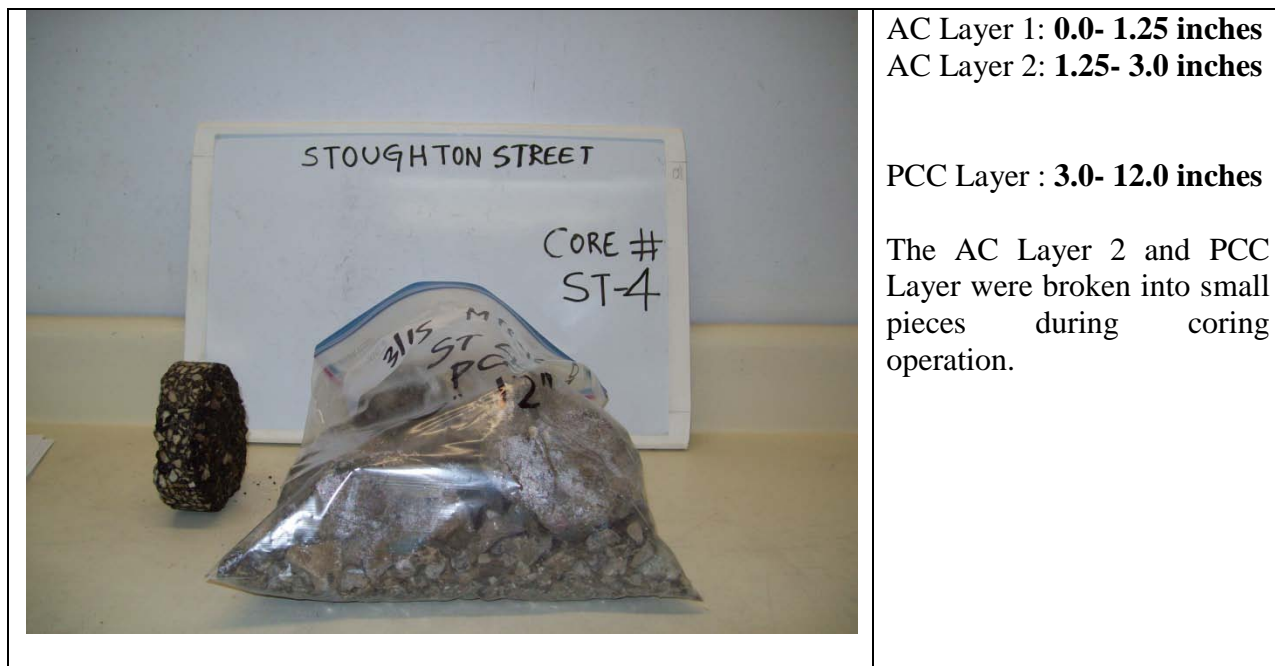
**Figure 48: Stoughton Street Core #ST-1**



**Figure 49: Stoughton Street Core #ST-2**



**Figure 50: Stoughton Street Core #ST-3**



**Figure 51: Stoughton Street Core #ST-4**

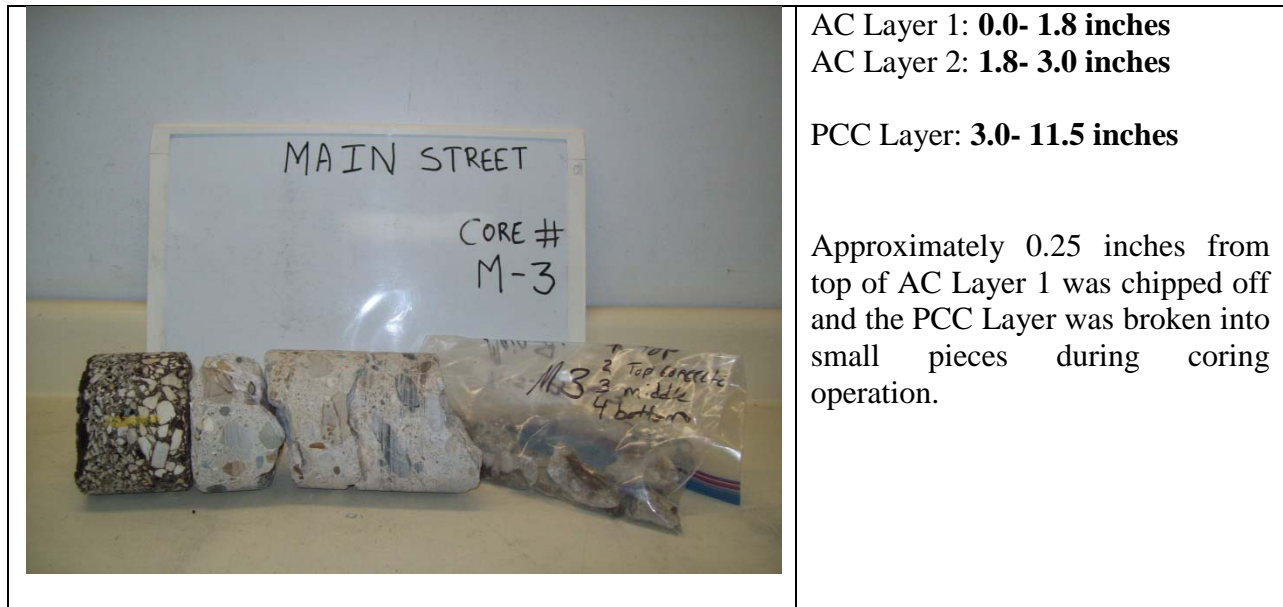
**Main Street Pavement Cores**

	<p>AC Layer 1: <b>0.0- 1.5 inches</b>            AC Layer 2: <b>1.5- 2.5 inches</b>            AC Layer 3: <b>2.5- 6.75 inches</b></p> <p>Brick Layer: <b>6.75- 10.5 inches</b>            Sand Layer: <b>10.5- 12.25 inches</b>            Brick Layer: <b>12.25- 16.0 inches</b></p> <p>The AC Layer 3 and the Brick Layers were broken into small pieces during coring operation.</p>
--	--

**Figure 52: Main Street Core #M-1**

	<p>AC Layer 1: <b>0.0- 1.5 inches</b>            AC Layer 2: <b>1.5- 2.75 inches</b>            AC Layer 3: <b>2.75- 6.5 inches</b></p> <p>Brick Layer: <b>6.5- 10.25 inches</b>            Sand Layer: <b>10.25- 10.5 inches</b>            Brick Layer: <b>10.5- 14.25 inches</b></p> <p>The AC Layer 3 and the Brick Layers were broken into small pieces during coring operation.</p>
--	---

**Figure 53: Main Street Core #M-2**

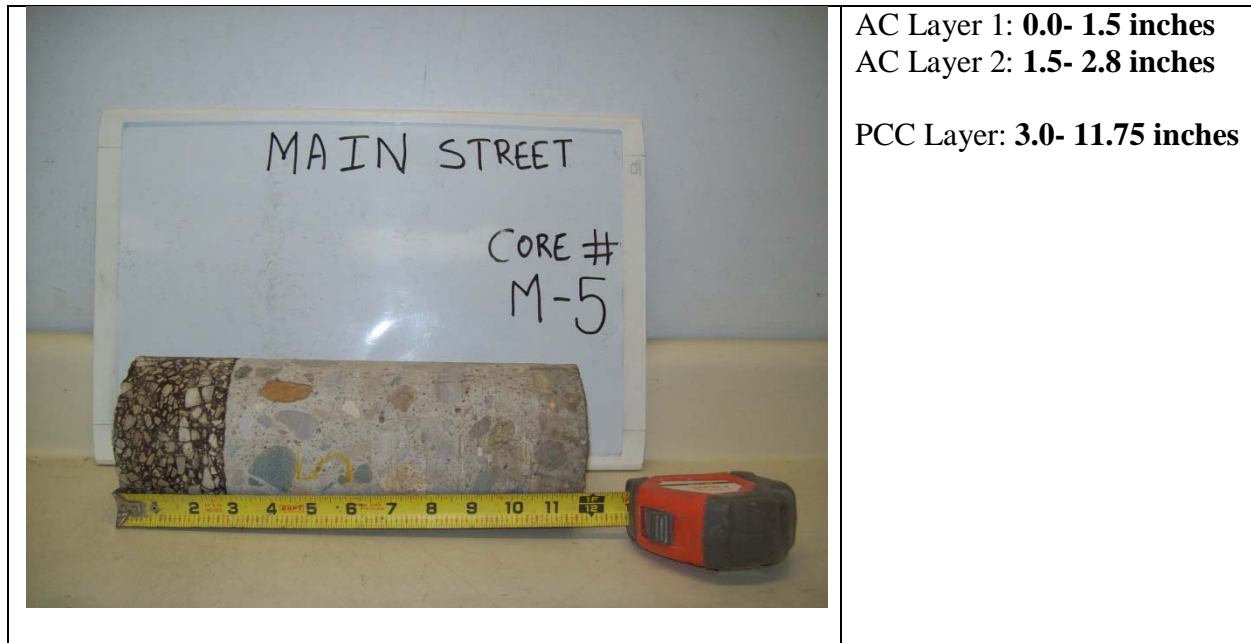


**Figure 54: Main Street Core #M-3**

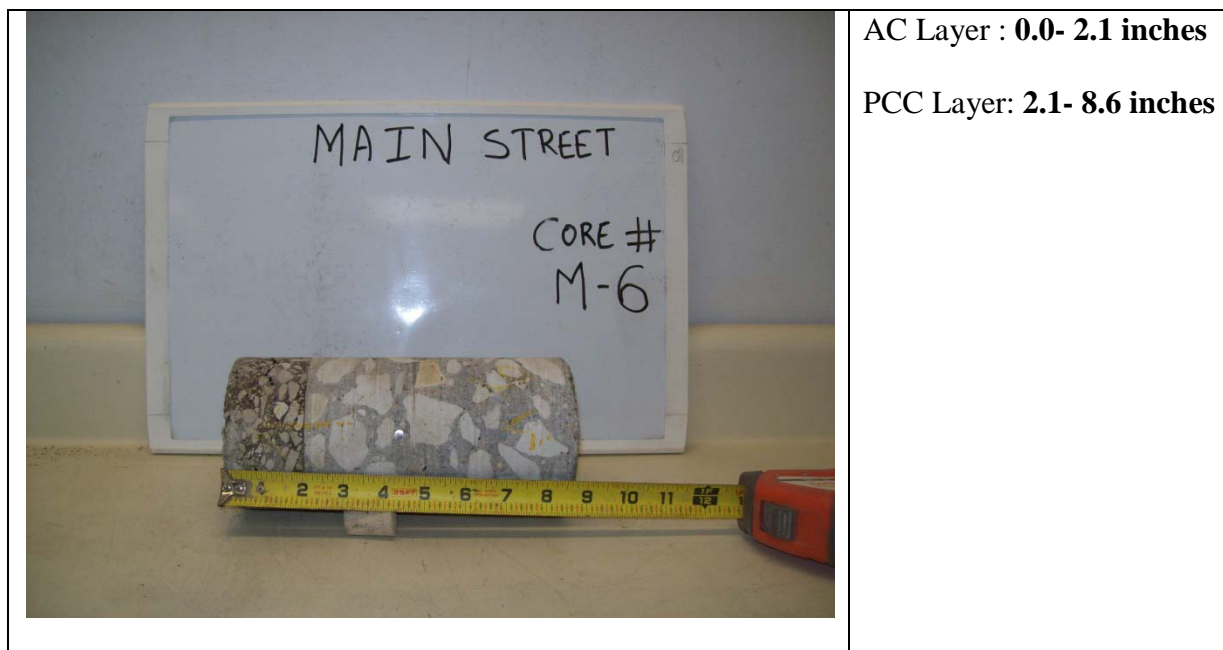


**Figure 55: Main Street Core #M-4**

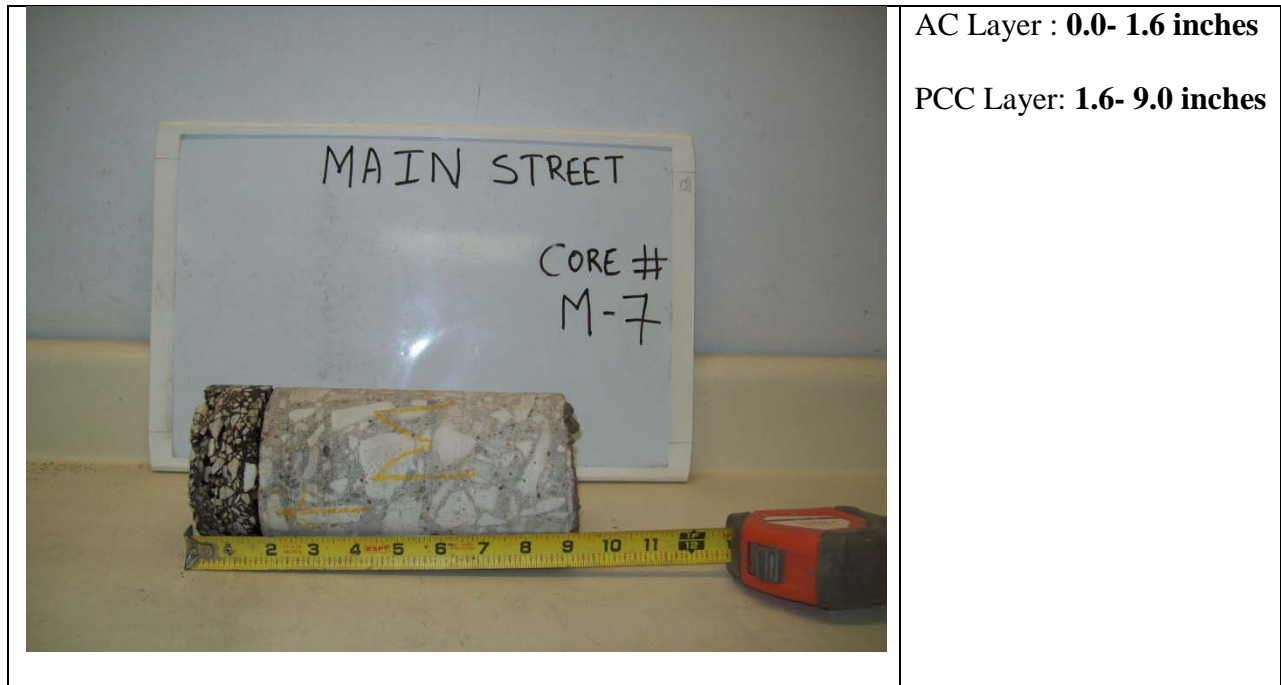




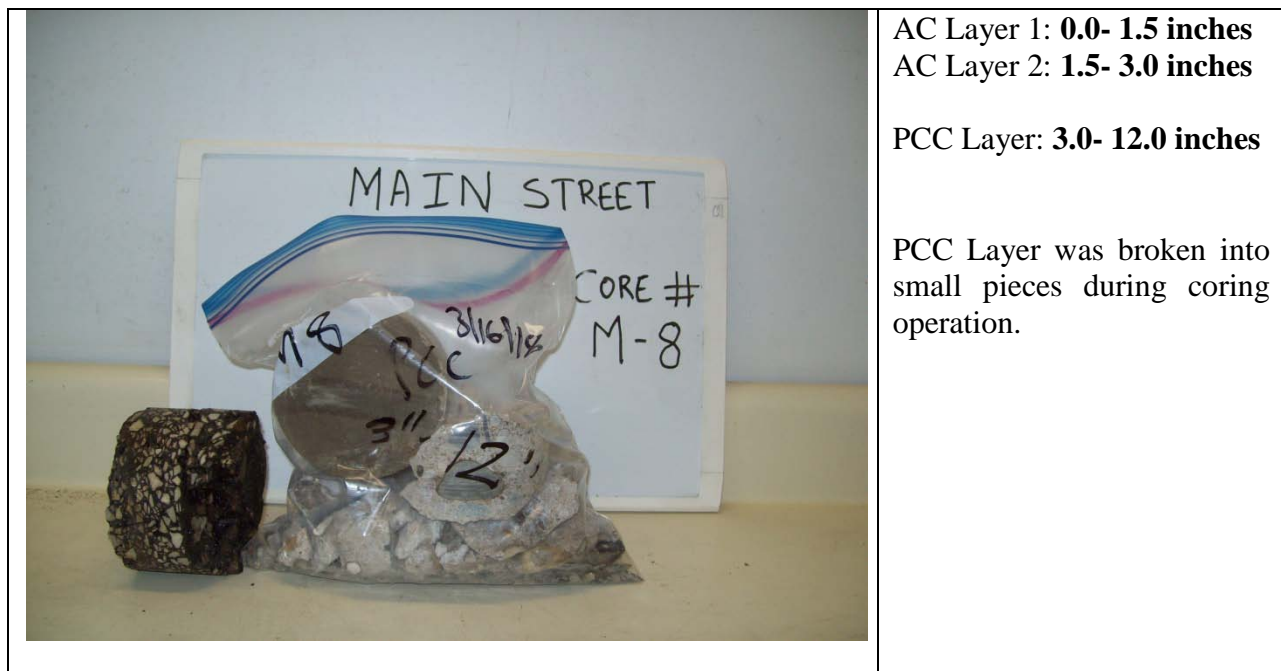
**Figure 56: Main Street Core #M-5**



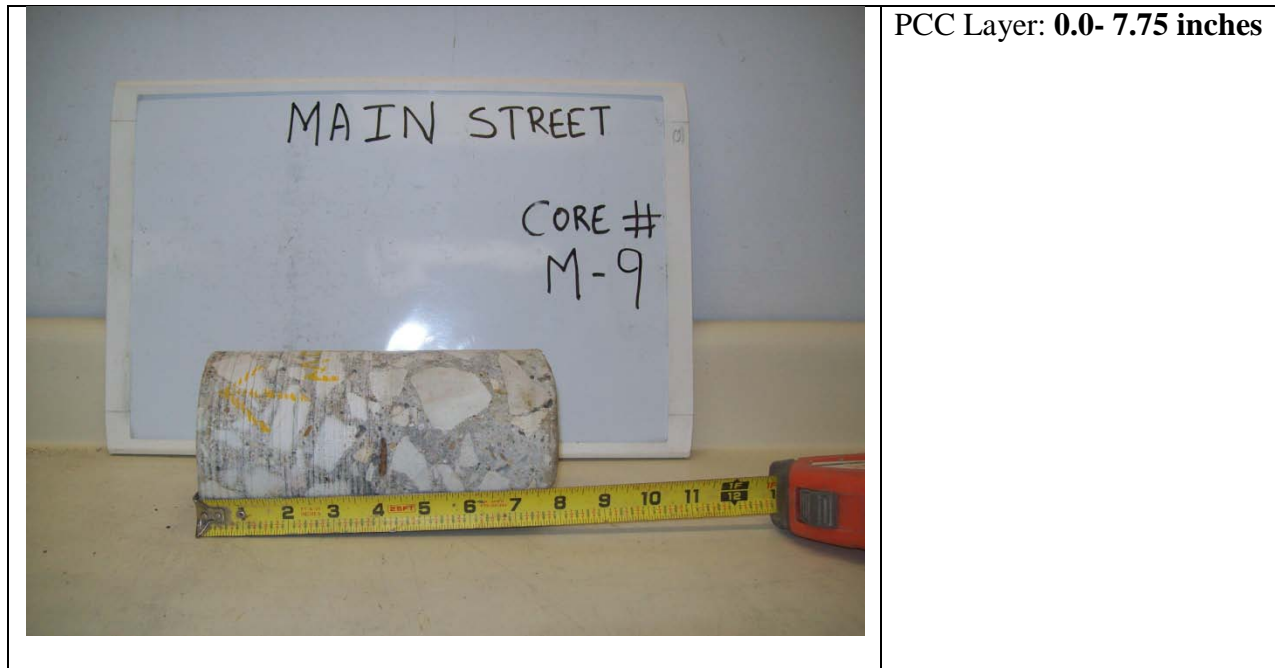
**Figure 57: Main Street Core #M-6**



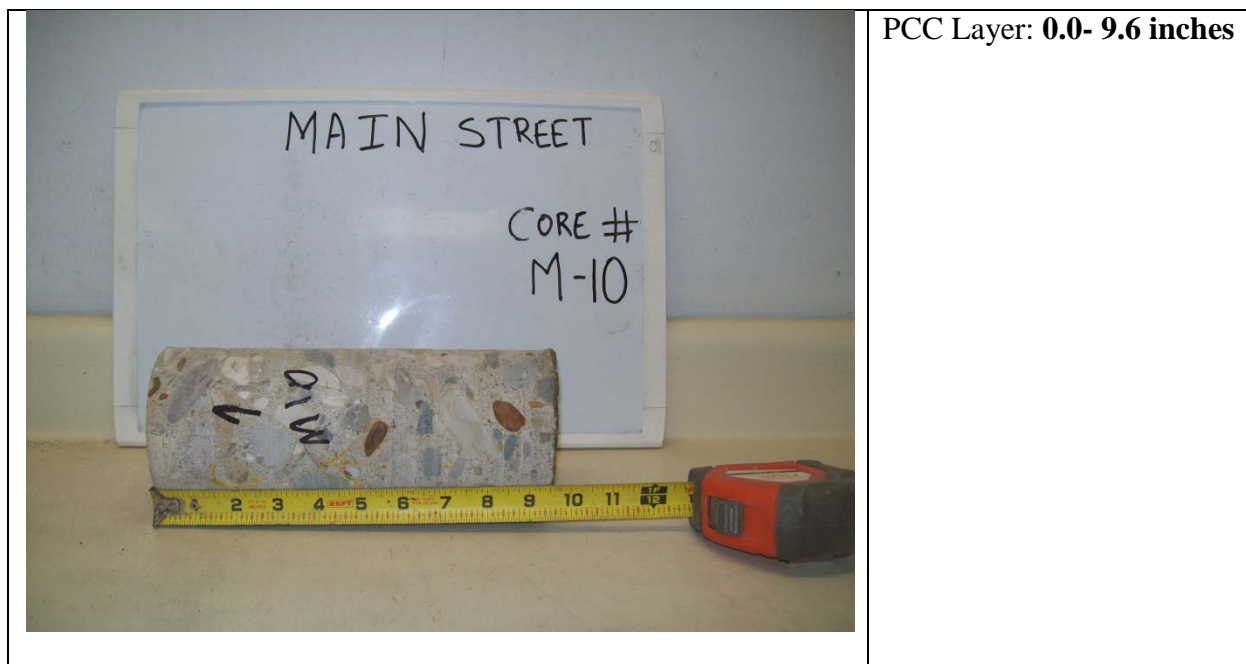
**Figure 58: Main Street Core #M-7**



**Figure 59: Main Street Core #M-8**



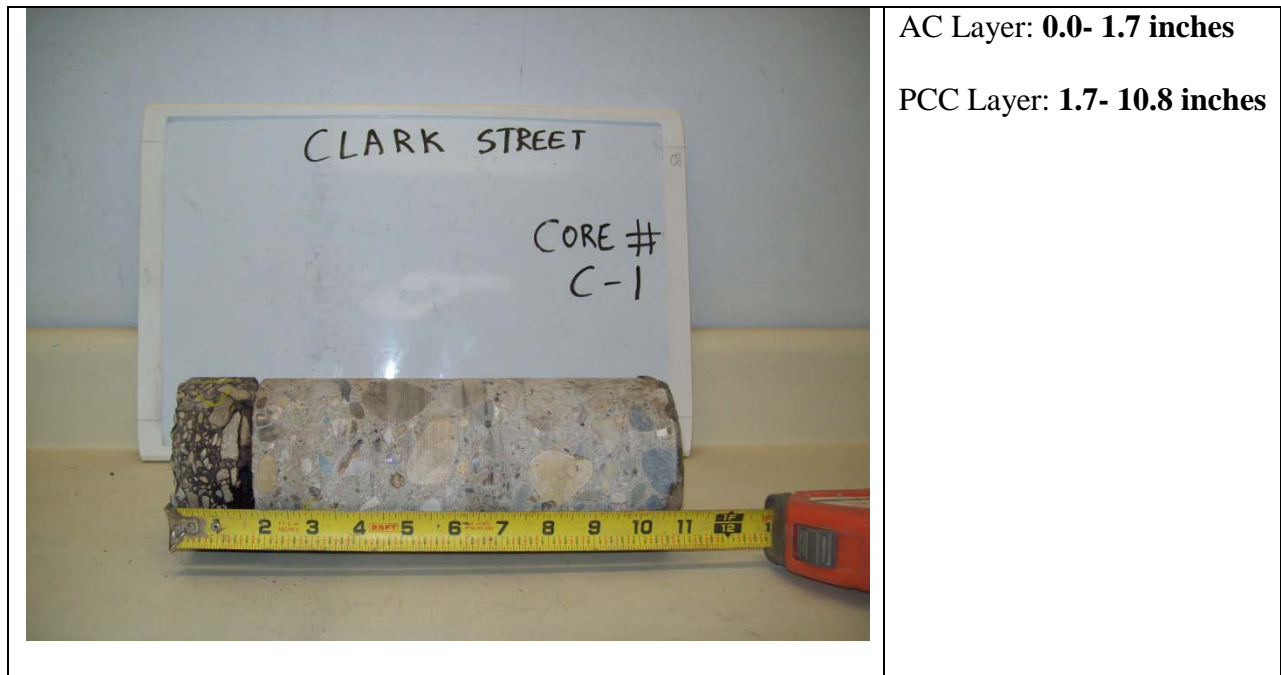
**Figure 60: Main Street Core #M-9**



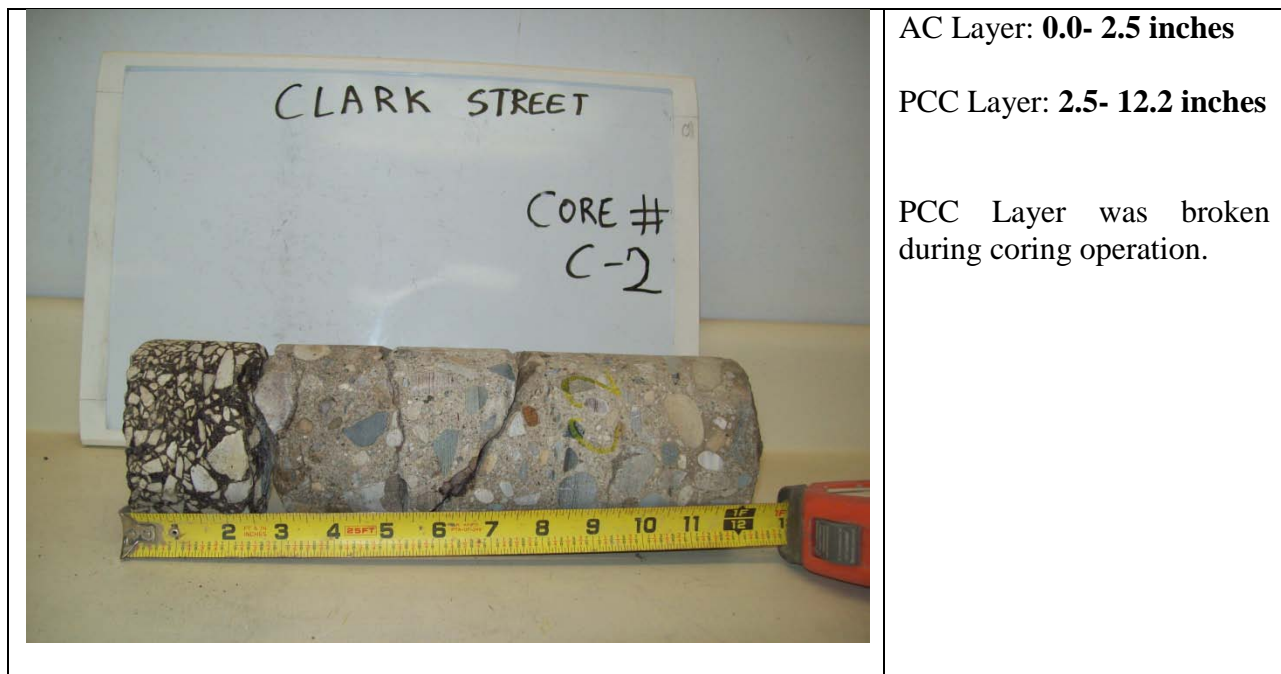
**Figure 61: Main Street Core #M-10**



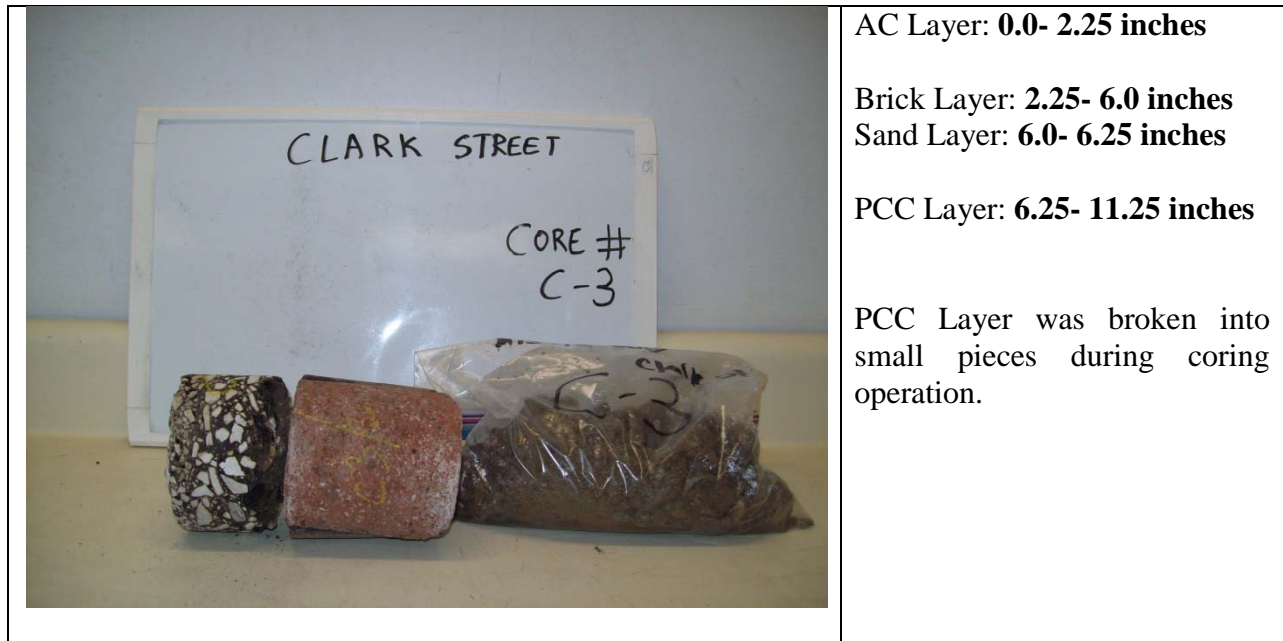
**Clark Street Pavement Cores**



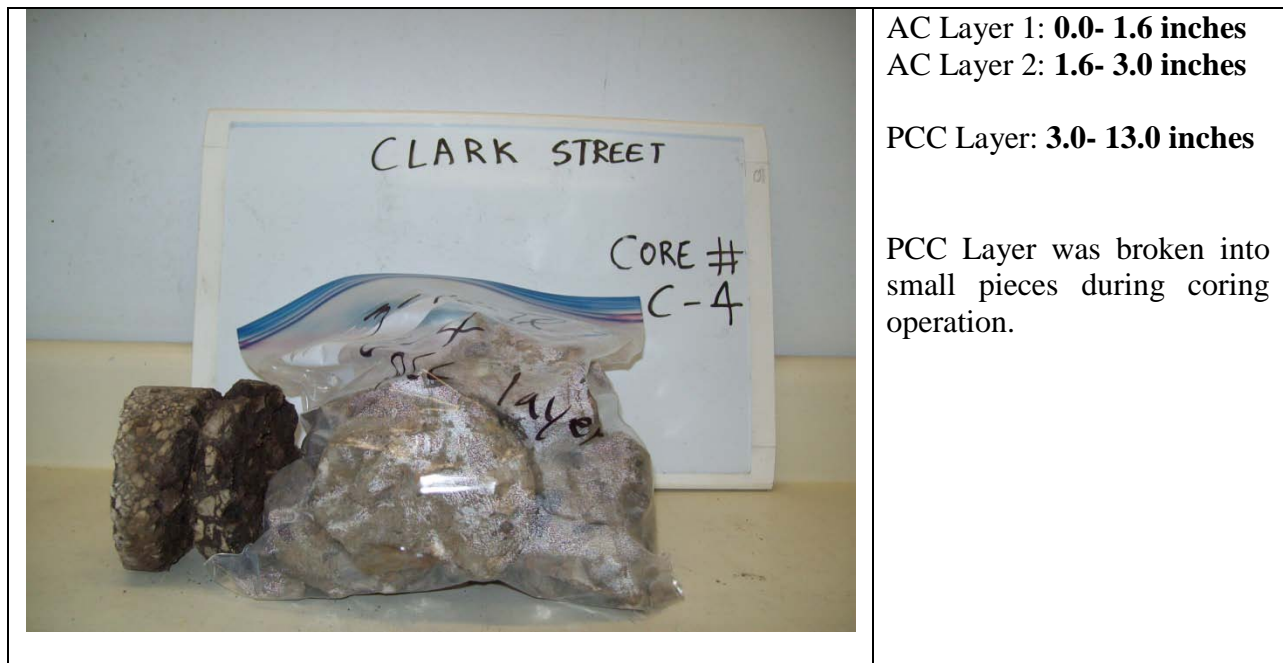
**Figure 62: Clark Street Core #C-1**



**Figure 63: Clark Street Core #C-2**



**Figure 64: Clark Street Core #C-3**



**Figure 65: Clark Street Core #C-4**

**SECTION E**

IDOT Recurring Special Provisions and BDE Special Provisions



Local Public Agency	County	Section Number
City of Urbana Public Works	Champaign	17-00592-00-RS

Check this box for lettings prior to 01/01/2021.

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

Recurring Special Provisions

<u>Check Sheet #</u>		<u>Page No.</u>
1	<input type="checkbox"/> Additional State Requirements for Federal-Aid Construction Contracts	97
2	<input type="checkbox"/> Subletting of Contracts (Federal-Aid Contracts)	100
3	<input type="checkbox"/> EEO	101
4	<input type="checkbox"/> Specific EEO Responsibilities Non Federal-Aid Contracts	111
5	<input type="checkbox"/> Required Provisions - State Contracts	116
6	<input type="checkbox"/> Asbestos Bearing Pad Removal	122
7	<input type="checkbox"/> Asbestos Waterproofing Membrane and Asbestos HMA Surface Removal	123
8	<input type="checkbox"/> Temporary Stream Crossings and In-Stream Work Pads	124
9	<input type="checkbox"/> Construction Layout Stakes Except for Bridges	125
10	<input checked="" type="checkbox"/> Construction Layout Stakes	128
11	<input type="checkbox"/> Use of Geotextile Fabric for Railroad Crossing	131
12	<input type="checkbox"/> Subsealing of Concrete Pavements	133
13	<input type="checkbox"/> Hot-Mix Asphalt Surface Correction	137
14	<input type="checkbox"/> Pavement and Shoulder Resurfacing	139
15	<input type="checkbox"/> Patching with Hot-Mix Asphalt Overlay Removal	140
16	<input type="checkbox"/> Polymer Concrete	142
17	<input type="checkbox"/> PVC Pipeliner	144
18	<input type="checkbox"/> Bicycle Racks	145
19	<input type="checkbox"/> Temporary Portable Bridge Traffic Signals	147
20	<b>Reserved</b>	149
21	<input type="checkbox"/> Nighttime Inspection of Roadway Lighting	150
22	<input type="checkbox"/> English Substitution of Metric Bolts	151
23	<input type="checkbox"/> Calcium Chloride Accelerator for Portland Cement Concrete	152
24	<input type="checkbox"/> Quality Control of Concrete Mixtures at the Plant	153
25	<input type="checkbox"/> Quality Control/Quality Assurance of Concrete Mixtures	161
26	<input type="checkbox"/> Digital Terrain Modeling for Earthwork Calculations	177
27	<b>Reserved</b>	179
28	<input type="checkbox"/> Preventive Maintenance - Bituminous Surface Treatment (A-1)	180
29	<b>Reserved</b>	186
30	<b>Reserved</b>	187
31	<b>Reserved</b>	188
32	<input type="checkbox"/> Temporary Raised Pavement Markers	189
33	<input type="checkbox"/> Restoring Bridge Approach Pavements Using High-Density Foam	190
34	<input type="checkbox"/> Portland Cement Concrete Inlay or Overlay	193
35	<input type="checkbox"/> Portland Cement Concrete Partial Depth Hot-Mix Asphalt Patching	197
36	<input type="checkbox"/> Longitudinal Joint and Crack Patching	200
37	<input checked="" type="checkbox"/> Concrete Mix Design - Department Provided	202

Local Public Agency

County

Section Number

City of Urbana Public Works

Champaign

17-00592-00-RS

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

Local Roads And Streets Recurring Special Provisions

<u>Check Sheet #</u>		<u>Page No.</u>
LRS 1	<b>Reserved</b>	204
LRS 2	<input type="checkbox"/> Furnished Excavation	205
LRS 3	<input checked="" type="checkbox"/> Work Zone Traffic Control Surveillance	206
LRS 4	<input checked="" type="checkbox"/> Flaggers in Work Zones	207
LRS 5	<input checked="" type="checkbox"/> Contract Claims	208
LRS 6	<input checked="" type="checkbox"/> Bidding Requirements and Conditions for Contract Proposals	209
LRS 7	<input type="checkbox"/> Bidding Requirements and Conditions for Material Proposals	215
LRS 8	<b>Reserved</b>	221
LRS 9	<input type="checkbox"/> Bituminous Surface Treatments	222
LRS 10	<b>Reserved</b>	223
LRS 11	<input checked="" type="checkbox"/> Employment Practices	224
LRS 12	<input checked="" type="checkbox"/> Wages of Employees on Public Works	226
LRS 13	<input checked="" type="checkbox"/> Selection of Labor	228
LRS 14	<input type="checkbox"/> Paving Brick and Concrete Paver Pavements and Sidewalks	229
LRS 15	<input checked="" type="checkbox"/> Partial Payments	232
LRS 16	<input type="checkbox"/> Protests on Local Lettings	233
LRS 17	<input checked="" type="checkbox"/> Substance Abuse Prevention Program	234
LRS 18	<input type="checkbox"/> Multigrade Cold Mix Asphalt	235

BDE SPECIAL PROVISIONS  
For the January 15 and March 5, 2021 Lettings

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

File Name	#		Special Provision Title	Effective	Revised
80099	1	<input type="checkbox"/>	Accessible Pedestrian Signals (APS)	April 1, 2003	April 1, 2020
80274	2	<input type="checkbox"/>	Aggregate Subgrade Improvement	April 1, 2012	April 1, 2016
80192	3	<input type="checkbox"/>	Automated Flagger Assistance Device	Jan. 1, 2008	
80173	4	<input type="checkbox"/>	Bituminous Materials Cost Adjustments	Nov. 2, 2006	Aug. 1, 2017
80426	5	<input type="checkbox"/>	Bituminous Surface Treatment with Fog Seal	Jan. 1, 2020	
80241	6	<input type="checkbox"/>	Bridge Demolition Debris	July 1, 2009	
50261	7	<input type="checkbox"/>	Building Removal-Case I (Non-Friable and Friable Asbestos)	Sept. 1, 1990	April 1, 2010
50481	8	<input type="checkbox"/>	Building Removal-Case II (Non-Friable Asbestos)	Sept. 1, 1990	April 1, 2010
50491	9	<input type="checkbox"/>	Building Removal-Case III (Friable Asbestos)	Sept. 1, 1990	April 1, 2010
50531	10	<input type="checkbox"/>	Building Removal-Case IV (No Asbestos)	Sept. 1, 1990	April 1, 2010
*	80425	<input type="checkbox"/>	Cape Seal	Jan. 1, 2020	Jan. 1, 2021
80384	12	<input type="checkbox"/>	Compensable Delay Costs	June 2, 2017	April 1, 2019
80198	13	<input type="checkbox"/>	Completion Date (via calendar days)	April 1, 2008	
80199	14	<input type="checkbox"/>	Completion Date (via calendar days) Plus Working Days	April 1, 2008	
80293	15	<input type="checkbox"/>	Concrete Box Culverts with Skews > 30 Degrees and Design Fills ≤ 5 Feet	April 1, 2012	July 1, 2016
80311	16	<input type="checkbox"/>	Concrete End Sections for Pipe Culverts	Jan. 1, 2013	April 1, 2016
80261	17	<input type="checkbox"/>	Construction Air Quality – Diesel Retrofit	June 1, 2010	Nov. 1, 2014
80387	18	<input type="checkbox"/>	Contrast Preformed Plastic Pavement Marking	Nov. 1, 2017	
*	80434	<input type="checkbox"/>	Corrugated Plastic Pipe (Culvert and Storm Sewer)	Jan. 1, 2021	
80029	20	<input type="checkbox"/>	Disadvantaged Business Enterprise Participation	Sept. 1, 2000	March 2, 2019
80402	21	<input type="checkbox"/>	Disposal Fees	Nov. 1, 2018	
80378	22	<input type="checkbox"/>	Dowel Bar Inserter	Jan. 1, 2017	Jan. 1, 2018
80421	23	<input type="checkbox"/>	Electric Service Installation	Jan. 1, 2020	
80415	24	<input type="checkbox"/>	Emulsified Asphalts	Aug. 1, 2019	
80423	25	<input type="checkbox"/>	Engineer's Field Office and Laboratory	Jan. 1, 2020	
80229	26	<input type="checkbox"/>	Fuel Cost Adjustment	April 1, 2009	Aug. 1, 2017
80417	27	<input type="checkbox"/>	Geotechnical Fabric for Pipe Underdrains and French Drains	Nov. 1, 2019	
80420	28	<input type="checkbox"/>	Geotextile Retaining Walls	Nov. 1, 2019	
*	80433	<input type="checkbox"/>	Green Preformed Thermoplastic Pavement Markings	Jan. 1, 2021	
80304	30	<input type="checkbox"/>	Grooving for Recessed Pavement Markings	Nov. 1, 2012	Nov. 1, 2020
80422	31	<input type="checkbox"/>	High Tension Cable Median Barrier	Jan. 1, 2020	Nov. 1, 2020
80416	32	<input type="checkbox"/>	Hot-Mix Asphalt – Binder and Surface Course	July 2, 2019	Nov. 1, 2019
80398	33	<input type="checkbox"/>	Hot-Mix Asphalt – Longitudinal Joint Sealant	Aug. 1, 2018	Nov. 1, 2019
*	80406	<input type="checkbox"/>	Hot-Mix Asphalt – Mixture Design Verification and Production (Modified for I-FIT)	Jan. 1, 2019	Jan. 1, 2021
80347	35	<input type="checkbox"/>	Hot-Mix Asphalt – Pay for Performance Using Percent Within Limits – Jobsite Sampling	Nov. 1, 2014	July 2, 2019
80383	36	<input type="checkbox"/>	Hot-Mix Asphalt – Quality Control for Performance	April 1, 2017	July 2, 2019
80411	37	<input type="checkbox"/>	Luminaires, LED	April 1, 2019	
80393	38	<input type="checkbox"/>	Manholes, Valve Vaults, and Flat Slab Tops	Jan. 1, 2018	March 1, 2019
80045	39	<input type="checkbox"/>	Material Transfer Device	June 15, 1999	Aug. 1, 2014
80418	40	<input type="checkbox"/>	Mechanically Stabilized Earth Retaining Walls	Nov. 1, 2019	Nov. 1, 2020
*	80424	<input type="checkbox"/>	Micro-Surfacing and Slurry Sealing	Jan. 1, 2020	Jan. 1, 2021
80428	42	<input type="checkbox"/>	Mobilization	April 1, 2020	
80412	43	<input type="checkbox"/>	Obstruction Warning Luminaires, LED	Aug. 1, 2019	
80430	44	<input type="checkbox"/>	Portland Cement Concrete – Haul Time	July 1, 2020	
80359	45	<input type="checkbox"/>	Portland Cement Concrete Bridge Deck Curing	April 1, 2015	Nov. 1, 2019
80431	46	<input type="checkbox"/>	Portland Cement Concrete Pavement Patching	July 1, 2020	

80432	47	<input type="checkbox"/>	Portland Cement Concrete Pavement Placement	July 1, 2020	
80300	48	<input type="checkbox"/>	Preformed Plastic Pavement Marking Type D - Inlaid	April 1, 2012	April 1, 2016
34261	49	<input type="checkbox"/>	Railroad Protective Liability Insurance	Dec. 1, 1986	Jan. 1, 2006
80157	50	<input type="checkbox"/>	Railroad Protective Liability Insurance (5 and 10)	Jan. 1, 2006	
* 80306	51	<input type="checkbox"/>	Reclaimed Asphalt Pavement (RAP) and Reclaimed Asphalt Shingles (RAS)	Nov. 1, 2012	Jan. 1, 2021
80407	52	<input type="checkbox"/>	Removal and Disposal of Regulated Substances	Jan. 1, 2019	Jan. 1, 2020
80419	53	<input type="checkbox"/>	Silt Fence, Inlet Filters, Ground Stabilization and Riprap Filter Fabric	Nov. 1, 2019	April 1, 2020
80395	54	<input type="checkbox"/>	Sloped Metal End Section for Pipe Culverts	Jan. 1, 2018	
80340	55	<input type="checkbox"/>	Speed Display Trailer	April 2, 2014	Jan. 1, 2017
80127	56	<input type="checkbox"/>	Steel Cost Adjustment	April 2, 2004	Aug. 1, 2017
80408	57	<input type="checkbox"/>	Steel Plate Beam Guardrail Manufacturing	Jan. 1, 2019	
80413	58	<input type="checkbox"/>	Structural Timber	Aug. 1, 2019	
80397	59	<input type="checkbox"/>	Subcontractor and DBE Payment Reporting	April 2, 2018	
80391	60	<input type="checkbox"/>	Subcontractor Mobilization Payments	Nov. 2, 2017	April 1, 2019
* 80435	61	<input type="checkbox"/>	Surface Testing of Pavements – IRI	Jan. 1, 2021	
80298	62	<input type="checkbox"/>	Temporary Pavement Marking	April 1, 2012	April 1, 2017
80409	63	<input type="checkbox"/>	Traffic Control Devices - Cones	Jan. 1, 2019	
80410	64	<input type="checkbox"/>	Traffic Spotters	Jan. 1, 2019	
20338	65	<input type="checkbox"/>	Training Special Provisions	Oct. 15, 1975	
80318	66	<input type="checkbox"/>	Traversable Pipe Grate for Concrete End Sections	Jan. 1, 2013	Jan. 1, 2018
80429	67	<input type="checkbox"/>	Ultra-Thin Bonded Wearing Course	April 1, 2020	
80288	68	<input type="checkbox"/>	Warm Mix Asphalt	Jan. 1, 2012	April 1, 2016
80302	69	<input type="checkbox"/>	Weekly DBE Trucking Reports	June 2, 2012	April 2, 2015
80414	70	<input type="checkbox"/>	Wood Fence Sight Screen	Aug. 1, 2019	April 1, 2020
80427	71	<input type="checkbox"/>	Work Zone Traffic Control Devices	Mar. 2, 2020	
80071	72	<input type="checkbox"/>	Working Days	Jan. 1, 2002	

The following special provisions are in the 2021 Supplemental Specifications and Recurring Special Provisions.

<u>File Name</u>	<u>Special Provision Title</u>	<u>New Location(s)</u>	<u>Effective</u>	<u>Revised</u>
80277	Concrete Mix Design – Department Provided	Check Sheet #37	Jan. 1, 2012	April 1, 2016
80405	Elastomeric Bearings	Article 1083.01	Jan. 1, 2019	
80388	Equipment Parking and Storage	Article 701.11	Nov. 1, 2017	
80165	Moisture Cured Urethane Paint System	Article 1008.06	Nov. 1, 2006	Jan. 1, 2010
80349	Pavement Marking Blackout Tape	Articles 701.04, 701.19(f), 701.20(j) and 1095.06	Nov. 1, 2014	April 1, 2016
80371	Pavement Marking Removal	Articles 783.02-783.04, 783.06 and 1101.13	July 1, 2016	
80389	Portland Cement Concrete	Article 1020.04 Table 1 and Note 4	Nov. 1, 2017	
80403	Traffic Barrier Terminal, Type 1 Special	Articles 631.04 and 631.12	Nov. 1, 2018	

The following special provisions have been deleted from use.

<u>File Name</u>	<u>Special Provision Title</u>	<u>Effective</u>	<u>Revised</u>
80317	Surface Testing of Hot-Mix Asphalt Overlays	Jan. 1, 2013	Aug. 1, 2019

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


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



# Illinois Department of Transportation

## Memorandum

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To: Regional Engineers  
From: Jack A. Elston   
Subject: Special Provision for Compensable Delay Costs  
Date: January 11, 2019

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This special provision was developed to allow the department to pay for escalated material costs, escalated labor costs, extended project overhead, and extended traffic control when a contract delay meets certain criteria. It has been revised to remove the extended traffic control adjustment equations for completion date contracts and simply refer to Article 109.04

This special provision should be inserted into all contracts.

The districts should include the BDE Check Sheet marked with the applicable special provisions for the April 26, 2019 and subsequent lettings. The Project Coordination and Implementation Section will include a copy in the contract.

This special provision will be available on the transfer directory January 11, 2019.

80384m



## **COMPENSABLE DELAY COSTS (BDE)**

Effective: June 2, 2017

Revised: April 1, 2019

Revise Article 107.40(b) of the Standard Specifications to read:

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

- (1) Minor Delay. A minor delay occurs when the work in conflict with the utility in an unanticipated location is completely stopped for more than two hours, but not to exceed two weeks.
- (2) Major Delay. A major delay occurs when the work in conflict with the utility in an unanticipated location is completely stopped for more than two weeks.
- (3) Reduced Rate of Production Delay. A reduced rate of production delay occurs when the rate of production on the work in conflict with the utility in an unanticipated location decreases by more than 25 percent and lasts longer than seven calendar days.”

Revise Article 107.40(c) of the Standard Specifications to read:

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

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

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

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

Equipment will be the same as for a minor delay, except Contractor-owned equipment will be limited to two weeks plus the cost of move-out to either the

Contractor's yard or another job and the cost to re-mobilize, whichever is less. Rental equipment may be paid for longer than two weeks provided the Contractor presents adequate support to the Department (including lease agreement) to show retaining equipment on the job is the most economical course to follow and in the public interest.

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

Payment for escalated material costs, escalated labor costs, extended project overhead, and extended traffic control will be determined according to Article 109.13.”

Revise Article 108.04(b) of the Standard Specifications to read:

“(b) No working day will be charged under the following conditions.

- (1) When adverse weather prevents work on the controlling item.
- (2) When job conditions due to recent weather prevent work on the controlling item.
- (3) When conduct or lack of conduct by the Department or its consultants, representatives, officers, agents, or employees; delay by the Department in making the site available; or delay in furnishing any items required to be furnished to the Contractor by the Department prevents work on the controlling item.
- (4) When delays caused by utility or railroad adjustments prevent work on the controlling item.
- (5) When strikes, lock-outs, extraordinary delays in transportation, or inability to procure critical materials prevent work on the controlling item, as long as these delays are not due to any fault of the Contractor.
- (6) When any condition over which the Contractor has no control prevents work on the controlling item.”

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

“(f) Basis of Payment. After resolution of a claim in favor of the Contractor, any adjustment in time required for the work will be made according to Section 108. Any adjustment in the costs to be paid will be made for direct labor, direct materials, direct equipment, direct jobsite overhead, direct offsite overhead, and other direct costs allowed by the resolution. Adjustments in costs will not be made for interest charges, loss of anticipated profit, undocumented loss of efficiency, home office overhead and unabsorbed overhead

other than as allowed by Article 109.13, lost opportunity, preparation of claim expenses and other consequential indirect costs regardless of method of calculation.

The above Basis of Payment is an essential element of the contract and the claim cost recovery of the Contractor shall be so limited.”

Add the following to Section 109 of the Standard Specifications.

**“109.13 Payment for Contract Delay.** Compensation for escalated material costs, escalated labor costs, extended project overhead, and extended traffic control will be allowed when such costs result from a delay meeting the criteria in the following table.

Contract Type	Cause of Delay	Length of Delay
Working Days	Article 108.04(b)(3) or Article 108.04(b)(4)	No working days have been charged for two consecutive weeks.
Completion Date	Article 108.08(b)(1) or Article 108.08(b)(7)	The Contractor has been granted a minimum two week extension of contract time, according to Article 108.08.

Payment for each of the various costs will be according to the following.

- (a) Escalated Material and/or Labor Costs. When the delay causes work, which would have otherwise been completed, to be done after material and/or labor costs have increased, such increases will be paid. Payment for escalated material costs will be limited to the increased costs substantiated by documentation furnished by the Contractor. Payment for escalated labor costs will be limited to those items in Article 109.04(b)(1) and (2), except the 35 percent and 10 percent additives will not be permitted.
- (b) Extended Project Overhead. For the duration of the delay, payment for extended project overhead will be paid as follows.
  - (1) Direct Jobsite and Offsite Overhead. Payment for documented direct jobsite overhead and documented direct offsite overhead, including onsite supervisory and administrative personnel, will be allowed according to the following table.

Original Contract Amount	Supervisory and Administrative Personnel
Up to \$5,000,000	One Project Superintendent
Over \$ 5,000,000 - up to \$25,000,000	One Project Manager, One Project Superintendent or Engineer, and One Clerk
Over \$25,000,000 - up to \$50,000,000	One Project Manager, One Project Superintendent, One Engineer, and

	One Clerk
Over \$50,000,000	One Project Manager, Two Project Superintendents, One Engineer, and One Clerk

(2) Home Office and Unabsorbed Overhead. Payment for home office and unabsorbed overhead will be calculated as 8 percent of the total delay cost.

(c) Extended Traffic Control. Traffic control required for an extended period of time due to the delay will be paid for according to Article 109.04.

When an extended traffic control adjustment is paid under this provision, an adjusted unit price as provided for in Article 701.20(a) for increase or decrease in the value of work by more than ten percent will not be paid.

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

Regional Engineers

Jack A. Elston



Special Provision for Disposal Fees

July 27, 2018

This special provision was developed by the Bureau of Construction to provide a means to compensate a contractor for the administrative costs incurred for disposal fees associated with extra work.

This special provision should be inserted into all contracts.

The districts should include the BDE Check Sheet marked with the applicable special provisions for the November 9, 2018 and subsequent lettings. The Project Coordination and Implementation Section will include a copy in the contract.

This special provision will be available on the transfer directory July 27, 2018.

80402m

## **DISPOSAL FEES (BDE)**

Effective: November 1, 2018

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

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

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

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

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

80402



# Illinois Department of Transportation

## Memorandum

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To: Regional Engineers  
 From: Jack A. Elston *Jack A. Elston*  
 Subject: Special Provision for Emulsified Asphalts  
 Date: April 19, 2019

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This special provision was developed by the Central Bureau of Materials to update the Department's specifications in accordance with the AASHTO Standard Specifications for emulsified asphalts, including polymer modified emulsions (M 316). This special provision will change the nomenclature for the following emulsion types.

	New Acronym	(Former Acronym)
Polymer Modified	CRS-2P	(CRSP)
	HFRS-2P	(HFP)
	CQS-1hP	(CSS-1h Latex Modified)
Non-Tracking	NTEA	(SS-1vh)

This special provision should be inserted into contracts involving emulsified asphalts which are generally used in the following types of work.

- Section 302 Soil Modification
- Section 310 Lime Stabilized Soil Mixture
- Section 312 Stabilized Subbase (CAM II)
- Section 352 Soil Cement Base Course
- Section 403 Bituminous Surface Treatment (Class A-1, A-2, A-3)
- Section 404 Micro-Surfacing and Slurry Sealing
- Section 405 Cape Seal
- Section 406 HMA Binder and Surface Course
- Section 407 HMA Pavement (Full-Depth)
- Section 408 Incidental HMA Surfacing
- Section 443 Reflective Crack Control Treatment
- Section 582 HMA Surfacing on Bridge Decks
- Section 661 HMA Shoulder Curb
- Recurring Check Sheet #35 PCC Partial Depth HMA Patching

The districts should include the BDE Check Sheet marked with the applicable special provisions for the August 2, 2019 and subsequent lettings. The Project Coordination and Implementation Section will include a copy in the contract.



This special provision will be available on the transfer directory April 19, 2019.

80415m

## EMULSIFIED ASPHALTS (BDE)

Effective: August 1, 2019

Revise Article 1032.06 of the Standard Specifications to read:

**“1032.06 Emulsified Asphalts.** Emulsified asphalts will be accepted according to the current Bureau of Materials Policy Memorandum, “Emulsified Asphalt Acceptance Procedure”. These materials shall be homogeneous and shall show no separation of asphalt after thorough mixing, within 30 days after delivery, provided separation has not been caused by freezing. They shall coat the aggregate being used in the work to the satisfaction of the Engineer and shall be according to the following requirements.

- (a) Anionic Emulsified Asphalt. Anionic emulsified asphalts RS-1, RS-2, HFRS-2, SS-1h, and SS-1 shall be according to AASHTO M 140, except as follows.
  - (1) The cement mixing test will be waived when the emulsion is being used as a tack coat.
  - (2) The Solubility in Trichloroethylene test according to AASHTO T 44 may be run in lieu of Ash Content and shall meet a minimum of 97.5 percent.
- (b) Cationic Emulsified Asphalt. Cationic emulsified asphalts CRS-1, CRS-2, CSS-1h, and CSS-1 shall be according to AASHTO M 208, except as follows.
  - (1) The cement mixing test will be waived when the emulsion is being used as a tack coat.
  - (2) The Solubility in Trichloroethylene test according to AASHTO T 44 may be run in lieu of Ash Content and shall meet a minimum of 97.5 percent.
- (c) High Float Emulsion. High float emulsions HFE-90, HFE-150, and HFE-300 are medium setting and shall be according to the following table.

Test	HFE-90	HFE-150	HFE-300
Viscosity, Saybolt Furol, at 122 °F (50 °C), (AASHTO T 59), SFS <sup>1/</sup>	50 min.	50 min.	50 min.
Sieve Test, No. 20 (850 µm), retained on sieve, (AASHTO T 59), %	0.10 max.	0.10 max.	0.10 max.
Storage Stability Test, 1 day, (AASHTO T 59), %	1 max.	1 max.	1 max.
Coating Test (All Grades), (AASHTO T 59), 3 minutes	stone coated thoroughly		
Distillation Test, (AASHTO T 59): Residue from distillation test to 500 °F (260 °C), % Oil distillate by volume, %	65 min. 7 max.	65 min. 7 max.	65 min. 7 max.

Characteristics of residue from distillation test to 500 °F (260 °C): Penetration at 77 °F (25 °C), (AASHTO T 49), 100 g, 5 sec, dmm	90-150	150-300	300 min.
Float Test at 140 °F (60 °C), (AASHTO T 50), sec.	1200 min.	1200 min.	1200 min.

1/ The emulsion shall be pumpable.

- (d) Penetrating Emulsified Prime. Penetrating Emulsified Prime (PEP) shall be according to AASHTO T 59, except as follows.

Test	Result
Viscosity, Saybolt Furol, at 77 °F (25 °C), SFS	75 max.
Sieve test, retained on No. 20 (850 µm) sieve, %	0.10 max.
Distillation to 500 °F (260 °C) residue, %	38 min.
Oil distillate by volume, %	4 max.

The PEP shall be tested according to the current Bureau of Materials Illinois Laboratory Test Procedure (ILTP), "Sand Penetration Test of Penetrating Emulsified Prime (PEP)". The time of penetration shall be equal to or less than that of MC-30. The depth of penetration shall be equal to or greater than that of MC-30.

- (e) Delete this subparagraph.
- (f) Polymer Modified Emulsified Asphalt. Polymer modified emulsified asphalts, e.g. SS-1hP, CSS-1hP, CRS-2P (formerly CRSP), CQS-1hP (formerly CSS-1h Latex Modified) and HFRS-2P (formerly HFP) shall be according to AASHTO M 316, except as follows.
- (1) The cement mixing test will be waived when the polymer modified emulsion is being used as a tack coat.
  - (2) CQS-1hP (formerly CSS-1h Latex Modified) emulsion for micro-surfacing treatments shall use latex as the modifier.
  - (3) Upon examination of the storage stability test cylinder after standing undisturbed for 24 hours, the surface shall show minimal to no white, milky colored substance and shall be a homogenous brown color throughout.
  - (4) The distillation for all polymer modified emulsions shall be performed according to AASHTO T 59, except the temperature shall be  $374 \pm 9$  °F ( $190 \pm 5$  °C) to be held for a period of 15 minutes and measured using an ASTM 16F (16C) thermometer.
  - (5) The specified temperature for the Elastic Recovery test for all polymer modified emulsions shall be  $50.0 \pm 1.0$  °F ( $10.0 \pm 0.5$  °C).

(6) The Solubility in Trichloroethylene test according to AASHTO T 44 may be run in lieu of Ash Content and shall meet a minimum of 97.5 percent.

(g) Non-Tracking Emulsified Asphalt. Non-tracking emulsified asphalt NTEA (formerly SS-1vh) shall be according to the following.

Test	Requirement
Saybolt Viscosity at 77 °F (25 °C), (AASHTO T 59), SFS	20-100
Storage Stability Test, 24 hr, (AASHTO T 59), %	1 max.
Residue by Distillation, 500 ± 10 °F (260 ± 5 °C), or Residue by Evaporation, 325 ± 5 °F (163 ± 3 °C), (AASHTO T 59), %	50 min.
Sieve Test, No. 20 (850 µm), (AASHTO T 59), %	0.3 max.
Tests on Residue from Evaporation	
Penetration at 77 °F (25 °C), 100 g, 5 sec, (AASHTO T 49), dmm	40 max.
Softening Point, (AASHTO T 53), °F (°C)	135 (57) min.
Ash Content, (AASHTO T 111), % <sup>1/</sup>	1 max.

1/ The Solubility in Trichloroethylene test according to AASHTO T 44 may be run in lieu of Ash Content and shall meet a minimum of 97.5 percent

The different grades are, in general, used for the following.


Grade	Use
SS-1, SS-1h, RS-1, RS-2, CSS-1, CRS-1, CRS-2, CSS-1h, HFE-90, SS-1hP, CSS-1hP, NTEA (formerly SS-1vh)	Tack Coat
PEP	Prime Coat
RS-2, HFE-90, HFE-150, HFE-300, CRS-2P (formerly CRSP), HFRS-2P (formerly HFP), CRS-2, HFRS-2	Bituminous Surface Treatment
CQS-1hP (formerly CSS-1h Latex Modified)	Micro-Surfacing Slurry Sealing Cape Seal"



# Illinois Department of Transportation

## Memorandum

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To: Regional Engineers  
From: Jack A. Elston   
Subject: Special Provision for Grooving for Recessed Pavement  
Markings  
Date: July 24, 2020

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This special provision was developed by the Bureau of Operations to create a statewide specification for installing a pavement groove for recessed pavement markings that provides for improved durability of pavement marking materials. It has been revised to allow preformed plastic pavement markings to be installed according to the manufacturer recommendations.

This special provision should be inserted into contracts where the grooving of pavement marking materials has been specified.

The districts should include the BDE Check Sheet marked with the applicable special provisions for the November 6, 2020 and subsequent lettings. The Project Coordination and Implementation Section will include a copy in the contract.

This special provision will be available on the transfer directory July 24, 2020.

80304m

## **GROOVING FOR RECESSED PAVEMENT MARKINGS (BDE)**

Effective: November 1, 2012

Revised: November 1, 2020

Description. This work shall consist of grooving the pavement surface in preparation for the application of recessed pavement markings.

Equipment. Equipment shall be according to the following.

- (a) Preformed Plastic Pavement Marking Installations. The grooving equipment shall have a free-floating saw blade cutting head equipped with gang-stacked diamond saw blades. The diamond saw blades shall be of uniform wear and shall produce a smooth textured surface. Any ridges in the groove shall have a maximum height of 15 mils (0.38 mm).
- (b) Paint, Epoxy, Polyurea, Modified Urethane and Thermoplastic Pavement Marking Installations. The grooving equipment shall be equipped with either a free-floating saw blade cutting head or a free-floating grinder cutting head configuration with diamond or carbide tipped cutters and shall produce an irregular textured surface.

### CONSTRUCTION REQUIREMENTS

General. The Contractor shall supply the Engineer with a copy of the pavement marking material manufacturer's recommendations for constructing a groove.

Pavement Grooving Methods. The grooves for recessed pavement markings shall be constructed using the following methods.

- (a) Wet Cutting Head Operation. When water is required or used to cool the cutting head, the groove shall be flushed with high pressure water immediately following the cut to avoid build up and hardening of slurry in the groove. The pavement surface shall be allowed to dry for a minimum of 24 hours prior to the final cleaning of the groove and application of the pavement marking material.
- (b) Dry Cutting Head Operation. When used on HMA pavements, the groove shall be vacuumed or cleaned by blasting with high-pressure air to remove loose aggregate, debris, and dust generated during the cutting operation. When used on PCC pavements, the groove shall be flushed with high pressure water or shot blasted to remove any PCC particles that may have become destabilized during the grooving process. If high pressure water is used, the pavement surface shall be allowed to dry for a minimum of 24 hours prior to the final cleaning of the groove and application of the pavement marking material.

Pavement Grooving. Grooving shall not cause ravels, aggregate fractures, spalling or disturbance of the joints to the underlying surface of the pavement. Grooves shall be cut into the pavement prior to the application of the pavement marking material. Grooves shall be cut such

that the width is 1 in. (25 mm) greater than the width of the pavement marking line as specified on the plans. Grooves for letters and symbols shall be cut in a square or rectangular shape so that the entire marking will fit within the limits of the grooved area. The position of the edge of the grooves shall be a minimum of 2 in. (50 mm) from the edge of all longitudinal joints. The depth of the groove shall not be less than the manufacturer's recommendations for the pavement marking material specified, and according to the following.

- (a) Preformed Plastic and Thermoplastic Pavement Markings. Grooving shall be to a minimum depth of 110 mils (2.79 mm) and a maximum depth of 200 mils (5.08 mm).
- (b) Paint, Epoxy, Polyurea, and Modified Urethane Pavement Markings. Grooving shall be to a minimum depth of 40 mils (1.02 mm) and a maximum depth of 80 mils (2.03 mm).

The cutting head shall be operated at the appropriate speed in order to prevent undulation of the cutting head and grooving at an inconsistent depth.

For new HMA pavements, grooves shall not be installed within 10 days of the placement of the final course of pavement.

Final Cleaning. Immediately prior to the application of the pavement marking material or primer sealer, the groove shall be cleaned with high-pressure air blast.

Method of Measurement. Grooving for lines will be measured for payment in place, in feet (meters).

Grooving for letters and symbols will be measured in square feet (square meters).

Basis of Payment. This work will be paid for at the contract unit price per foot (meter) for GROOVING FOR RECESSED PAVEMENT MARKING of the groove width specified, and per square foot (square meter) for GROOVING FOR RECESSED PAVEMENT MARKING, LETTERS AND SYMBOLS.

The following shall only apply when preformed plastic pavement markings are to be recessed:

Add the following paragraph after the first paragraph of Article 780.07 of the Standard Specifications.

“Recessed markings in grooving shall be capable of being applied in a grooved slot on new and existing portland cement concrete and HMA surfaces, by means of a pressure-sensitive, precoated adhesive, or liquid contact cement which shall be applied at the time of installation. A primer sealer shall be applied with a roller and shall cover and seal the entire bottom of the groove. The primer sealer shall be recommended by the manufacturer of the pavement marking material and shall be compatible with the material being used. The Contractor shall install the markings in the groove as soon as possible after the primer sealer cures according to the manufacturer's recommendations.”

80304






# Illinois Department of Transportation

## Memorandum

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To: Regional Engineers  
From: Jack A. Elston   
Subject: Special Provision for Hot-Mix Asphalt – Binder and Surface Course  
Date: July 26, 2019

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This special provision was developed to create a statewide specification for HMA mixtures IL-9.5FG and SMA 9.5; eliminate the use of leveling binder; and standardize the HMA pay items. This special provision also incorporates the BDE special provisions “Hot-Mix Asphalt - Density Testing of Longitudinal Joints” and “Hot-Mix Asphalt - Oscillatory Roller”.

This special provision should be inserted into all HMA contracts.

The districts should include the BDE Check Sheet marked with the applicable special provisions for the November 8, 2019 and subsequent lettings. The Project Coordination and Implementation Section will include a copy in the contract.

This special provision will be available on the transfer directory July 26, 2019.

80416m

**HOT-MIX ASPHALT – BINDER AND SURFACE COURSE (BDE)**

Effective: July 2, 2019  
 Revised: November 1, 2019

Description. This work shall consist of constructing a hot-mix asphalt (HMA) binder and/or surface course on a prepared base. Work shall be according to Sections 406 and 1030 of the Standard Specifications, except as modified herein.

Materials. Add the following after the second paragraph of Article 1003.03(c):

“For mixture IL-9.5FG, at least 67 percent of the required fine aggregate fraction shall consist of either stone sand, slag sand, steel slag sand, or combinations thereof meeting FA 20 gradation.”

Revise Article 1004.03(c) to read:

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

Use	Size/Application	Gradation No.
Class A-1, A-2, & A-3	3/8 in. (10 mm) Seal	CA 16 or CA 20
Class A-1	1/2 in. (13 mm) Seal	CA 15
Class A-2 & A-3	Cover Coat	CA 14
HMA High ESAL	IL-19.0	CA 11 <sup>1/</sup>
	SMA 12.5 <sup>2/</sup>	CA 13, CA 14, or CA 16
	SMA 9.5 <sup>2/</sup>	CA 13 or CA 16 <sup>3/</sup>
	IL-9.5	CA 16
	IL-9.5FG	CA 16
HMA Low ESAL	IL-19.0L	CA 11 <sup>1/</sup>
	IL-9.5L	CA 16

1/ CA 16 or CA 13 may be blended with the CA 11.

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/ The specified coarse aggregate gradations may be blended.”

HMA Nomenclature. Revise the “High ESAL” portion of the table in Article 1030.01 to read:

“High ESAL	Binder Courses	IL-19.0, IL-9.5, IL-9.5FG, IL-4.75, SMA 12.5, SMA 9.5
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	Surface Courses	IL-9.5, IL-9.5FG, SMA 12.5, SMA 9.5”
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Mixture Design. Revise the table in Article 1030.04(a)(1) and add SMA 9.5 and IL-9.5FG mixture compositions as follows:

“HIGH ESAL, MIXTURE COMPOSITION (% PASSING) <sup>1/</sup>						
Sieve Size	SMA 12.5 <sup>5/</sup>		SMA 9.5 <sup>5/</sup>		IL-9.5FG	
	min.	max.	min.	max.	min.	max.
1 in. (25 mm)						
3/4 in. (19 mm)		100		100		
1/2 in. (12.5 mm)	90	99	95	100		100
3/8 in. (9.5 mm)	50	85	70	95	90	100
#4 4.75 mm)	20	40	30	50	60	75
#8 (2.36 mm)	16	24 <sup>4/</sup>	20	30	45	60
#16 (1.18 mm)				21	25	40
#30 (600 μm)				18	15	30
#50 (300 μm)				15	8	15
#100 (150 μm)					6	10
#200 (75 μm)	8.0	11.0 <sup>3/</sup>	8.0	11.0 <sup>3/</sup>	4.0	6.5
#635 (20 μm)		≤ 3.0		≤ 3.0		
Ratio of Dust/Asphalt Binder						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/ When establishing the adjusted job mix formula (AJMF) the percent passing the #8 (2.36 mm) sieve shall not be adjusted above 24 percent.
- 5/ When the bulk specific gravity (Gsb) of the component aggregates vary by more than 0.2, the blend gradations shall be based on volumetric percentage.”

Revise the table in Article 1030.04(b)(1) to read:

“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-9.5FG	IL-4.75 <sup>1/</sup>	
50	13.5	15.0	18.5	65 - 78 <sup>2/</sup>
70			65 – 75 <sup>3/</sup>	
90				

- 1/ Maximum draindown for IL-4.75 shall be 0.3 percent.
- 2/ VFA for IL-4.75 shall be 76-83 percent.
- 3/ VFA for IL-9.5FG shall be 65-78 percent.”

Revise the table in Article 1030.04(b)(3) to read:

“VOLUMETRIC REQUIREMENTS, SMA 12.5 <sup>1/</sup> and SMA 9.5 <sup>1/</sup>				
ESALs (million)	Ndesign	Design Air Voids Target, %	Voids in the Mineral Aggregate (VMA), % min.	Voids Filled with Asphalt (VFA), %
≤ 10	50	4.0	16.0	75 – 80
> 10	80	4.0	17.0	75 – 80

- 1/ Maximum draindown shall be 0.3 percent.”

Quality Control/Quality Assurance (QC/QA). Revise the third paragraph of Article 1030.05(d)(3) to read:

“If the Contractor and Engineer agree the nuclear density test method is not appropriate for the mixture, cores shall be taken at random locations determined according to the

QC/QA document "Determination of Random Density Test Site Locations". Core densities shall be determined using the Illinois Modified AASHTO T 166 or T 275 procedure."

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

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

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

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

Revise the second table in Article 1030.05(d)(4) and its notes to read:

"DENSITY CONTROL LIMITS			
Mixture Composition	Parameter	Individual Test (includes confined edges)	Unconfined Edge Joint Density, minimum
IL-4.75	Ndesign = 50	93.0 – 97.4 % <sup>1/</sup>	91.0%
IL-9.5FG	Ndesign = 50 - 90	93.0 – 97.4 %	91.0%
IL-9.5	Ndesign = 90	92.0 – 96.0 %	90.0%
IL-9.5, IL-9.5L,	Ndesign < 90	92.5 – 97.4 %	90.0%
IL-19.0	Ndesign = 90	93.0 – 96.0 %	90.0%
IL-19.0, IL-19.0L	Ndesign < 90	93.0 <sup>2/</sup> – 97.4 %	90.0%
SMA	Ndesign = 50 or 80	93.5 – 97.4 %	91.0%

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.”

Equipment. Add the following to Article 1101.01 of the Standard Specifications:

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

- (1) The minimum diameter of the drum(s) shall be 42 in. (1070 mm);
- (2) The minimum length of the drum(s) shall be 57 in. (1480 mm);
- (3) The minimum unit static force on the drum(s) shall be 125 lb/in. (22 N/m); and
- (4) The minimum force on the oscillatory drum shall be 18,000 lb (80 kN).”

### CONSTRUCTION REQUIREMENTS

Add the following to Article 406.03 of the Standard Specifications:

“(j) Oscillatory Roller ..... 1101.01”

Revise the third paragraph of Article 406.05(a) to read:

“All depressions of 1 in. (25 mm) or more in the surface of the existing pavement shall be filled with binder. At locations where heavy disintegration and deep spalling exists, the area shall be cleaned of all loose and unsound material, tacked, and filled with binder (hand method).”

Revise Article 406.05(c) to read.

“(c) Binder (Hand Method). Binder placed other than with a finishing machine will be designated as binder (hand method) and shall be compacted with a roller to the satisfaction of the Engineer. Hand tamping will be permitted when approved by the Engineer.”

Revise the special conditions for mixture IL-4.75 in Article 406.06(b)(2)e. to read:

“e. The mixture shall be overlaid within 5 days of being placed.”

Revise Article 406.06(d) to read:

“(d) Lift Thickness. The minimum compacted lift thickness for HMA binder and surface courses shall be as follows.

MINIMUM COMPACTED LIFT THICKNESS	
Mixture Composition	Thickness, in. (mm)
IL-4.75	3/4 (19) - over HMA surfaces <sup>1/</sup> 1 (25) - over PCC surfaces <sup>1/</sup>
IL-9.5FG	1 1/4 (32)
IL-9.5, IL-9.5L	1 1/2 (38)
SMA 9.5	1 1/2 (38)
SMA 12.5	2 (51)
IL-19.0, IL-19.0L	2 1/4 (57)

1/ The maximum compacted lift thickness for mixture IL-4.75 shall be 1 1/4 in. (32 mm).”

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

“TABLE 1 - MINIMUM ROLLER REQUIREMENTS FOR HMA				
	Breakdown Roller (one of the following)	Intermediate Roller	Final Roller (one or more of the following)	Density Requirement
Binder and Surface <sup>1/</sup>	V <sub>D</sub> , P <sup>3/</sup> , T <sub>B</sub> , 3W, O <sub>T</sub> , O <sub>B</sub>	P <sup>3/</sup> , O <sub>T</sub> , O <sub>B</sub>	V <sub>S</sub> , T <sub>B</sub> , T <sub>F</sub> , O <sub>T</sub>	As specified in Articles: 1030.05(d)(3), (d)(4), and (d)(7).
IL-4.75 and SMA <sup>4/ 5/</sup>	T <sub>B</sub> , 3W, O <sub>T</sub>	- -	T <sub>F</sub> , 3W, O <sub>T</sub>	
Bridge Decks <sup>2/</sup>	T <sub>B</sub>	- -	T <sub>F</sub>	As specified in Articles 582.05 and 582.06.

3/ A vibratory roller (V<sub>D</sub>) or oscillatory roller (O<sub>T</sub> or O<sub>B</sub>) may be used in lieu of the pneumatic-tired roller on mixtures containing polymer modified asphalt binder.”

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

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

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

Basis of Payment. Replace the second through the fifth paragraphs of Article 406.14 with the following:

“HMA binder and surface courses will be paid for at the contract unit price per ton (metric ton) for MIXTURE FOR CRACKS, JOINTS, AND FLANGEWAYS; HOT-MIX ASPHALT BINDER COURSE (HAND METHOD), of the Ndesign specified; HOT-MIX ASPHALT BINDER COURSE, of the mixture composition and Ndesign specified; HOT-MIX ASPHALT SURFACE COURSE, of the mixture composition, friction aggregate, and Ndesign specified; POLYMERIZED HOT-MIX ASPHALT BINDER COURSE (HAND METHOD), of the Ndesign specified; POLYMERIZED HOT-MIX ASPHALT BINDER COURSE, of the mixture composition and Ndesign specified; POLYMERIZED HOT-MIX ASPHALT SURFACE COURSE, of the mixture composition, friction aggregate, and Ndesign specified; POLYMERIZED HOT-MIX ASPHALT BINDER COURSE, STONE MATRIX ASPHALT, of the mixture composition and Ndesign specified; POLYMERIZED HOT-MIX ASPHALT SURFACE COURSE, STONE MATRIX ASPHALT, of the mixture composition, friction aggregate, and Ndesign specified.”

80416






# Illinois Department of Transportation

## Memorandum

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To: Regional Engineers  
From: Jack A. Elston   
Subject: Special Provision for Hot-Mix Asphalt – Longitudinal Joint Sealant  
Date: July 26, 2019

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This special provision was developed to improve the performance of centerline and lane-to-lane joints of full-depth HMA pavements and HMA overlays. It has been revised to include application rates for IL-9.5FG mixtures, cap the application rate for thicknesses greater than 2 1/4 inches and reduce application rate tolerances.

This special provision should be inserted into HMA pavement and HMA overlay contracts.

Designer Note: The designer must specify on the plans which lifts of the HMA will receive the sealant.

- Full-Depth HMA Pavements – under the surface lift and under the top binder lift
- Two-Lift Interstate HMA Overlays – under both the surface and binder lifts
- Two-Lift Non-interstate HMA Overlays – under the surface lift
- Single-Lift HMA Overlays – under the surface lift

The districts should include the BDE Check Sheet marked with the applicable special provisions for the November 8, 2019 and subsequent lettings. The Project Coordination and Implementation Section will include a copy in the contract.

This special provision will be available on the transfer directory July 26, 2019.

80398m

## HOT-MIX ASPHALT – LONGITUDINAL JOINT SEALANT (BDE)

Effective: August 1, 2018

Revised: November 1, 2019

Add the following to Article 406.02 of the Standard Specifications.

“(d) Longitudinal Joint Sealant (LJS) .....1032”

Add the following to Article 406.03 of the Standard Specifications.

“(k) Longitudinal Joint Sealant (LJS) Pressure Distributor (Note 2)

(l) Longitudinal Joint Sealant (LJS) Melter Kettle (Note 3)

Note 2. When a pressure distributor is used to apply the LJS, the distributor shall be equipped with a heating and recirculating system along with a functioning auger agitating system or vertical shaft mixer in the hauling tank to prevent localized overheating. The distributor shall be equipped with a guide or laser system to aid in proper placement of the LJS application.

Note 3. When a melter kettle is used to transport and apply the LJS, the melter kettle shall be an oil jacketed double-boiler with agitating and recirculating systems. Material from the kettle may be dispensed through a pressure feed wand with an applicator shoe or through a pressure feed wand into a hand-operated thermal push cart.”

Revise Article 406.06(g)(2) of the Standard Specifications to read:

“(2) Longitudinal Joints. Unless prohibited by stage construction, any HMA lift shall be complete before construction of the subsequent lift. The longitudinal joint in all lifts shall be at the centerline of the pavement if the roadway comprises two lanes in width, or at lane width if the roadway is more than two lanes in width.

When stage construction prohibits the total completion of a particular lift, the longitudinal joint in one lift shall be offset from the longitudinal joint in the preceding lift by not less than 3 in. (75 mm). The longitudinal joint in the surface course shall be at the centerline of the pavement if the roadway comprises two lanes in width, or at lane width if the roadway is more than two lanes in width.

A notched wedge longitudinal joint shall be used between successive passes of HMA binder course that has a difference in elevation of greater than 2 in. (50 mm) between lanes on pavement that is open to traffic.

The notched wedge longitudinal joint shall consist of a 1 to 1 1/2 in. (25 to 38 mm) vertical notch at the lane line, a 9 to 12 in. (230 to 300 mm) wide uniform taper sloped toward and extending into the open lane, and a second 1 to 1 1/2 in. (25 to 38 mm) vertical notch at the outside edge.

The notched wedge longitudinal joint shall be formed by the strike off device on the paver. The wedge shall then be compacted by the joint roller.

Tack coat shall be applied to the entire surface of the notched wedge joint immediately prior to placing the adjacent lift of binder. The material shall be uniformly applied at a rate of 0.05 to 0.1 gal/sq yd (0.2 to 0.5 L/sq m).

When the use of longitudinal joint sealant (LJS) is specified, the surface to which the LJS is applied shall be thoroughly cleaned and dry. The LJS may be placed before or after the tack coat. When placed after the tack coat, the tack shall be fully cured prior to placement of the LJS.

The LJS shall be applied in a single pass with a pressure distributor, melter kettle, or hand applied from a roll. At the time of installation, the pavement surface temperature and the ambient temperature shall be a minimum of 40 °F (4 °C) and rising.

The LJS shall be applied at a width of 18 in. (450 mm) ± 1 1/2 in. (38 mm) and centered ± 2 in. (± 50 mm) under the joint of the next HMA lift to be constructed. If the LJS flows more than 2 in. (50 mm) from the initial placement width, LJS placement shall stop and remedial action shall be taken.

When starting another run of LJS placement, suitable release paper shall be placed over the previous application of LJS to prevent doubling up of thickness of LJS.

The application rate of LJS shall be according to the following.

LJS Application Table			
Overlay Thickness in. (mm)	Coarse Graded Application Rate <sup>1/</sup> (IL-19.0, IL-19.0L, IL-9.5, IL-9.5L, IL-4.75) lb/ft (kg/m)	Fine Graded Application Rate <sup>1/</sup> lb/ft (kg/m)	SMA Mixtures <sup>1/2/</sup>
3/4 (19)	0.88 (1.31)		
1 (25)	1.15 (1.71)		
1 1/4 (32)	1.31 (1.95)	0.88 (1.31)	
1 1/2 (38)	1.47 (2.19)	0.95 (1.42)	1.26 (1.88)
1 3/4 (44)	1.63 (2.43)	1.03 (1.54)	1.38 (2.06)
2 (50)	1.80 (2.68)	1.11 (1.65)	1.51 (2.25)
≥ 2 1/4 (60)	1.96 (2.92)		

1/ The application rate has a surface demand for liquid included within it. The thickness of the LJS may taper from the center of the application to a lesser thickness on the edge of the application, provided the correct width and application rate are maintained.

2/ If the joint is between SMA and either Coarse Graded or Fine Graded, the SMA rate shall be used.

The Contractor shall furnish to the Engineer a bill of lading for each tanker supplying material to the project. The application rate of LJS shall be verified within the first 1000 ft (300 m) of the day's placement and every 12,000 ft (3600 m) thereafter. A suitable paper or pan shall be placed at a random location in the path of the LJS. After application of the LJS, the paper or pan shall be picked up, weighed, and the application rate calculated. The tolerance between the application rate shown in the LJS Application Table and the calculated rate shall be  $\pm 10$  percent. The LJS shall be replaced in the area where the sample was taken.

A 1 qt (1 L) sample shall be taken from the pressure distributor or melting kettle at the jobsite once for each contract and sent to the Central Bureau of Materials.

The LJS shall be suitable for construction traffic to drive on without pickup or tracking of the LJS within 30 minutes of placement. If pickup or tracking occurs, LJS placement shall stop and damaged areas shall be repaired.

Prior to paving, the Contractor shall ensure the paver end plate and grade control device is adequately raised above the finished height of the LJS.

The LJS shall not flush to the final surface of the HMA pavement.”

Add the following paragraph after the second paragraph of Article 406.13(b) of the Standard Specifications.

“Application of longitudinal joint sealant (LJS) will be measured for payment in place in feet (meters).”

Add the following paragraph after the first paragraph of Article 406.14 of the Standard Specifications.

“Longitudinal joint sealant will be paid for at the contract unit price per foot (meter) for LONGITUDINAL JOINT SEALANT.”

Add the following to Section 1032 of the Standard Specifications.

**“1032.12 Longitudinal Joint Sealant (LJS).** Longitudinal joint sealant (LJS) will be accepted according to the current Bureau of Materials and Physical Research Policy Memorandum, “Performance Graded Asphalt Binder Acceptance Procedure” with the following exceptions: Article 3.1.9 and 3.4.1.4 of the policy memorandum will be excluded. The bituminous material used for the LJS shall be according to the following table. Elastomers shall be added to a base asphalt and shall be either a styrene-butadiene diblock or triblock copolymer without oil extension, or a styrene-butadiene rubber. Air blown asphalt, acid modification, or other modifiers will not be allowed. LJS in the form of pre-formed rollout banding may also be used.

Test	Test Requirement	Test Method
Dynamic shear @ 88°C (unaged), G*/sin δ, kPa	1.00 min.	AASHTO T 315
Creep stiffness @ -18°C (unaged), Stiffness (S), MPa m-value	300 max. 0.300 min.	AASHTO T 313
Ash, %	1.0 – 4.0	AASHTO T 111
Elastic Recovery, 100 mm elongation, cut immediately, 25°C, %	70 min.	ASTM D 6084 (Procedure A)
Separation of Polymer, Difference in °C of the softening point (ring and ball)	3 max.	ITP Separation of Polymer from Asphalt Binder”


80398



# Illinois Department of Transportation

## Memorandum

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To: Regional Engineers  
From: Jack A. Elston   
Subject: Special Provision for Portland Cement Concrete – Haul Time  
Date: April 17, 2020

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This special provision was developed by the Central Bureau of Materials to increase the maximum haul time of concrete transported in nonagitator trucks.

This special provision should be inserted into contracts requiring cast-in-place concrete.

The districts should include the BDE Check Sheet marked with the applicable special provisions for the July 31, 2020 and subsequent lettings. The Project Coordination and Implementation Section will include a copy in the contract.

This special provision will be available on the transfer directory April 17, 2020.

80430m

## PORTLAND CEMENT CONCRETE – HAUL TIME (BDE)

Effective: July 1, 2020

Revise Article 1020.11(a)(7) of the Standard Specifications to read:

“(7) Haul Time. Haul time shall begin when the delivery ticket is stamped. The delivery ticket shall be stamped no later than five minutes after the addition of the mixing water to the cement, or after the addition of the cement to the aggregate when the combined aggregates contain free moisture in excess of two percent by weight (mass). If more than one batch is required for charging a truck using a stationary mixer, the time of haul shall start with mixing of the first batch. Haul time shall end when the truck is emptied for incorporation of the concrete into the work. The maximum haul time shall be as follows.

Concrete Temperature at Point of Discharge, °F (°C)	Maximum Haul Time <sup>1/</sup> (minutes)	
	Truck Mixer or Truck Agitator	Nonagitator Truck
50 - 64 (10 - 17.5)	90	45
> 64 (> 17.5) - without retarder	60	30
> 64 (> 17.5) - with retarder	90	45

1/ To encourage start-up testing for mix adjustments at the plant, the first two trucks will be allowed an additional 15 minutes haul time whenever such testing is performed.

For a mixture which is not mixed on the jobsite, a delivery ticket shall be required for each load. The following information shall be recorded on each delivery ticket: (1) ticket number; (2) name of producer and plant location; (3) contract number; (4) name of Contractor; (5) stamped date and time batched; (6) truck number; (7) quantity batched; (8) amount of admixture(s) in the batch; (9) amount of water in the batch; and (10) Department mix design number.


For concrete mixed in jobsite stationary mixers, the above delivery ticket may be waived, but a method of verifying the haul time shall be established to the satisfaction of the Engineer.”



# Illinois Department of Transportation

## Memorandum

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To: Regional Engineers  
From: Jack A. Elston   
Subject: Special Provision for Portland Cement Concrete Pavement Patching  
Date: April 17, 2020

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This special provision was developed by the Central Bureau of Materials to allow Class PP-1 patches to be opened to traffic at the same opening strengths as the other Classes of PP concrete. It also updates rapid hardening cement in accordance with ASTM C 1600 without compromising the strength needs for Class PP-4 concrete.

This special provision should be inserted into contracts requiring Pavement Patching, Class A Patches, Class B Patches or Class C Patches.

The districts should include the BDE Check Sheet marked with the applicable special provisions for the July 31, 2020 and subsequent lettings. The Project Coordination and Implementation Section will include a copy in the contract.

This special provision will be available on the transfer directory April 17, 2020.

80431m



## **PORTLAND CEMENT CONCRETE PAVEMENT PATCHING (BDE)**

Effective: July 1, 2020

Revise Article 701.17(e)(3)b. of the Standard Specifications to read:

- “b. Strength Tests. For patches constructed with Class PP-1, PP-2, PP-3, PP-4, or PP-5 concrete, the pavement may be opened to traffic when test specimens have obtained a minimum flexural strength of 250 psi (1725 kPa) or a minimum compressive strength of 1600 psi (11,000 kPa) according to Article 1020.09. However, the concrete mixture shall obtain a minimum flexural strength of 600 psi (4150 kPa) or a minimum compressive strength of 3200 psi (22,100 kPa) in the time specified in Table 1 of Article 1020.04.

With the approval of the Engineer, concrete strength may be determined according to Illinois Modified AASHTO T 325.”

Revise Article 1001.01(d) of the Standard Specifications to read:

“(d) Rapid Hardening Cement. Rapid hardening cement shall be used according to Article 1020.04 or when approved by the Engineer. The cement shall be on the Department’s qualified product list, and shall be according to ASTM C 1600 in addition to the following.

- (1) The cement shall have a minimum final set of 10 minutes, according to Illinois Modified AASHTO T 131.
- (2) The cement shall have a minimum compressive strength of 2000 psi (13,800 kPa) at 3.0 hours, 3200 psi (22,100 kPa) at 6.0 hours, and 4000 psi (27,600 kPa) at 24.0 hours, according to Illinois Modified AASHTO T 106.
- (3) The cement shall have a maximum drying shrinkage of 0.07 percent at 28 days, according to Illinois Modified ASTM C 596.
- (4) The cement shall have a maximum expansion of 0.04 percent at 14 days, according to Illinois Modified ASTM C 1038.”

Revise the first paragraph of Article 1020.05(b)(5) of the Standard Specifications to read:


“(5) For Class PP-4 concrete, a high range water-reducing admixture shall be used in addition to the air-entraining admixture. The Contractor has the option to use a water-reducing admixture with the high range water-reducing admixture. An accelerator shall not be used. A mobile portland cement concrete plant shall be used to produce the patching mixture.”



# Illinois Department of Transportation

## Memorandum

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To: Regional Engineers  
From: Jack A. Elston   
Subject: Special Provision for Reclaimed Asphalt Pavement (RAP) and  
Reclaimed Asphalt Shingles (RAS)  
Date: January 8, 2021

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This special provision was developed to combine the two existing BDE special provisions, "Reclaimed Asphalt Pavement (RAP)" and "Reclaimed Asphalt Shingles (RAS)" into one. It has been revised to incorporate aspects of the District 1 special provision which is being retired.

This special provision should be inserted in to all HMA contracts, as well as contracts involving aggregate subgrade improvement, aggregate for temporary access and aggregate wedge shoulders, type B.

The districts should include the BDE Check Sheet marked with the applicable special provisions for the April 23, 2021 and subsequent lettings. The Project Coordination and Implementation Section will include a copy in the contract.

This special provision will be available on the transfer directory January 8, 2021.

80306m

## RECLAIMED ASPHALT PAVEMENT AND RECLAIMED ASPHALT SHINGLES (BDE)

Effective: November 1, 2012

Revised: January 2, 2021

Revise Section 1031 of the Standard Specifications to read:

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

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

- (a) Reclaimed Asphalt Pavement (RAP). RAP is the material produced by cold milling or crushing an existing hot-mix asphalt (HMA) pavement. The Contractor shall supply written documentation that the RAP originated from routes or airfields under federal, state, or local agency jurisdiction.
- (b) Reclaimed Asphalt Shingles (RAS). RAS is the material produced 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 by weight of RAS, as defined in the Bureau of Materials Policy Memorandum, "Reclaimed Asphalt Shingle (RAS) Sources". RAS shall come from a facility source on the Department's "Qualified Producer List of Certified Sources for Reclaimed Asphalt Shingles" where it shall be ground and processed to 100 percent passing the 3/8 in. (9.5 mm) sieve and 93 percent passing the #4 (4.75 mm) sieve based on a dry shake gradation. RAS shall be uniform in gradation and asphalt binder content and shall meet the testing requirements specified herein. In addition, RAS shall meet the following Type 1 or Type 2 requirements.
  - (1) Type 1. Type 1 RAS shall be processed, preconsumer asphalt shingles salvaged from the manufacture of residential asphalt roofing shingles.
  - (2) Type 2. Type 2 RAS shall be processed post-consumer shingles only, salvaged from residential, or four unit or less dwellings not subject to the National Emission Standards for Hazardous Air Pollutants (NESHAP).

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

- (a) RAP Stockpiles. The Contractor shall construct individual RAP stockpiles meeting one of the following definitions. Stockpiles shall be sufficiently separated to prevent intermingling at the base. Stockpiles shall be identified by signs indicating the type as listed below (i.e. "Homogeneous Surface").

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

- (1) Fractionated RAP (FRAP). FRAP shall consist of RAP from Class I, HMA (High and Low ESAL) mixtures. The coarse aggregate in FRAP shall be crushed aggregate and may represent more than one aggregate type and/or quality but shall be at least C quality. FRAP shall be fractionated prior to testing by screening into a minimum of two size fractions with the separation occurring on or between the No. 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 mixture composition of the mix design.
- (2) Homogeneous. Homogeneous RAP stockpiles shall consist of RAP from Class I, HMA (High and Low ESAL) mixtures and represent: 1) the same aggregate quality, but shall be at least C quality; 2) the same type of crushed aggregate (either crushed natural aggregate, ACBF slag, or steel slag); 3) similar gradation; and 4) similar asphalt binder content. If approved by the Engineer, combined single pass surface/binder millings may be considered "homogeneous" with a quality rating dictated by the lowest coarse aggregate quality present in the mixture.
- (3) Conglomerate. Conglomerate RAP stockpiles shall consist of RAP from Class I, HMA (High and Low ESAL) mixtures. The coarse aggregate in this RAP shall be crushed aggregate and may represent more than one aggregate type and/or quality but shall be at least C quality. This RAP may have an inconsistent gradation and/or asphalt binder content prior to processing. Conglomerate RAP shall be processed prior to testing by crushing to where all RAP shall pass the 5/8 in. (16 mm) or smaller screen. Conglomerate RAP stockpiles shall not contain steel slag.
- (4) Conglomerate "D" Quality (Conglomerate DQ). Conglomerate DQ RAP stockpiles shall be according to Articles 1031.02(a)(1)-1031.02(a)(3), except they may also consist of RAP from HMA shoulders, bituminous stabilized subbases, or HMA (High or Low ESAL) 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.
- (5) Non-Quality. RAP stockpiles that do not meet the requirements of the stockpile categories listed above shall be classified as "Non-Quality".

RAP/FRAP containing contaminants, such as earth, brick, sand, concrete, sheet asphalt, non-bituminous surface treatment (i.e. high friction surface treatments), 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 not be intermingled. Each stockpile shall be signed indicating what type of RAS is present.

Unless otherwise specified by the Engineer, mechanically blending manufactured sand (FM 20 or FM 22) or fine FRAP up to an equal weight of RAS with the processed RAS will be permitted to improve workability. The sand shall be B quality or better from an

approved Aggregate Gradation Control System source. The sand shall be accounted for in the mix design and during HMA production.

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

Additional processed RAP/FRAP/RAS shall be stockpiled in a separate working pile, as designated in the QC Plan, and only added to the original stockpile after the test results for the working pile are found to meet the requirements specified in Articles 1031.03 and 1031.04.

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

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

(1) During Stockpiling. For testing during stockpiling, washed extraction samples shall be run at the minimum frequency of one sample per 500 tons (450 metric tons) for the first 2,000 tons (1,800 metric tons) and one sample per 2,000 tons (1,800 metric tons) thereafter. A minimum of five tests shall be required for stockpiles less than 4,000 tons (3,600 metric tons).

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

Each sample shall be split to obtain two equal samples of test sample size. One of the two test samples from the final split shall be labeled and stored for Department use. The Contractor shall perform a washed extraction on the other test sample according to Illinois Modified AASHTO T 164. The Engineer reserves the right to test any sample (split or Department-taken) to verify Contractor test results.

(b) RAS Testing. RAS or RAS blended with manufactured sand shall be sampled and tested during stockpiling according to the Bureau of Materials Policy Memorandum, "Reclaimed Asphalt Shingle (RAS) Source".

Samples shall be collected during stockpiling at the minimum frequency of one sample per 200 tons (180 metric tons) for the first 1,000 tons (900 metric tons) and one sample per 500 tons (450 metric tons) or a minimum of once per week, whichever is more frequent, thereafter. A minimum of five samples are required for stockpiles less than 1,000 tons (900 metric tons).

Before testing, each sample shall be split to obtain two test samples. One of the two test samples from the final split shall be labeled and stored for Department use. The

Contractor shall perform a washed extraction and test for unacceptable materials on the other test sample according to Illinois Modified AASHTO T 164. The Engineer reserves the right to test any sample (split or Department-taken) to verify Contractor test results.

The Contractor shall obtain and make available all of the test results from the start of the original stockpile.

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

- (a) Limits of Precision. The limits of precision between the Contractor's and the Department's split sample test results shall be according to the following.

Test Parameter	Limits of Precision		
	RAP	FRAP	RAS
% Passing			
1/2 in. (12.5 mm)	6.0 %	5.0 %	
# 4 (4.75 mm)	6.0 %	5.0 %	
# 8 (2.36 mm)	4.0 %	3.0 %	4.0 %
# 30 (600 µm)	3.0 %	2.0 %	4.0 %
# 200 (75 µm)	2.5 %	2.2 %	4.0 %
Asphalt Binder	0.4 %	0.3 %	3.0 %
G <sub>mm</sub>	0.035	0.030	

If the test results are outside the above limits of precision, the Department will immediately investigate.

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

Parameter	FRAP/Homogeneous/ Conglomerate
1 in. (25 mm)	
1/2 in. (12.5 mm)	± 8 %
# 4 (4.75 mm)	± 6 %
# 8 (2.36 mm)	± 5 %
# 16 (1.18 mm)	
# 30 (600 µm)	± 5 %
# 200 (75 µm)	± 2.0 %
Asphalt Binder	± 0.4 % <sup>1/</sup>
G <sub>mm</sub>	± 0.03 <sup>2/</sup>

1/ The tolerance for FRAP shall be ± 0.3 percent.

- 2/ For stockpile with slag or steel slag present as determined in the current Manual of Test Procedures Appendix B 21, "Determination of Aggregate Bulk (Dry) Specific Gravity (Gsb) of Reclaimed Asphalt Pavement (RAP) and Reclaimed Asphalt Shingles (RAS)".

If more than 20 percent of the test results for an individual parameter (individual sieves,  $G_{mm}$ , and/or asphalt binder content) are out of the above tolerances, the RAP/FRAP shall not be used in HMA unless the RAP/FRAP representing the failing tests is removed from the stockpile. All test data and acceptance ranges shall be sent to the Department for evaluation.

With the approval of the Engineer, the ignition oven may be substituted for solvent extractions according to the document "Calibration of the Ignition Oven for the Purpose of Characterizing Reclaimed Asphalt Pavement (RAP)".

- (c) Evaluation of RAS and RAS Blended with Manufactured Sand or Fine FRAP Test Results. All of the test results, with the exception of percent unacceptable materials, shall be compiled and averaged for asphalt binder content and gradation. Individual test results, when compared to the averages, will be accepted if within the tolerances listed below.

Parameter	RAS
# 8 (2.36 mm)	± 5 %
# 16 (1.18 mm)	± 5 %
# 30 (600 µm)	± 4 %
# 200 (75 µm)	± 2.5 %
Asphalt Binder Content	± 2.0 %

If more than 20 percent of the test results for an individual parameter (individual sieves and/or asphalt binder content) are out of the above tolerances, or if the unacceptable material exceeds 0.5 percent by weight of material retained on the No. 4 (4.75 mm) sieve, the RAS or RAS blend shall not be used in Department projects. All test data and acceptance ranges shall be sent to the Department for evaluation.

#### **1031.05 Quality Designation of Aggregate in RAP/FRAP.**

- (a) RAP. The aggregate quality of the RAP for homogeneous, conglomerate, and conglomerate DQ stockpiles shall be set by the lowest quality of coarse aggregate in the RAP stockpile and are designated as follows.
- (1) RAP from Class I, HMA (High ESAL), or (Low ESAL) IL-9.5L surface mixtures are designated as containing Class B quality coarse aggregate.
  - (2) RAP from Class I binder, HMA (High ESAL) binder, or (Low ESAL) IL-19.0L binder mixtures are designated as containing Class C quality coarse aggregate.

(3) RAP from BAM stabilized subbase and BAM shoulders are designated as containing Class D quality coarse aggregate.

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

If the quality is not known, the quality shall be determined as follows. Coarse and fine FRAP stockpiles containing plus No. 4 (4.75 mm) sieve coarse aggregate shall have a maximum tonnage of 5,000 tons (4,500 metric tons). The Contractor shall obtain a representative sample witnessed by the Engineer. The sample shall be a minimum of 50 lb (25 kg). The sample shall be extracted according to Illinois Modified AASHTO T 164 by a consultant laboratory prequalified by the Department for the specified testing. The consultant laboratory shall submit the test results along with the recovered aggregate sample to the District Office. Consultant laboratory services will be at no additional cost to the Department. The District will forward the sample to the Central Bureau of Materials Aggregate Lab for MicroDeval Testing, according to ITP 327. A maximum loss of 15.0 percent will be applied for all HMA applications.

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

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

(1) Coarse Aggregate Size. The coarse aggregate in all RAP shall be equal to or less than the nominal maximum size requirement for the HMA mixture to be produced.

(2) Steel Slag Stockpiles. Homogeneous RAP stockpiles containing steel slag will be approved for use in all HMA (High ESAL and Low ESAL) surface and binder mixture applications.

(3) Use in HMA Surface Mixtures (High and Low ESAL). RAP/FRAP stockpiles for use in HMA surface mixtures (High and Low ESAL) shall be FRAP or homogeneous in which the coarse aggregate is Class B quality or better. FRAP from conglomerate stockpiles shall be considered equivalent to limestone for frictional considerations. Known frictional contributions from plus No. 4 (4.75 mm) homogeneous FRAP stockpiles will be accounted for in meeting frictional requirements in the specified mixture.

(4) Use in HMA Binder Mixtures (High and Low ESAL), HMA Base Course, and HMA Base Course Widening. RAP/FRAP stockpiles for use in HMA binder mixtures (High and Low ESAL), HMA base course, and HMA base course widening shall be FRAP, homogeneous, or conglomerate, in which the coarse aggregate is Class C quality or better.

(5) Use in Shoulders and Subbase. RAP/FRAP stockpiles for use in HMA shoulders and stabilized subbase (HMA) shall be FRAP, homogeneous, or conglomerate.



- (6) When the Contractor chooses the RAP option, the percentage of RAP shall not exceed the amounts indicated in Article 1031.06(c)(1) below for a given Ndesign.
- (b) RAS. RAS meeting Type 1 or Type 2 requirements will be permitted in all HMA applications as specified herein.
- (c) RAP/FRAP and/or RAS Usage Limits. Type 1 or Type 2 RAS may be used alone or in conjunction with RAP or FRAP in HMA mixtures up to a maximum of 5.0 percent by weight of the total mix.
- (1) RAP/RAS. When RAP is used alone or RAP is used in conjunction with RAS, the percentage of virgin asphalt binder replacement (ABR) shall not exceed the amounts listed in the following table.

HMA Mixtures - RAP/RAS Maximum ABR % <sup>1/2/</sup>			
Ndesign	Binder	Surface	Polymer Modified Binder or Surface
30	30	30	10
50	25	15	10
70	15	10	10
90	10	10	10

1/ For Low ESAL HMA shoulder and stabilized subbase, the RAP/RAS ABR shall not exceed 50 percent of the mixture.

2/ When RAP/RAS ABR exceeds 20 percent, the high and low virgin asphalt binder grades shall each be reduced by one grade (i.e. 25 percent ABR would require a virgin asphalt binder grade of PG 64-22 to be reduced to a PG 58-28).

- (2) FRAP/RAS. When FRAP is used alone or FRAP is used in conjunction with RAS, the percentage of virgin asphalt binder replacement shall not exceed the amounts listed in the following table.

HMA Mixtures - FRAP/RAS Maximum ABR % <sup>1/2/</sup>			
Ndesign	Binder	Surface	Polymer Modified Binder or Surface
30	55	45	15
50	45	40	15
70	45	35	15
90	45	35	15
SMA	--	--	25

IL-4.75	--	--	35
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- 1/ For Low ESAL HMA shoulder and stabilized subbase, the FRAP/RAS ABR shall not exceed 50 percent of the mixture.
- 2/ When FRAP/RAS ABR exceeds 20 percent for all mixes, the high and low virgin asphalt binder grades shall each be reduced by one grade (i.e. 25 percent ABR would require a virgin asphalt binder grade of PG 64-22 to be reduced to a PG 58-28).

**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) RAP/FRAP and/or RAS. RAP/FRAP and/or RAS mix designs shall be submitted for verification. If additional RAP/FRAP and/or RAS stockpiles are tested and found that no more than 20 percent of the individual parameter test results, as defined in Article 1031.04, are outside of the control tolerances set for the original RAP/FRAP and/or RAS stockpile and HMA mix design, and meets all of the requirements herein, the additional RAP/FRAP and/or RAS stockpiles may be used in the original mix design at the percent previously verified.
- (b) RAS. Type 1 and Type 2 RAS are not interchangeable in a mix design.

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

**1031.08 HMA Production.** HMA production utilizing RAP/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 RAP/FRAP and/or RAS feed system to remove or reduce oversized material.

If the RAP/FRAP and/or RAS control tolerances or QC/QA test results require corrective action, the Contractor shall cease production of the mixture containing RAP/FRAP and/or RAS and either switch to the virgin aggregate design or submit a new mix design.

- (a) RAP/FRAP. The coarse aggregate in all RAP/FRAP used shall be equal to or less than the nominal maximum size requirement for the HMA mixture being produced.
- (b) RAS. RAS shall be incorporated into the HMA mixture either by a separate weight depletion system or by using the RAP weigh belt. Either feed system shall be interlocked with the aggregate feed or weigh system to maintain correct proportions for all rates of production and batch sizes. The portion of RAS shall be controlled accurately to within

± 0.5 percent of the amount of RAS utilized. When using the weight depletion system, flow indicators or sensing devices shall be provided and interlocked with the plant controls such that the mixture production is halted when RAS flow is interrupted.

(c) RAP/FRAP and/or RAS. HMA plants utilizing RAP/FRAP and/or RAS shall be capable of automatically recording and printing the following information.

(1) Dryer Drum Plants.

- a. Date, month, year, and time to the nearest minute for each print.
- b. HMA mix number assigned by the Department.
- c. Accumulated weight of dry aggregate (combined or individual) in tons (metric tons) to the nearest 0.1 ton (0.1 metric ton).
- d. Accumulated dry weight of RAP/FRAP/RAS in tons (metric tons) to the nearest 0.1 ton (0.1 metric ton).
- e. Accumulated mineral filler in revolutions, tons (metric tons), etc. to the nearest 0.1 unit.
- f. Accumulated asphalt binder in gallons (liters), tons (metric tons), etc. to the nearest 0.1 unit.
- g. Residual asphalt binder in the RAP/FRAP/RAS material as a percent of the total mix to the nearest 0.1 percent.
- h. Aggregate and RAP/FRAP/RAS moisture compensators in percent as set on the control panel. (Required when accumulated or individual aggregate and RAP/FRAP/RAS are recorded in a wet condition.)
- i. A positive dust control system shall be utilized when the combined contribution of reclaimed material passing the No. 200 sieve exceeds 1.5 percent.

(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. RAP/FRAP/RAS weight to the nearest pound (kilogram).

- f. Virgin asphalt binder weight to the nearest pound (kilogram).
- g. Residual asphalt binder in the RAP/FRAP/RAS material as a percent of the total mix to the nearest 0.1 percent.

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

**1031.09 RAP in Aggregate Applications.** RAP in aggregate applications shall be according to the Bureau of Materials Policy Memorandum, "Reclaimed Asphalt Pavement (RAP) for Aggregate Applications" and the following.

- (a) RAP in Aggregate Surface Course and Aggregate Wedge Shoulders, Type B. The use of RAP in aggregate surface course (temporary access entrances only) and aggregate wedge shoulders, Type B shall be as follows.
  - (1) 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.
  - (2) Gradation. One hundred percent of the RAP material shall pass the 1 1/2 in. (37.5 mm) sieve. The RAP material shall be reasonably well graded from coarse to fine. RAP material that is gap-graded or single sized will not be accepted.
- (b) RAP in Aggregate Subgrade Improvement (ASI). RAP in ASI shall be according to Article 1031.06, except "Conglomerate DQ" and "Non-Quality" may be used."



# Illinois Department of Transportation

## Memorandum

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To: Regional Engineers  
From: Jack A. Elston *Jack A. Elston*  
Subject: Special Provision for Removal and Disposal of Regulated Substances  
Date: September 27, 2019

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This special provision was developed to clarify the following in Section 669 of the Standard Specifications: contractor qualifications, pre-construction submittals, on-site monitoring, groundwater disposal, and final reports. As part of this effort, forms were also developed for the contractor's aid:

BDE 2730 – Regulated Substances Pre-Construction Plan  
BDE 2730A – Regulated Substances Pre-Construction Plan Addendum  
BDE 2732 – Regulated Substances Monitoring Daily Record  
BDE 2733 – Regulated Substances Final Construction Report

This special provision has been revised to further refine regulated substances monitoring and temporary staging, as well as to change pay items.

This special provision should be inserted into all construction contracts.

The districts should include the BDE Check Sheet marked with the applicable special provisions for the January 17, 2020 and subsequent lettings. The Project Coordination and Implementation Section will include a copy in the contract.

This special provision will be available on the transfer directory September 27, 2019.

80407m

## REMOVAL AND DISPOSAL OF REGULATED SUBSTANCES (BDE)

Effective: January 1, 2019

Revised: January 1, 2020

Revise Section 669 of the Standard Specifications to read:

### **“SECTION 669. REMOVAL AND DISPOSAL OF REGULATED SUBSTANCES**

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

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

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

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

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

- (a) Regulated Substances Monitoring. Qualification for environmental observation and field screening of regulated substances work and environmental observation of UST removal shall require either pre-qualification in Hazardous Waste by the Department or demonstration of acceptable project experience in remediation and operations for contaminated sites in accordance with applicable Federal, State, or local regulatory requirements using BDE 2730.

Qualification for each individual performing regulated substances monitoring shall require a minimum of one-year of experience in similar activities as those required for the project.

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

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

The Engineer will require up to 21 calendar days for review of the RSPCP. The review may involve rejection or revision and resubmittal; in which case, an additional 21 days will be required for each subsequent review. Work shall not commence until the RSPCP has been approved by the Engineer. After approval, the RSPCP shall be revised as necessary to reflect changed conditions in the field and documented using BDE 2730A "Regulated Substances Pre-Construction Plan (RSPCP) Addendum" and submitted to the Engineer for approval.

## **CONSTRUCTION REQUIREMENTS**

**669.04 Regulated Substances Monitoring.** Regulated substances monitoring includes environmental observation and field screening during regulated substances management activities at the contract specific work areas. As part of the regulated substances monitoring, the monitoring personnel shall perform and document the applicable duties listed on form BDE 2732 "Regulated Substances Monitoring Daily Record (RSMDR)".

- (a) Environmental Observation. Prior to beginning excavation, the Contractor shall mark the limits of the contract specific work areas. Once work begins, the monitoring personnel shall be present on-site continuously during the excavation and loading of material.
- (b) Field Screening. Field screening shall be performed during the excavation and loading of material from the contract specific work areas, except for material classified according to Article 669.05(b)(1) or 669.05(c) where field screening is not required.

Field screening shall be performed with either a photoionization detector (PID) (minimum 10.6eV lamp) or a flame ionization detector (FID), and other equipment as appropriate, to monitor for potential contaminants associated with regulated substances. The PID or FID shall be calibrated on-site, and background level readings taken and recorded daily, and as field and weather conditions change. Field screen readings on the PID or FID in excess of background levels indicates the potential presence of regulated substances requiring handling as a non-special waste, special waste, or hazardous waste. PID or FID readings may be used as the basis of increasing the limits of removal with the approval of the Engineer but shall in no case be used to decrease the limits.

**669.05 Regulated Substances Management and Disposal.** The management and disposal of soil and/or groundwater containing regulated substances shall be according to the following:

- (a) Soil Analytical Results Exceed Most Stringent MAC. When the soil analytical results indicate detected levels exceed the most stringent maximum allowable concentration (MAC) for chemical constituents in soil established pursuant to Subpart F of 35 Ill. Adm. Code 1100.605, the soil shall be managed as follows:
  - (1) When analytical results indicate inorganic chemical constituents exceed the most stringent MAC, but still considered within area background levels by the Engineer, the excavated soil can be utilized within the right-of-way as embankment or fill, when suitable. If the soils cannot be utilized within the right-of-way, they shall be managed and disposed of at a landfill as a non-special waste.
  - (2) When analytical results indicate inorganic chemical constituents exceed the most stringent MAC but do not exceed the MAC for a Metropolitan Statistical Area (MSA) County identified in 35 Ill. Admin. Code 742 Appendix A. Table G, the excavated soil can be utilized within the right-of-way as embankment or fill, when suitable, or managed and disposed of at a clean construction and demolition debris (CCDD) facility or an uncontaminated soil fill operation (USFO) within an MSA County provided the pH of the soil is within the range of 6.25 - 9.0, inclusive.
  - (3) When analytical results indicate chemical constituents exceed the most stringent MAC but do not exceed the MAC for an MSA County excluding Chicago, or the MAC within the Chicago corporate limits, the excavated soil can be utilized within the right-of-way as embankment or fill, when suitable, or managed and disposed of off-site at a CCDD facility or an USFO within an MSA County excluding Chicago or within the Chicago corporate limits provided the pH of the soil is within the range of 6.25 - 9.0, inclusive.
  - (4) When analytical results indicate chemical constituents exceed the most stringent MAC but do not exceed the MAC for an MSA County excluding Chicago, the excavated soil can be utilized within the right-of-way as embankment or fill, when suitable, or managed and disposed of off-site at a CCDD facility or an USFO within an MSA County excluding Chicago provided the pH of the soil is within the range of 6.25 - 9.0, inclusive.
  - (5) When the Engineer determines soil cannot be managed according to Articles 669.05(a)(1) through (a)(4) above and the materials do not contain special waste or hazardous waste, as determined by the Engineer, the soil shall be managed and disposed of at a landfill as a non-special waste.
  - (6) When analytical results indicate soil is hazardous by characteristic or listing pursuant to 35 Ill. Admin. Code 721, contains radiological constituents, or the Engineer otherwise determines the soil cannot be managed according to Articles 669.05(a)(1)



through (a)(5) above, the soil shall be managed and disposed of off-site as a special waste or hazardous waste as applicable.

(b) Soil Analytical Results Do Not Exceed Most Stringent MAC. When the soil analytical results indicate that detected levels do not exceed the most stringent MAC, the excavated soil can be utilized within the right-of-way as embankment or fill, when suitable, or managed and disposed of off-site according to Article 202.03. However, the excavated soil cannot be taken to a CCDD facility or an USFO for any of the following reasons.

(1) The pH of the soil is less than 6.25 or greater than 9.0.

(2) The soil exhibited PID or FID readings in excess of background levels.

(c) Soil Analytical Results Exceed Most Stringent MAC but Do Not Exceed Tiered Approach to Corrective Action Objectives (TACO) Residential. When the soil analytical results indicate that detected levels exceed the most stringent MAC but do not exceed TACO Tier 1 Soil Remediation Objectives for Residential Properties pursuant to 35 Ill. Admin. Code 742 Appendix B Table A, the excavated soil can be utilized within the right-of-way as embankment or fill, when suitable, or managed and disposed of off-site according to Article 202.03. However, the excavated soil cannot be taken to a CCDD facility or an USFO.

(d) Groundwater. When groundwater analytical results indicate the detected levels are above Appendix B, Table E of 35 Ill. Admin. Code 742, the most stringent Tier 1 Groundwater Remediation Objectives for Groundwater Component of the Groundwater Ingestion Route for Class 1 groundwater, the groundwater shall be managed off-site as a special waste or hazardous waste as applicable. Special waste groundwater shall be containerized and trucked to an off-site treatment facility, or may be discharged to a sanitary sewer or combined sewer when permitted by the local sewer authority. Groundwater discharged to a sanitary sewer or combined sewer shall be pre-treated to remove particulates and measured with a calibrated flow meter to comply with applicable discharge limits. A copy of the permit shall be provided to the Engineer prior to discharging groundwater to the sanitary sewer or combined sewer.

Groundwater encountered within trenches may be managed within the trench and allowed to infiltrate back into the ground. If the groundwater cannot be managed within the trench, it may be discharged to a sanitary sewer or combined sewer when permitted by the local sewer authority, or it shall be containerized and trucked to an off-site treatment facility as a special waste or hazardous waste. The Contractor is prohibited from discharging groundwater within the trench through a storm sewer. The Contractor shall install backfill plugs within the area of groundwater contamination.

One backfill plug shall be placed down gradient to the area of groundwater contamination. Backfill plugs shall be installed at intervals not to exceed 50 ft (15 m). Backfill plugs are to be 4 ft (1.2 m) long, measured parallel to the trench, full trench width and depth. Backfill plugs shall not have any fine aggregate bedding or backfill, but shall be entirely cohesive

soil or any class of concrete. The Contractor shall provide test data that the material has a permeability of less than  $10^{-7}$  cm/sec according to ASTM D 5084, Method A or per another test method approved by the Engineer.

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

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

The Contractor shall obtain all documentation including any permits and/or licenses required to transport the material containing regulated substances to the disposal facility. The Contractor shall coordinate with the Engineer on the completion of all documentation. The Contractor shall make all arrangements for collection and analysis of landfill acceptance testing. The Contractor shall coordinate waste disposal approvals with the disposal facility.

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

Transportation and disposal of material classified according to Article 669.05(a)(5) or 669.05(a)(6) shall be completed each day so that none of the material remains on-site by the close of business, except when temporary staging has been approved.

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

The Contractor shall select a landfill permitted for disposal of the contaminant within the State of Illinois. The Department will review and approve or reject the facility proposed by the Contractor to use as a landfill. The Contractor shall verify whether the selected disposal facility is compliant with those applicable standards as mandated by their permit and whether the disposal facility is presently, has previously been, or has never been, on the United States Environmental Protection Agency (U.S. EPA) National Priorities List or the Resource Conservation and Recovery Act (RCRA) List of Violating Facilities. The use of a Contractor selected landfill shall in no manner delay the construction schedule or alter the Contractor's responsibilities as set forth.

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

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

- (1) a potentially infectious medical waste;
- (2) a hazardous waste as defined in 35 Ill. Admin. Code 721;
- (3) an industrial process waste or pollution control waste that contains liquids, as determined using the paint filter test set forth in subdivision (3)(A) of subsection (m) of 35 Ill. Admin. Code 811.107;
- (4) a regulated asbestos-containing waste material, as defined under the National Emission Standards for Hazardous Air Pollutants in 40 CFR Part 61.141;
- (5) a material containing polychlorinated biphenyls (PCB's) regulated pursuant to 40 CFR Part 761;
- (6) a material subject to the waste analysis and recordkeeping requirements of 35 Ill. Admin. Code 728.107 under land disposal restrictions of 35 Ill. Admin. Code 728;
- (7) a waste material generated by processing recyclable metals by shredding and required to be managed as a special waste under Section 22.29 of the Environmental Protection Act; or
- (8) an empty portable device or container in which a special or hazardous waste has been stored, transported, treated, disposed of, or otherwise handled.

(b) Certification Information. All information used to determine the waste is not a special waste shall be attached to the certification. The information shall include but not be limited to:

- (1) the means by which the generator has determined the waste is not a hazardous waste;
- (2) the means by which the generator has determined the waste is not a liquid;
- (3) if the waste undergoes testing, the analytic results obtained from testing, signed and dated by the person responsible for completing the analysis;
- (4) if the waste does not undergo testing, an explanation as to why no testing is needed;

(5) a description of the process generating the waste; and

(6) relevant material safety data sheets.

**669.07 Temporary Staging.** Soil classified according to Articles 669.05(a)(2), (b)(1), or (c) may be temporarily staged at the Contractor's option. Soil classified according to Articles 669.05(a)(1), (a)(3), (a)(4), (a)(5), (a)(6), or (b)(2) shall be managed and disposed of without temporary staging to the greatest extent practicable. If circumstances beyond the Contractor's control require temporary staging of these latter materials, the Contractor shall request approval from the Engineer in writing.

Temporary staging shall be accomplished within the right-of-way and the Contractor's means and methods shall be described in the approved or amended RSPCP. Staging areas shall not be located within 200 feet (61 m) of a public or private water supply well; nor within 100 feet (30 m) of sensitive environmental receptor areas, including wetlands, rivers, streams, lakes, or designated habitat zones.

The method of staging shall consist of containerization or stockpiling as applicable for the type, classification, and physical state (i.e., liquid, solid, semisolid) of the material. Materials of different classifications shall be staged separately with no mixing or co-mingling.

When containers are used, the containers and their contents shall remain intact and inaccessible to unauthorized persons until the manner of disposal is determined. The Contractor shall be responsible for all activities associated with the storage containers including, but not limited to, the procurement, transport, and labeling of the containers. The Contractor shall not use a storage container if visual inspection of the container reveals the presence of free liquids or other substances that could cause the waste to be reclassified as a hazardous or special waste.

When stockpiles are used, they shall be covered with a minimum 20-mil plastic sheeting or tarps secured using weights or tie-downs. Perimeter berms or diversionary trenches shall be provided to contain and collect for disposal any water that drains from the soil. Stockpiles shall be managed to prevent or reduce potential dust generation.

When staging non-special waste, special waste, or hazardous waste, the following additional requirements shall apply:

- (a) **Non-Special Waste.** When stockpiling soil classified according to Article 669.05(a)(1) or 669.05(a)(5), an impermeable surface barrier between the materials and the ground surface shall be installed. The impermeable barrier shall consist of a minimum 20-mil plastic liner material and the surface of the stockpile area shall be clean and free of debris prior to placement of the liner. Measures shall also be taken to limit or discourage access to the staging area.
- (b) **Special Waste and Hazardous Waste.** Soil classified according to Article 669.05(a)(6) shall not be stockpiled but shall be containerized immediately upon generation in containers, tanks or containment buildings as defined by RCRA, Toxic Substances Control

Act (TSCA), and other applicable State or local regulations and requirements, including 35 Ill. Admin. Code Part 722, Standards Applicable to Generators of Hazardous Waste.

The staging area(s) shall be enclosed (by a fence or other structure) to restrict direct access to the area, and all required regulatory identification signs applicable to a staging area containing special waste or hazardous waste shall be deployed.

Storage containers shall be placed on an all-weather gravel-packed, asphalt, or concrete surface. Containers shall be in good condition and free of leaks, large dents, or severe rusting, which may compromise containment integrity. Containers must be constructed of, or lined with, materials that will not react or be otherwise incompatible with the hazardous or special waste contents. Containers used to store liquids shall not be filled more than 80 percent of the rated capacity. Incompatible wastes shall not be placed in the same container or comingled.

All containers shall be legibly labeled and marked using pre-printed labels and permanent marker in accordance with applicable regulations, clearly showing the date of waste generation, location and/or area of waste generation, and type of waste. The Contractor shall place these identifying markings on an exterior side surface of the container.

Storage containers shall be kept closed, and storage pads covered, except when access is needed by authorized personnel.

Special waste and hazardous waste shall be transported and disposed within 90 days from the date of generation.

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

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

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

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

The Contractor shall contact the Engineer and the OSFM's office at least 72 hours prior to removal to confirm the OSFM inspector's presence during the UST removal. Removal, transport, and disposal of the UST shall be according to the applicable portions of the latest revision of the "American Petroleum Institute (API) Recommended Practice 1604".

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

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

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

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

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

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

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

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

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

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

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

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

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

Regulated substances monitoring, including completion of form BDE 2732 for each day of work, will be paid for at the contract unit price per calendar day, or fraction thereof to the nearest 0.5 calendar day, for REGULATED SUBSTANCES MONITORING.

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

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

The transportation and disposal of soil and other materials from an excavation determined to be contaminated will be paid for at the contract unit price per cubic yard (cubic meter) for

**NON-SPECIAL WASTE DISPOSAL, SPECIAL WASTE DISPOSAL, or HAZARDOUS WASTE DISPOSAL.**

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

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

Payment for temporary staging of soil classified according to Articles 669.05(a)(1), (a)(3), (a)(4), (a)(5), (a)(6), or (b)(2) will be paid for according to Article 109.04. The Department will not be responsible for any additional costs incurred, if mismanagement of the staging area, storage containers, or their contents by the Contractor results in excess cost expenditure for disposal or other material management requirements.

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

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

When the waste material for disposal requires sampling for landfill disposal acceptance, the samples shall be analyzed for TCLP VOCs, SVOCs, RCRA metals, pH, ignitability, and paint filter test. The analysis will be paid for at the contract unit price per each for SOIL DISPOSAL ANALYSIS using EPA Methods 1311 (extraction), 8260B for VOCs, 8270C for SVOCs, 6010B and 7470A for RCRA metals, 9045C for pH, 1030 for ignitability, and 9095A for paint filter.

The work of preparing, submitting and administering a Regulated Substances Final Construction Report will be paid for at the contract lump sum price REGULATED SUBSTANCES FINAL CONSTRUCTION REPORT."






# Illinois Department of Transportation

## Memorandum

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To: Regional Engineers  
From: Jack A. Elston   
Subject: Special Provision for Silt Fence, Inlet Filters, Ground Stabilization and Riprap Filter Fabric  
Date: January 10, 2020

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This special provision was developed by the Central Bureau of Materials to update the physical properties of geotextile fabric for silt filter fence, ground stabilization, and riprap filter fabric in accordance with AASHTO specifications. It has been revised to include below grade inlet filters as well as above grade (fitted and non-fitted) inlet filters.

This special provision should be inserted into contracts requiring perimeter erosion barrier, inlet and pipe protection, inlet filters, ground stabilization, or filter fabric.

The districts should include the BDE Check Sheet marked with the applicable special provisions for the April 24, 2020 and subsequent lettings. The Project Coordination and Implementation Section will include a copy in the contract.

This special provision will be available on the transfer directory January 10, 2020.

80419m

**SILT FENCE, INLET FILTERS, GROUND STABILIZATION AND RIPRAP FILTER FABRIC (BDE)**

Effective: November 1, 2019

Revised: April 1, 2020

Revise Article 280.02(m) and add Article 280.02(n) so the Standard Specifications read:

“(m) Above Grade Inlet Filter (Fitted)..... 1081.15(j)  
 (n) Above Grade Inlet Filter (Non-Fitted).....1081.15(k)”

Revise the last sentence of the first paragraph in Article 280.04(c) of the Standard Specifications to read:

“The protection shall be constructed with hay or straw bales, silt filter fence, above grade inlet filters (fitted and non-fitted), or inlet filters.

Revise the first sentence of the second paragraph in Article 280.04(c) of the Standard Specifications to read:

“When above grade inlet filters (fitted and non-fitted) are specified, they shall be of sufficient size to completely span and enclose the inlet structure.”

Revise Article 1080.02 of the Standard Specifications to read:

**“1080.02 Geotextile Fabric.** The fabric for silt filter fence shall consist of woven fabric meeting the requirements of AASHTO M 288 for unsupported silt fence.

The fabric for ground stabilization shall consist of woven yarns or nonwoven filaments of polyolefins or polyesters. Woven fabrics shall be Class 2 and nonwoven fabrics shall be Class 1 according to AASHTO M 288.

The physical properties for silt fence and ground stabilization fabrics shall be according to the following.

PHYSICAL PROPERTIES			
	Silt Fence Woven <sup>1/</sup>	Ground Stabilization Woven <sup>2/</sup>	Ground Stabilization Nonwoven <sup>2/</sup>
Grab Strength, lb (N) <sup>3/</sup> ASTM D 4632	123 (550) MD 101 (450) XD	247 (1100) min. <sup>4/</sup>	202 (900) min. <sup>4/</sup>
Elongation/Grab Strain, % ASTM D 4632 <sup>4/</sup>	49 max.	49 max.	50 min.
Trapezoidal Tear Strength, lb (N) ASTM D 4533 <sup>4/</sup>	--	90 (400) min.	79 (350) min.

Puncture Strength, lb (N) ASTM D 6241 <sup>4/</sup>	--	494 (2200) min.	433 (1925) min.
Apparent Opening Size, Sieve No. (mm) ASTM D 4751 <sup>5/</sup>	30 (0.60) max.	40 (0.43) max.	40 (0.43) max.
Permittivity, sec <sup>-1</sup> ASTM D 4491	0.05 min.		
Ultraviolet Stability, % retained strength after 500 hours of exposure ASTM D 4355	70 min.	50 min.	50 min.

- 1/ NTPEP results or manufacturer’s certification to meet test requirements.
- 2/ NTPEP results to meet test requirements. Manufacturer shall have public release status and current reports on laboratory results in Test Data of NTPEP’s DataMine.
- 3/ MD = Machine direction. XD = Cross-machine direction.
- 4/ Values represent the minimum average roll value (MARV) in the weaker principle direction, MD or XD.
- 5/ Values represent the maximum average roll value.”

Revise Article 1080.03 of the Standard Specifications to read:

**“1080.03 Filter Fabric.** The filter fabric shall consist of woven yarns or nonwoven filaments of polyolefins or polyesters. Woven fabrics shall be Class 3 for riprap gradations RR 4 and RR 5, and Class 2 for RR 6 and RR 7 according to AASHTO M 288. Woven slit film geotextiles (i.e. geotextiles made from yarns of a flat, tape-like character) shall not be permitted. Nonwoven fabrics shall be Class 2 for riprap gradations RR 4 and RR 5, and Class 1 for RR 6 and RR 7 according to AASHTO M 288. After forming, the fabric shall be processed so that the yarns or filaments retain their relative positions with respect to each other. The fabric shall be new and undamaged.

The filter fabric shall be manufactured in widths of not less than 6 ft (2 m). Sheets of fabric may be sewn together with thread of a material meeting the chemical requirements given for the yarns or filaments to form fabric widths as required. The sheets of filter fabric shall be sewn together at the point of manufacture or another approved location.

The filter fabric shall be according to the following.

PHYSICAL PROPERTIES <sup>1/</sup>				
	Gradation Nos. RR 4 & RR 5		Gradation Nos. RR 6 & RR 7	
	Woven	Nonwoven	Woven	Nonwoven
Grab Strength, lb (N) ASTM D 4632 <sup>2/</sup>	180 (800) min.	157 (700) min.	247 (1100) min.	202 (900) min.
Elongation/Grab Strain, % ASTM D 4632 <sup>2/</sup>	49 max.	50 min.	49 max.	50 min.
Trapezoidal Tear Strength, lb (N) ASTM D 4533 <sup>2/</sup>	67 (300) min.	56 (250) min.	90 (400) min.	79 (350) min.
Puncture Strength, lb (N) ASTM D 6241 <sup>2/</sup>	370 (1650) min.	309 (1375) min.	494 (2200) min.	433 (1925) min.
Ultraviolet Stability, % retained strength after 500 hours of exposure - ASTM D 4355	50 min.			

1/ NTPEP results to meet test requirements. Manufacturer shall have public release status and current reports on laboratory results in Test Data of NTPEP's DataMine.

2/ Values represent the minimum average roll value (MARV) in the weaker principle direction [machine direction (MD) or cross-machine direction (XD)].

As determined by the Engineer, the filter fabric shall meet the requirements noted in the following after an onsite investigation of the soil to be protected.

Soil by Weight (Mass) Passing the No. 200 sieve (75 µm), %	Apparent Opening Size, Sieve No. (mm) - ASTM D 4751 <sup>1/</sup>	Permittivity, sec <sup>-1</sup> ASTM D 4491
49 max.	60 (0.25) max.	0.2 min.
50 min.	70 (0.22) max.	0.1 min.

1/ Values represent the maximum average roll value.”

Revise Article 1081.15(h)(3)a of the Standard Specifications to read:

“a. Inner Filter Fabric Bag. The inner filter fabric bag shall be constructed of woven yarns or nonwoven filaments made of polyolefins or polyesters with a minimum silt and debris capacity of 2.0 cu ft (0.06 cu m). Woven fabric shall be Class 3 and nonwoven fabric shall be Class 2 according to AASHTO M 288. The fabric bag shall be according to the following.

PHYSICAL PROPERTIES		
	Woven	Nonwoven
Grab Strength, lb (N) ASTM D 4632 <sup>1/</sup>	180 (800) min.	157 (700) min.
Elongation/Grab Strain, % ASTM D 4632 <sup>1/</sup>	49 max.	50 min.
Trapezoidal Tear Strength, lb (N) ASTM D 4533 <sup>1/</sup>	67 (300) min.	56 (250) min.
Puncture Strength, lb (N) ASTM D 6241 <sup>1/</sup>	370 (1650) min.	309 (1375) min.
Apparent Opening Size, Sieve No. (mm) ASTM D 4751 <sup>2/</sup>	60 (0.25) max.	
Permittivity, sec <sup>-1</sup> ASTM D 4491	2.0 min.	
Ultraviolet Stability, % retained strength after 500 hours of exposure – ASTM D 4355	70 min.	

1/ Values represent the minimum average roll value (MARV) in the weaker principle direction [machine direction (MD) or cross-machine direction (XD)].

2/ Values represent the maximum average roll value.”

Revise Article 1081.15(i)(1) of the Standard Specifications to read:

“(i) Urethane Foam/Geotextile. Urethane foam/geotextile shall be triangular shaped having a minimum height of 10 in. (250 mm) in the center with equal sides and a minimum 20 in. (500 mm) base. The triangular shaped inner material shall be a low density urethane foam. The outer geotextile fabric cover shall consist of woven yarns or nonwoven filaments made of polyolefins or polyesters placed around the inner material and shall extend beyond both sides of the triangle a minimum of 18 in. (450 mm). Woven filter fabric shall be Class 3 and nonwoven filter fabric shall be Class 2 according to AASHTO M 288.

(1) The geotextile shall meet the following properties.

PHYSICAL PROPERTIES		
	Woven	Nonwoven
Grab Strength, lb (N) ASTM D 4632 <sup>1/</sup>	180 (800) min.	157 (700) min.
Elongation/Grab Strain, % ASTM D 4632 <sup>1/</sup>	49 max.	50 min.
Trapezoidal Tear Strength, lb (N) ASTM D 4533 <sup>1/</sup>	67 (300) min.	56 (250) min.
Puncture Strength, lb (N) ASTM D 6241 <sup>1/</sup>	370 (1650) min.	309 (1375) min.

Apparent Opening Size, Sieve No. (mm) ASTM D 4751 <sup>2/</sup>	30 (0.60) max.
Permittivity, sec <sup>-1</sup> ASTM D 4491	2.0 min.
Ultraviolet Stability, % retained strength after 500 hours of exposure – ASTM D 4355	70 min.

1/ Values represent the minimum average roll value (MARV) in the weaker principle direction [machine direction (MD) or cross-machine direction (XD)].

2/ Values represent the maximum average roll value.”

Add the following to Article 1081.15(i) of the Standard Specifications.

“(3) Certification. The manufacturer shall furnish a certificate with each shipment of urethane foam/geotextile assemblies stating the amount of product furnished and that the material complies with these requirements.”

Revise the title and first sentence of Article 1081.15(j) of the Standards Specifications to read:

“(j) Above Grade Inlet Filters (Fitted). Above grade inlet filters (fitted) shall consist of a rigid polyethylene frame covered with a fitted geotextile filter fabric.”

Revise Article 1081.15(j)(2) of the Standard Specifications to read:

(2) Fitted Geotextile Filter Fabric. The fitted geotextile filter fabric shall consist of woven yarns or nonwoven filaments made of polyolefins or polyesters. Woven filter fabric shall be Class 3 and nonwoven filter fabric shall be Class 2 according to AASHTO M 288. The filter shall be fabricated to provide a direct fit to the frame. The top of the filter shall integrate a coarse screen with a minimum apparent opening size of 1/2 in. (13 mm) to allow large volumes of water to pass through in the event of heavy flows. The filter shall have integrated anti-buoyancy pockets capable of holding a minimum of 3.0 cu ft (0.08 cu m) of stabilization material. Each filter shall have a label with the following information sewn to or otherwise permanently adhered to the outside: manufacturer’s name, product name, and lot, model, or serial number. The fitted geotextile filter fabric shall be according to the table in Article 1081.15(h)(3)a above.”

Add Article 1081.15(k) to the Standard Specifications to read:

“(k) Above Grade Inlet Filters (Non-Fitted). Above grade inlet filters (non-fitted) shall consist of a geotextile fabric surrounding a metal frame. The frame shall consist of either a) a circular cage formed of welded wire mesh, or b) a collapsible aluminum frame, as described below.

(1) Frame Construction.


- a) Welded Wire Mesh Frame. The frame shall consist of 6 in. x 6 in. (150 mm x 150 mm) welded wire mesh formed of #10 gauge (3.42 mm) steel conforming to ASTM A 185. The mesh shall be 30 in. (750 mm) tall and formed into a 42 in. (1.05 m) minimum diameter cylinder.
  - b) Collapsible Aluminum Frame. The collapsible aluminum frame shall consist of grade 6036 aluminum. The frame shall have anchor lugs that attach it to the inlet grate, which shall resist movement from water and debris. The collapsible joints of the frame shall have a locking device to secure the vertical members in place, which shall prevent the frame from collapsing while under load from water and debris.
- (2) Geotextile Fabric. The geotextile fabric shall consist of woven yarns or nonwoven filaments made of polyolefins or polyesters. The woven filter fabric shall be a Class 3 and the nonwoven filter fabric shall be a Class 2 according to AASHTO M 288. The geotextile fabric shall be according to the table in Article 1081.15(h)(3)a above.
- (3) Geotechnical Fabric Attachment to the Frame.
- a) Welded Wire Mesh Frame. The woven or nonwoven geotextile fabric shall be wrapped 3 in. (75 mm) over the top member of a 6 in. x 6 in. (150 mm x 150 mm) welded wire mesh frame and secured with fastening rings constructed of wire conforming to ASTM A 641, A 809, A 370, and A 938 at 6 in. (150 mm) on center. The fastening rings shall penetrate both layers of geotextile and securely close around the steel mesh. The geotextile shall be secured to the sides of the welded wire mesh with fastening rings at a spacing of 1 per sq ft (11 per sq m) and securely close around a steel member.
  - b) Collapsible Aluminum Frame. The woven or nonwoven fabric shall be secured to the aluminum frame along the top and bottom of the frame perimeter with strips of aluminum secured to the perimeter member, such that the anchoring system provides a uniformly distributed stress throughout the geotechnical fabric.
- (4) Certification. The manufacturer shall furnish a certificate with each shipment of above grade inlet filter assemblies stating the amount of product furnished and that the material complies with these requirements.”



# Illinois Department of Transportation

## Memorandum

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To: Regional Engineers  
From: Jack A. Elston   
Subject: Special Provision for Traffic Control Devices - Cones  
Date: September 28, 2018

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This special provision was developed to provide clarification on the use of cones for channelizing traffic during nighttime operations and to allow the use of cones taller than 36 in. (900 mm). Highway Standards 701206, 701502, 701602, and 701901 have also been revised.

This special provision should be inserted into all contracts utilizing traffic control and protection.

The districts should include the BDE Check Sheet marked with the applicable special provisions for the January 18, 2019 and subsequent lettings. The Project Coordination and Implementation Section will include a copy in the contract.

This special provision will be available on the transfer directory September 28, 2018.

80409m



## **TRAFFIC CONTROL DEVICES - CONES (BDE)**

Effective: January 1, 2019

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

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

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

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

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

80409



# Illinois Department of Transportation

## Memorandum

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To: Regional Engineers  
From: Omer M. Osman *Osman, Omer*  
Subject: Special Provision for Warm Mix Asphalt  
Date: January 8, 2016

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This special provision was developed by the Bureau of Materials and Physical Research to implement Warm-Mix Asphalt technology as part of the Federal Highway Administration Every Day Counts Initiative. This special provision has been revised to fit with the 2016 Standard Specifications.

This special provision should be inserted in all Hot-Mix Asphalt contracts.

The districts should include the BDE Check Sheet marked with the applicable special provisions for the April 22, 2016 and subsequent lettings. The Project Development and Implementation Section will include a copy in the contract.

This special provision will be available on the transfer directory January 8, 2016.

80288m

## WARM MIX ASPHALT (BDE)

Effective: January 1, 2012

Revised: April 1, 2016

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.

"(11) Equipment for Warm Mix Technologies.

- a. Foaming. Metering equipment for foamed asphalt shall have an accuracy of  $\pm 2$  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.

**SECTION F**

Standard Details

DATE	REVISIONS

### QUICK REFERENCE TO TREE PROTECTION ZONE

#### Tree/Shrub Protection (above ground)

The contractor or permit holder shall be responsible for protecting all public trees and shrubs located on the public right-of-way. Existing trees/shrubs subject to construction activity shall be boxed, fenced or otherwise protected before any work is started. The trees/shrubs to be protected, the method of protection and the dimensions involved shall follow the guidelines of the City Arborist, or if special conditions warrant adjustment, be determined by the City Arborist in conjunction with the contractor or permit holder. Once assembled, no boxing, fencing or other protection device shall be removed without prior approval of the City Arborist or City Inspector, and there shall be no construction activity or material within the enclosure.

Shrubs and small trees shall be boxed or fenced in such a manner as to encompass the entire drip line area of the tree (Figure 1). In no case shall the enclosure be less than two (2) feet from the center line of the tree. Medium to large trees shall be boxed or fenced in a manner to encompass as much of the drip line area of the tree as possible as determined by property and right of way boundaries (Figure 2). In no case shall the protective device be closer than ten (10) feet from the center line of the tree except in those portions bordered by the public sidewalk or curb, in which case the protective device shall be offset one (1) foot wherever possible.

Tree Diameter	Distance of fencing from tree trunk *
Up to 2 inches	Min 2 feet to drip line
2.1 - 4 inches	Min 4 feet to drip line
4.1 - 9 inches	Min 6 feet to drip line
9.1 - 14 inches	Min 10 feet to drip line
14.1 - 19 inches	Min 12 feet to drip line
19.1 and greater	Min 15 feet to drip line

\*Minimum distances listed are required unless waived by City Arborist. If available space permits greater distances for tree protection, such as to drip line, are preferred but not required.

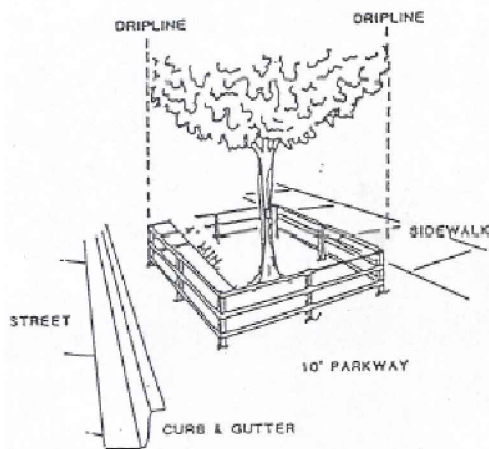


FIGURE 1 - SMALL TREES  
MINIMUM FENCING REQUIREMENTS

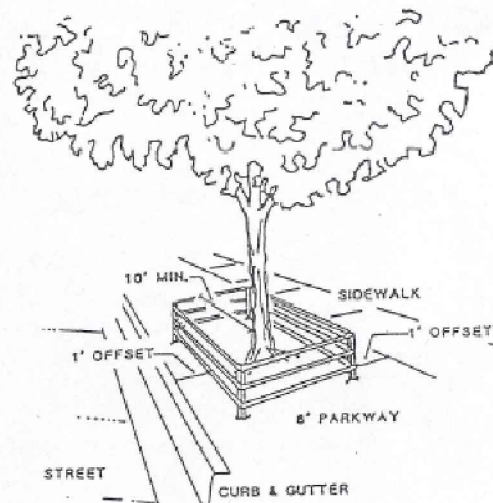
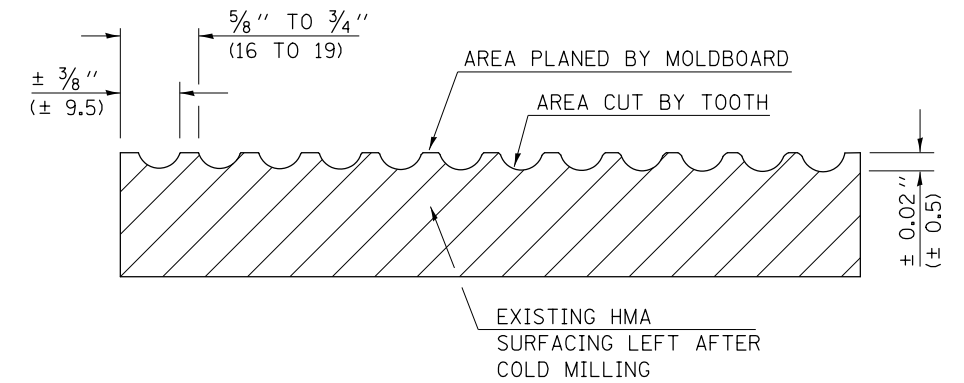
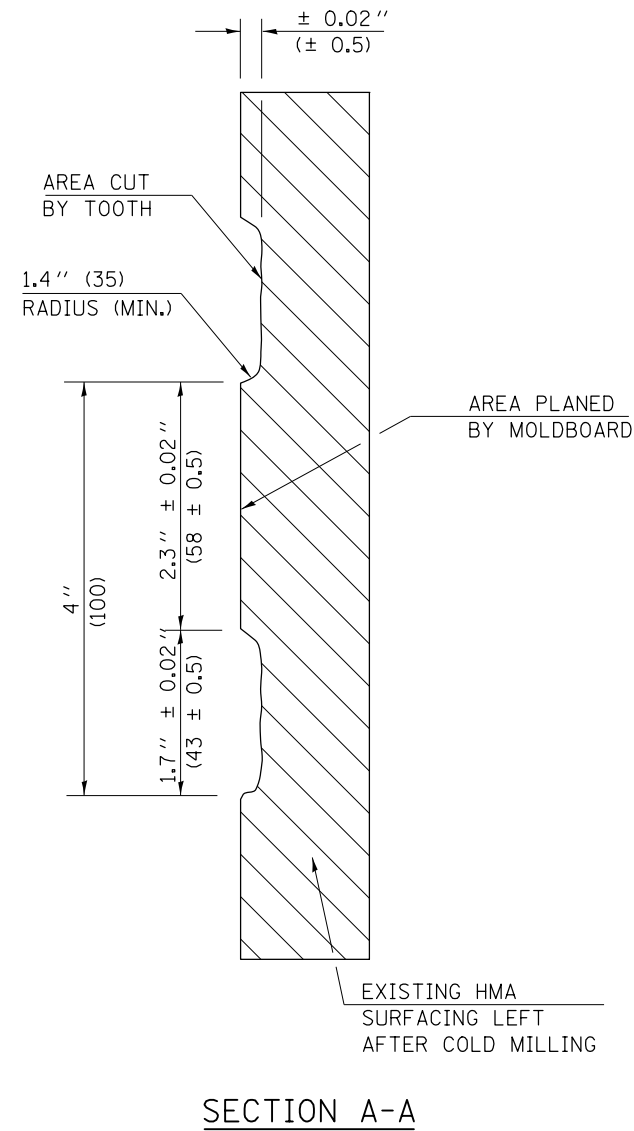
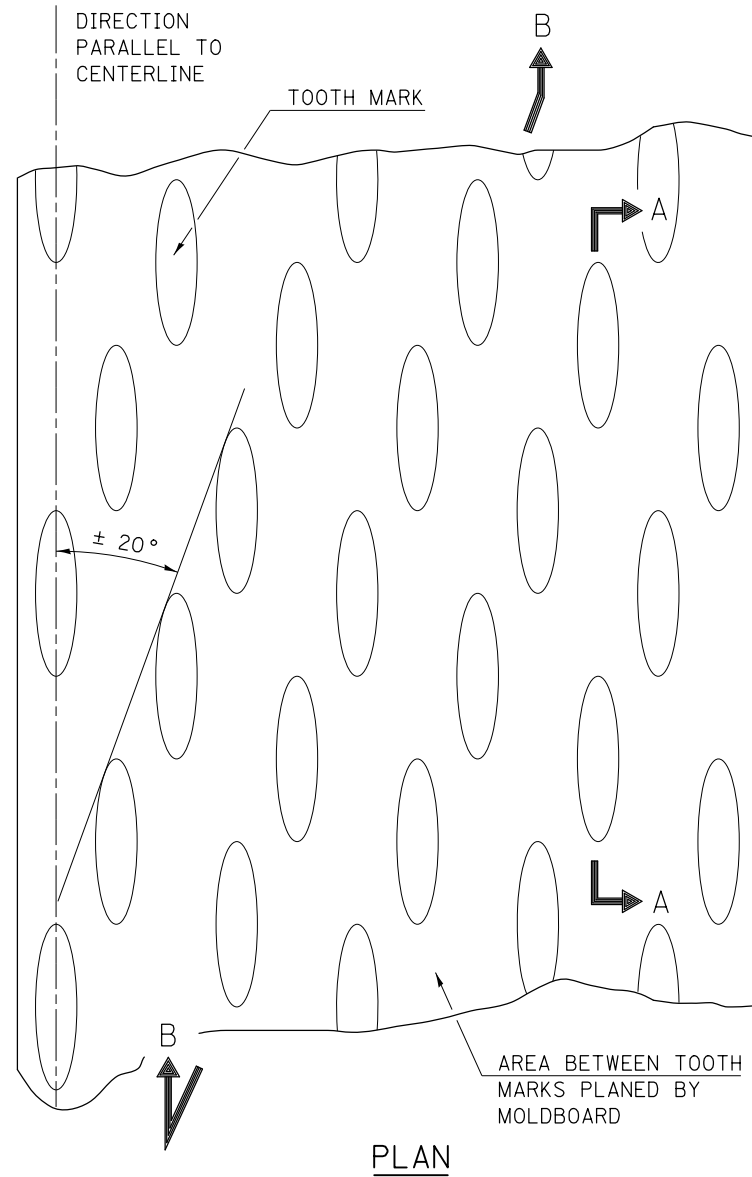


FIGURE 2 - MEDIUM TO LARGE TREES  
MINIMUM FENCING REQUIREMENTS

DETAIL ARB-A-1



**REQUIRED SURFACE TEXTURE**



**SECTION B-B PROJECTED PERPENDICULAR TO CENTERLINE**

**NOTES**

1. SURFACE CORRECTION SHALL CONSIST OF TWO PROCESSES: CUTTING WITH CARBIDE TEETH MOUNTED ON A ROTATING DRUM, AND PLANING WITH A MOLDBOARD MOUNTED IMMEDIATELY BEHIND THE CUTTING DRUM.
2. OTHER SIMILAR PATTERNS WILL BE ACCEPTABLE IF THEY CONSIST OF A SMOOTH, FLAT, PLANED SURFACE INTERSPERSED WITH A PATTERN OF DISCONTINUOUS LONGITUDINAL STRIATIONS.
3. FOR BASIS OF PAYMENT SEE RECURRING SPECIAL PROVISION "HOT-MIX ASPHALT SURFACE CORRECTION", CHECK SHEET #13.

Note: All dimensions are in INCHES (millimeters) unless otherwise shown.

**DISTRICT 5 DETAIL NO. 4400080**

FILE NAME =	USER NAME = craigre	DESIGNED -	REVISED - 11/06
et:\pw\work\p\d01509\4400080.dgn		DRAWN -	REVISED - 08/11
	PLOT SCALE = 40.000' / in.	CHECKED -	REVISED -
	PLOT DATE = 8/12/2011	DATE -	REVISED -


**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**HOT-MIX ASPHALT SURFACE CORRECTION**

SCALE: SHEET NO. OF SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
CONTRACT NO.				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				

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

 Illinois Department of Transportation	
PASSED <i>Michael Bond</i> January 1, 2019	ISSUED 1-1-97
ENGINEER OF POLICY AND PROCEDURES	
APPROVED <i>Joe E. Ellis</i> January 1, 2019	
ENGINEER OF DESIGN AND ENVIRONMENT	

DATE	REVISIONS
1-1-19	Added new symbols.
1-1-11	Updated abbreviations and symbols.

## STANDARD SYMBOLS, ABBREVIATIONS AND PATTERNS

(Sheet 1 of 9)

**STANDARD 000001-07**



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

**STANDARD SYMBOLS,  
ABBREVIATIONS  
AND PATTERNS**  
(Sheet 2 of 9)  
**STANDARD 000001-07**

Illinois Department of Transportation

PASSED January 1, 2019  
  
 ENGINEER OF POLICY AND PROCEDURES

ISSUED 1-1-97

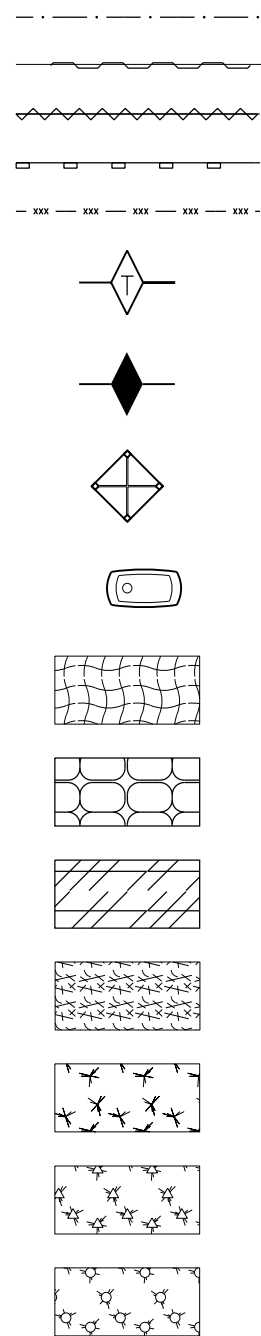
APPROVED January 1, 2019  
  
 ENGINEER OF DESIGN AND ENVIRONMENT

**EROSION & SEDIMENT CONTROL ITEMS**

**EX**

**PR**

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

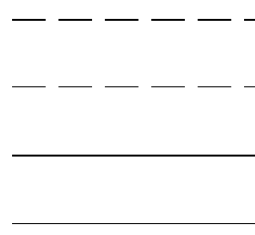


**CONTOUR ITEMS**

**EX**

**PR**

- Approx. Index Line
- Approx. Intermediate Line
- Index Contour
- Intermediate Contour

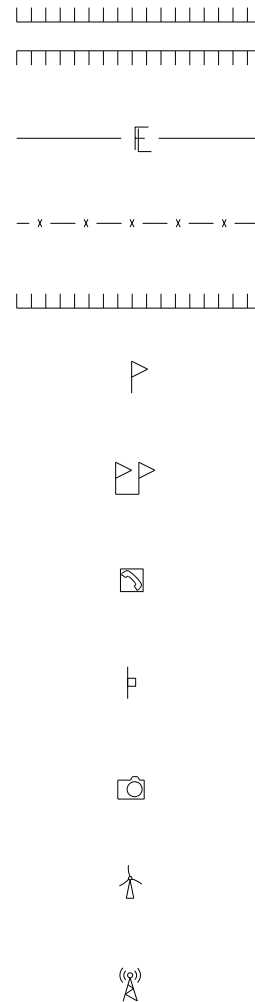


**NON-HIGHWAY IMPROVEMENT ITEMS**

**EX**

**PR**

- Noise Attn./Levee
- Field Line
- Fence
- Base of Levee
- Mailbox
- Multiple Mailboxes
- Pay Telephone
- Advertising Sign
- ITS\* Camera
- Wind Turbine
- Cellular Tower



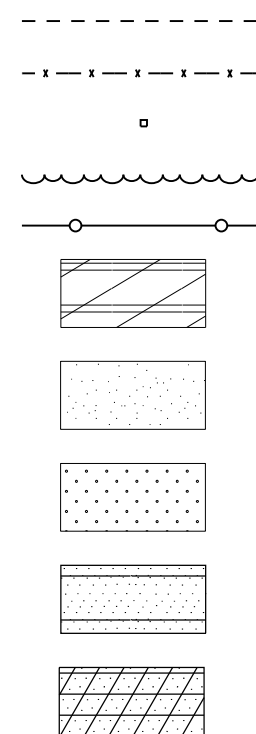
\*Intelligent Transportation Systems

**LANDSCAPING ITEMS**

**EX**

**PR**

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

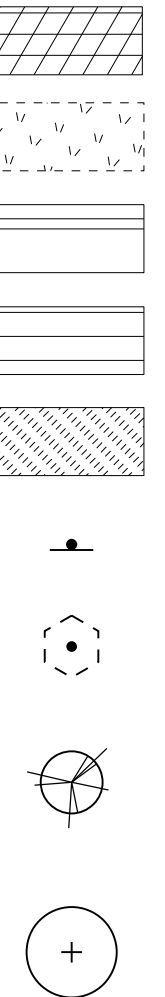


**EXISTING LANDSCAPING ITEMS (contd.)**

**EX**

**PR**

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

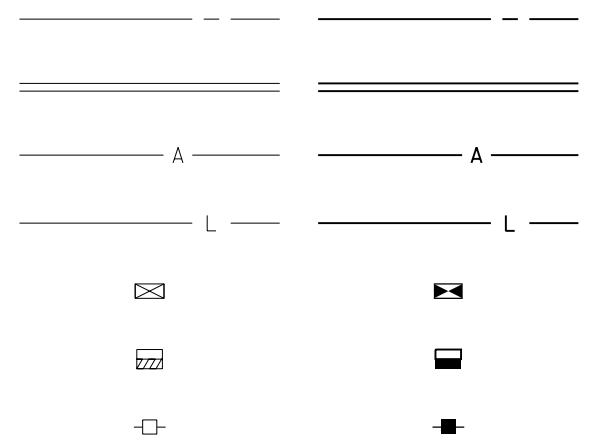


**LIGHTING**

**EX**

**PR**

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



Illinois Department of Transportation

PASSED January 1, 2019  
*Michael Bond*  
 ENGINEER OF POLICY AND PROCEDURES

APPROVED January 1, 2019  
*Joe E. ...*  
 ENGINEER OF DESIGN AND ENVIRONMENT

ISSUED 1-1-97

**STANDARD SYMBOLS, ABBREVIATIONS AND PATTERNS**  
 (Sheet 3 of 9)

**STANDARD 000001-07**

**LIGHTING  
(contd.)**

**EX**

**PR**

Pull Point



Handhole



Heavy Duty Handhole



Junction Box



Light Unit Comb.



Electrical Ground



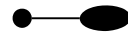
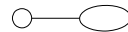
Traffic Flow Arrow



High Mast Pole  
(Half Size)



Light Unit-1

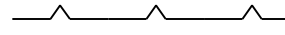


**PAVEMENT (MISC.)**

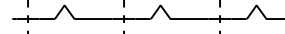
**EX**

**PR**

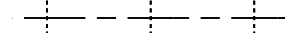
Keyed Long. Joint



Keyed Long. Joint w/Tie Bars



Sawed Long. Joint w/Tie Bars



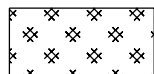
Bituminous Shoulder



Bituminous Taper



Stabilized Driveway



Widening



**PAVEMENT MARKINGS**

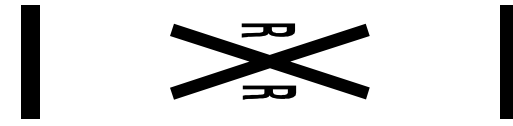
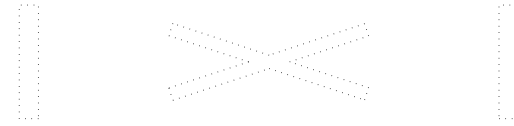
**EX**

**PR**

Handicap Symbol



RR Crossing



Raised Marker Amber 1 Way



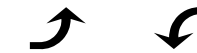
Raised Marker Amber 2 Way



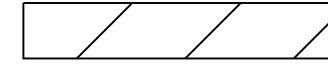
Raised Marker Crystal 1 Way



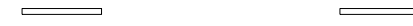
Two Way Turn Left



Shoulder Diag. Pattern



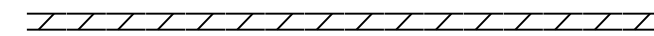
Skip-Dash White



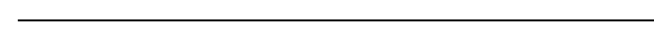
Skip-Dash Yellow



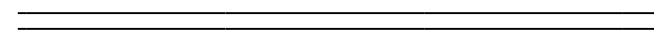
Stop Line



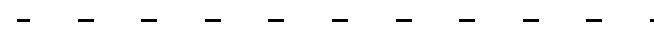
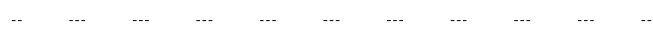
Solid Line



Double Centerline



Dotted Lines



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**STANDARD SYMBOLS,  
ABBREVIATIONS  
AND PATTERNS**

(Sheet 4 of 9)

**STANDARD 000001-07**

**PAVEMENT MARKINGS**  
**(contd.)**

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

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

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

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

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

CL Multilane Undiv.

Two Way Turn Left Line

Urban Combination Left

Urban Combination Right

Urban Left Turn Arrow

Urban Right Turn Arrow

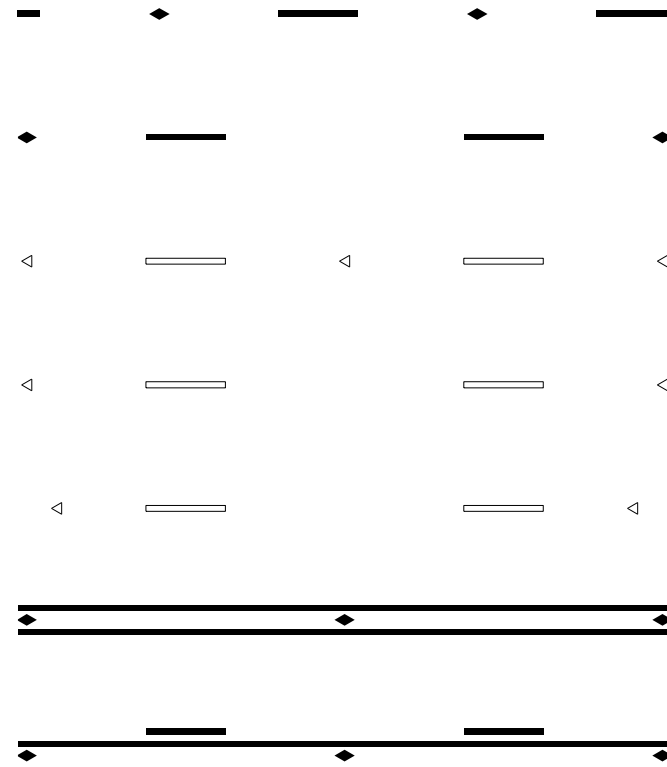
Urban Left Turn Only

Urban Right Turn Only

Urban Thru Only

**EX**

**PR**



ONLY ONLY ONLY



ONLY ONLY ONLY



**RAILROAD ITEMS**

**EX**

**PR**

Abandoned Railroad



Railroad



Railroad Point



Control Box



Crossing Gate



Flashing Signal



Railroad Cant. Mast Arm



Crossbuck



**REMOVAL ITEMS**

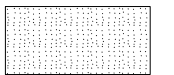
**EX**

**PR**

Removal Tic



Bituminous Removal



Hatch Pattern



Tree Removal Single



**RIGHT OF WAY ITEMS**

**EX**

**PR**

Future ROW Corner Monument



ROW Marker



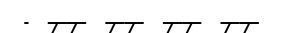
ROW Line



Easement



Temporary Easement



**STANDARD SYMBOLS,  
ABBREVIATIONS  
AND PATTERNS**

(Sheet 5 of 9)

**STANDARD 000001-07**

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**PAVEMENT MARKINGS**  
**(contd.)**

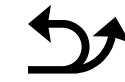
**EX**

**PR**

Urban U-Turn



Urban Combined U-Turn



Rural Combination Left



Rural Combination Right



Rural Left Turn Arrow



Rural Right Turn Arrow



Rural Left Turn Only



ONLY



Rural Right Turn Only



ONLY



Rural Thru Only



ONLY



Bike Lane Symbol



Bike Lane Text

BIKE LANE

Bike Path Shared



Bike Shared Roadway



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**STANDARD SYMBOLS,  
ABBREVIATIONS  
AND PATTERNS**

(Sheet 6 of 9)

**STANDARD 000001-07**

**RIGHT OF WAY ITEMS  
(contd.)**

	<u>EX</u>	<u>PR</u>
Access Control Line	—	— AC —
Access Control Line & ROW	— AC —	— AC —
Access Control Line & ROW with Fence	— x — AC —	— x — AC — x —
Excess ROW Line		— XS —

**ROADWAY PLAN  
ITEMS**

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

**ROADWAY PROFILES**

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

**SIGNING ITEMS**

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

**SIGNING ITEMS  
(contd.)**

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

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**STANDARD SYMBOLS,  
ABBREVIATIONS  
AND PATTERNS**  
(Sheet 7 of 9)

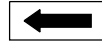
**STANDARD 000001-07**

**SIGNING ITEMS**  
**(contd.)**

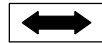
**EX**

**PR**

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



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



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



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



One Way Left R6-1L  
(Half Size)



One Way Right R6-1R  
(Half Size)



Left Turn Lane R3-I100L  
(Half Size)



Keep Left R4-7AL  
(Half Size)



Keep Left R4-7BL  
(Half Size)



Keep Right R4-7AR  
(Half Size)



Keep Right R4-7BR  
(Half Size)



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



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



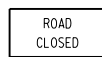
No Left Turn R3-2  
(Half Size)



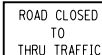
No Right Turn R3-1  
(Half Size)



Road Closed R11-2  
(Half Size)



Road Closed Thru Traffic R11-2  
(Half Size)

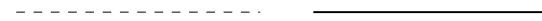


**STRUCTURES ITEMS**

**EX**

**PR**

Box Culvert Barrel



Box Culvert Headwall



Bridge Pier



Bridge



Retaining Wall



Temporary Sheet Piling



**TRAFFIC SHEET ITEMS**

**EX**

**PR**

Cable Number



Left Turn Green



Left Turn Yellow



Signal Backplate



Signal Section 8" (200 mm)



Signal Section 12" (300 mm)



Walk/Don't Walk Letters



Walk/Don't Walk Symbols



**TRAFFIC SIGNAL ITEMS**

**EX**

**PR**

Galv. Steel Conduit



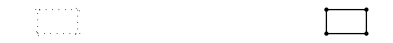
Underground Cable



Detector Loop Line



Detector Loop Large



Detector Loop Small



Detector Loop Quadrapole



**STANDARD SYMBOLS,  
ABBREVIATIONS  
AND PATTERNS**

(Sheet 8 of 9)

**STANDARD 000001-07**

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**TRAFFIC SIGNAL ITEMS (contd.)**

**EX**

**PR**

Detector Raceway



Aluminum Mast Arm



Steel Mast Arm



Veh. Detector Magnetic



Conduit Splice



Controller



Gulfbox Junction



Wood Pole



Temp. Signal Head



Handhole



Double Handhole



Heavy Duty Handhole



Junction Box



Ped. Pushbutton Detector



Ped. Signal Head



Power Pole Service



Priority Veh. Detector



Signal Head



Signal Head w/Backplate



Signal Post



Closed Circuit TV



Video Detector System



**UNDERGROUND UTILITY ITEMS**

**EX**

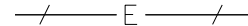
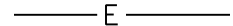
**PR**

**ABANDONED**

Cable TV



Electric Cable



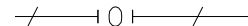
Fiber Optic



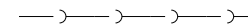
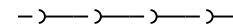
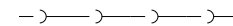
Gas Pipe



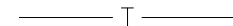
Oil Pipe



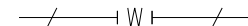
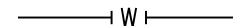
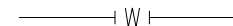
Sanitary Sewer



Telephone Cable



Water Pipe



**UTILITIES ITEMS**

**EX**

**PR**

Controller



Double Handhole



Fire Hydrant



GuyWire or Deadman Anchor



Handhole



Heavy Duty Handhole



Junction Box



Light Pole



Manhole



Monitoring Well (Gasoline)



Pipeline Warning Sign



Power Pole



Power Pole with Light



Sanitary Sewer Cleanout



Splice Box Above Ground



Telephone Splice Box Above Ground



Telephone Pole



**UTILITY ITEMS (contd.)**

**EX**

**PR**

Traffic Signal



Traffic Signal Control Box



Water Meter



Water Meter Valve Box



Profile Line



Aerial Power Line



**VEGETATION ITEMS**

**EX**

**PR**

Deciduous Tree



Bush or Shrub



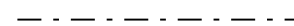
Evergreen Tree



Stump



Orchard/Nursery Line



Vegetation Line



Woods & Bush Line

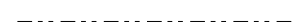


**WATER FEATURE ITEMS**

**EX**

**PR**

Stream or Drainage Ditch



Waters Edge



Water Surface Indicator



Water Point



Disappearing Ditch



Marsh



Marsh/Swamp Boundary



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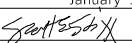
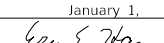
**STANDARD SYMBOLS, ABBREVIATIONS AND PATTERNS**

(Sheet 9 of 9)

**STANDARD 000001-07**



REINFORCEMENT BARS - ENGLISH (METRIC)																	
Bar Size	Dia. in. mm	Cross-Sectional Area sq. in. (sq. mm)	Weight lbs./ft. kg/m	SPACING, in. (mm)													
				4 (100)	4½ (115)	5 (125)	5½ (140)	6 (150)	6½ (165)	7 (175)	7½ (190)	8 (200)	8½ (215)	9 (225)	10 (250)	11 (275)	12 (300)
English (metric)				AREA OF STEEL PER FOOT (METER), sq. in. (sq. mm)													
3 (10)	0.375 (9.5)	0.110 (71)	0.376 (0.560)	0.330 (710)	0.293 (617)	0.264 (568)	0.240 (507)	0.220 (473)	0.203 (430)	0.189 (406)	0.176 (374)	0.165 (355)	0.155 (330)	0.147 (316)	0.132 (284)	0.120 (258)	0.110 (237)
4 (13)	0.500 (12.7)	0.196 (129)	0.668 (0.944)	0.588 (1290)	0.523 (1122)	0.470 (1032)	0.428 (921)	0.392 (860)	0.362 (782)	0.336 (737)	0.314 (679)	0.294 (645)	0.277 (600)	0.261 (573)	0.235 (516)	0.214 (469)	0.196 (430)
5 (16)	0.625 (15.9)	0.307 (199)	1.043 (1.552)	0.921 (1990)	0.819 (1730)	0.737 (1592)	0.670 (1421)	0.614 (1327)	0.567 (1206)	0.526 (1137)	0.491 (1047)	0.461 (995)	0.433 (926)	0.409 (884)	0.368 (796)	0.335 (724)	0.307 (663)
6 (19)	0.750 (19.1)	0.442 (284)	1.502 (2.235)	1.326 (2840)	1.179 (2470)	1.061 (2272)	0.964 (2029)	0.884 (1893)	0.816 (1721)	0.758 (1623)	0.707 (1495)	0.663 (1420)	0.624 (1321)	0.589 (1262)	0.530 (1136)	0.482 (1033)	0.442 (947)
7 (22)	0.875 (22.2)	0.601 (387)	2.044 (3.042)	1.803 (3870)	1.603 (3365)	1.442 (3096)	1.311 (2764)	1.202 (2580)	1.110 (2345)	1.030 (2211)	0.962 (2037)	0.902 (1935)	0.848 (1800)	0.801 (1720)	0.721 (1548)	0.656 (1407)	0.601 (1290)
8 (25)	1.000 (25.4)	0.785 (510)	2.670 (3.973)	2.355 (5100)	2.093 (4435)	1.884 (4080)	1.713 (3543)	1.570 (3400)	1.449 (3091)	1.346 (2914)	1.256 (2684)	1.178 (2550)	1.108 (2372)	1.047 (2267)	0.942 (2040)	0.856 (1855)	0.785 (1700)
9 (29)	1.128 (28.7)	1.000 (645)	3.400 (5.060)	3.000 (6450)	2.667 (5609)	2.400 (5160)	2.182 (4607)	2.000 (4300)	1.846 (3909)	1.714 (3686)	1.600 (3395)	1.500 (3225)	1.412 (3000)	1.333 (2867)	1.200 (2580)	1.091 (2345)	1.000 (2150)
10 (32)	1.270 (32.3)	1.267 (819)	4.303 (6.404)	3.801 (8190)	3.379 (7122)	3.041 (6552)	2.764 (5850)	2.534 (5460)	2.339 (4964)	2.172 (4680)	2.027 (4311)	1.901 (4095)	1.789 (3809)	1.689 (3640)	1.520 (3276)	1.382 (2978)	1.267 (2730)
11 (36)	1.410 (35.8)	1.561 (1006)	5.313 (7.907)	4.683 (10060)	4.163 (8748)	3.746 (8048)	3.406 (7186)	3.122 (6707)	2.882 (6097)	2.676 (5749)	2.498 (5295)	2.342 (5030)	2.204 (4679)	2.081 (4471)	1.873 (4024)	1.703 (3658)	1.561 (3353)

 Illinois Department of Transportation  
 PASSED January 1, 2009  
  
 ENGINEER OF POLICY AND PROCEDURES  
 APPROVED January 1, 2009  
  
 ENGINEER OF DESIGN AND ENVIRONMENT

ISSUED 1-1-97

DATE	REVISIONS
1-1-09	Switched units to English (metric).
1-1-07	Deleted metric table. Soft converted English table.

**AREAS OF REINFORCEMENT BARS**  
  
**STANDARD 001001-02**

DECIMAL OF AN INCH AND OF A FOOT																	
A		B	A		B	A		B	A		B	A		B			
$\frac{1}{64}$	0.0052	$\frac{1}{16}$	$\frac{1}{64}$	0.171875	$2\frac{1}{16}$	$\frac{1}{32}$	0.3385	$4\frac{1}{16}$	$\frac{3}{64}$	0.5052	$6\frac{1}{16}$	$\frac{4}{64}$	0.671875	$8\frac{1}{16}$	$\frac{27}{32}$	0.8385	$10\frac{1}{16}$
	0.0104	$\frac{1}{8}$		0.1771	$2\frac{1}{8}$		0.34375	$4\frac{1}{8}$		0.5104	$6\frac{1}{8}$		0.6771	$8\frac{1}{8}$		0.84375	$10\frac{1}{8}$
	0.015625	$\frac{3}{16}$		0.1823	$2\frac{3}{16}$		0.3490	$4\frac{3}{16}$		0.515625	$6\frac{3}{16}$		0.6823	$8\frac{3}{16}$		0.8490	$10\frac{3}{16}$
	0.0208	$\frac{1}{4}$		0.1875	$2\frac{1}{4}$		0.3542	$4\frac{1}{4}$		0.5208	$6\frac{1}{4}$		0.6875	$8\frac{1}{4}$		0.8542	$10\frac{1}{4}$
$\frac{1}{32}$	0.0260	$\frac{5}{16}$	$\frac{1}{32}$	0.1927	$2\frac{5}{16}$	$\frac{2}{64}$	0.359375	$4\frac{5}{16}$	$\frac{17}{32}$	0.5260	$6\frac{5}{16}$	$\frac{45}{64}$	0.6927	$8\frac{5}{16}$	$\frac{55}{64}$	0.859375	$10\frac{5}{16}$
	0.03125	$\frac{3}{8}$		0.1979	$2\frac{3}{8}$		0.3646	$4\frac{3}{8}$		0.53125	$6\frac{3}{8}$		0.6979	$8\frac{3}{8}$		0.8646	$10\frac{3}{8}$
	0.0365	$\frac{7}{16}$		0.203125	$2\frac{7}{16}$		0.3698	$4\frac{7}{16}$		0.5365	$6\frac{7}{16}$		0.703125	$8\frac{7}{16}$		0.8698	$10\frac{7}{16}$
	0.0417	$\frac{1}{2}$		0.2083	$2\frac{1}{2}$		0.3750	$4\frac{1}{2}$		0.5417	$6\frac{1}{2}$		0.7083	$8\frac{1}{2}$		0.8750	$10\frac{1}{2}$
$\frac{3}{64}$	0.046875	$\frac{9}{16}$	$\frac{1}{32}$	0.2135	$2\frac{9}{16}$	$\frac{25}{64}$	0.3802	$4\frac{9}{16}$	$\frac{35}{64}$	0.546875	$6\frac{9}{16}$	$\frac{23}{32}$	0.7135	$8\frac{9}{16}$	$\frac{57}{64}$	0.8802	$10\frac{9}{16}$
	0.0521	$\frac{3}{8}$		0.21875	$2\frac{3}{8}$		0.3854	$4\frac{3}{8}$		0.5521	$6\frac{3}{8}$		0.71875	$8\frac{3}{8}$		0.8854	$10\frac{3}{8}$
	0.0573	$\frac{11}{16}$		0.2240	$2\frac{11}{16}$		0.390625	$4\frac{11}{16}$		0.5573	$6\frac{11}{16}$		0.7240	$8\frac{11}{16}$		0.890625	$10\frac{11}{16}$
	0.0625	$\frac{3}{4}$		0.2292	$2\frac{3}{4}$		0.3958	$4\frac{3}{4}$		0.5625	$6\frac{3}{4}$		0.7292	$8\frac{3}{4}$		0.8958	$10\frac{3}{4}$
$\frac{1}{16}$	0.0677	$\frac{13}{16}$	$\frac{15}{64}$	0.234375	$2\frac{13}{16}$	$\frac{13}{32}$	0.4010	$4\frac{13}{16}$	$\frac{9}{16}$	0.5677	$6\frac{13}{16}$	$\frac{47}{64}$	0.734375	$8\frac{13}{16}$	$\frac{29}{32}$	0.9010	$10\frac{13}{16}$
	0.0729	$\frac{7}{8}$		0.2396	$2\frac{7}{8}$		0.40625	$4\frac{7}{8}$		0.5729	$6\frac{7}{8}$		0.7396	$8\frac{7}{8}$		0.90625	$10\frac{7}{8}$
	0.078125	$\frac{15}{16}$		0.2448	$2\frac{15}{16}$		0.4115	$4\frac{15}{16}$		0.578125	$6\frac{15}{16}$		0.7448	$8\frac{15}{16}$		0.9115	$10\frac{15}{16}$
	0.0833	1		0.2500	3		0.4167	5		0.5833	7		0.7500	9		0.9167	11
$\frac{3}{32}$	0.0885	$\frac{17}{16}$	$\frac{17}{64}$	0.2552	$3\frac{17}{16}$	$\frac{27}{64}$	0.421875	$5\frac{17}{16}$	$\frac{19}{32}$	0.5885	$7\frac{17}{16}$	$\frac{49}{64}$	0.7552	$9\frac{17}{16}$	$\frac{59}{64}$	0.921875	$11\frac{17}{16}$
	0.09375	$\frac{1}{8}$		0.2604	$3\frac{1}{8}$		0.4271	$5\frac{1}{8}$		0.59375	$7\frac{1}{8}$		0.7604	$9\frac{1}{8}$		0.9271	$11\frac{1}{8}$
	0.0990	$\frac{13}{16}$		0.265625	$3\frac{13}{16}$		0.4323	$5\frac{13}{16}$		0.5990	$7\frac{13}{16}$		0.765625	$9\frac{13}{16}$		0.9323	$11\frac{13}{16}$
	0.1042	$\frac{1}{4}$		0.2708	$3\frac{1}{4}$		0.4375	$5\frac{1}{4}$		0.6042	$7\frac{1}{4}$		0.7708	$9\frac{1}{4}$		0.9375	$11\frac{1}{4}$
$\frac{7}{64}$	0.109375	$\frac{5}{16}$	$\frac{9}{32}$	0.2760	$3\frac{5}{16}$	$\frac{7}{16}$	0.4427	$5\frac{5}{16}$	$\frac{39}{64}$	0.609375	$7\frac{5}{16}$	$\frac{25}{32}$	0.7760	$9\frac{5}{16}$	$\frac{15}{16}$	0.9427	$11\frac{5}{16}$
	0.1146	$\frac{3}{8}$		0.28125	$3\frac{3}{8}$		0.4479	$5\frac{3}{8}$		0.6146	$7\frac{3}{8}$		0.78125	$9\frac{3}{8}$		0.9479	$11\frac{3}{8}$
	0.1198	$\frac{11}{16}$		0.2865	$3\frac{11}{16}$		0.453125	$5\frac{11}{16}$		0.6198	$7\frac{11}{16}$		0.7865	$9\frac{11}{16}$		0.953125	$11\frac{11}{16}$
	0.1250	$\frac{1}{2}$		0.2917	$3\frac{1}{2}$		0.4583	$5\frac{1}{2}$		0.6250	$7\frac{1}{2}$		0.7917	$9\frac{1}{2}$		0.9583	$11\frac{1}{2}$
$\frac{1}{8}$	0.1302	$\frac{19}{16}$	$\frac{19}{64}$	0.296875	$3\frac{19}{16}$	$\frac{29}{64}$	0.4635	$5\frac{19}{16}$	$\frac{5}{8}$	0.6302	$7\frac{19}{16}$	$\frac{51}{64}$	0.796875	$9\frac{19}{16}$	$\frac{61}{64}$	0.9635	$11\frac{19}{16}$
	0.1354	$\frac{1}{8}$		0.3021	$3\frac{1}{8}$		0.46875	$5\frac{1}{8}$		0.6354	$7\frac{1}{8}$		0.8021	$9\frac{1}{8}$		0.96875	$11\frac{1}{8}$
	0.140625	$\frac{11}{16}$		0.3073	$3\frac{11}{16}$		0.4740	$5\frac{11}{16}$		0.640625	$7\frac{11}{16}$		0.8073	$9\frac{11}{16}$		0.9740	$11\frac{11}{16}$
	0.1458	$\frac{3}{4}$		0.3125	$3\frac{3}{4}$		0.4792	$5\frac{3}{4}$		0.6458	$7\frac{3}{4}$		0.8125	$9\frac{3}{4}$		0.9792	$11\frac{3}{4}$
$\frac{5}{64}$	0.1510	$\frac{13}{16}$	$\frac{5}{64}$	0.3177	$3\frac{13}{16}$	$\frac{31}{64}$	0.484375	$5\frac{13}{16}$	$\frac{41}{64}$	0.6510	$7\frac{13}{16}$	$\frac{13}{16}$	0.8177	$9\frac{13}{16}$	$\frac{63}{64}$	0.984375	$11\frac{13}{16}$
	0.15625	$\frac{1}{8}$		0.3229	$3\frac{1}{8}$		0.4896	$5\frac{1}{8}$		0.65625	$7\frac{1}{8}$		0.8229	$9\frac{1}{8}$		0.9896	$11\frac{1}{8}$
	0.1615	$\frac{15}{16}$		0.328125	$3\frac{15}{16}$		0.4948	$5\frac{15}{16}$		0.6615	$7\frac{15}{16}$		0.828125	$9\frac{15}{16}$		0.9948	$11\frac{15}{16}$
	0.1667	2		0.3333	4		0.5000	6		0.6667	8		0.8333	10		1.0000	12

A = Fractions of Inch or Foot  
 B = Inch Equivalents to Foot Fractions

Illinois Department of Transportation

PASSED January 1, 1997  
*Charles G. ...*  
 ENGINEER OF POLICY AND PROCEDURES

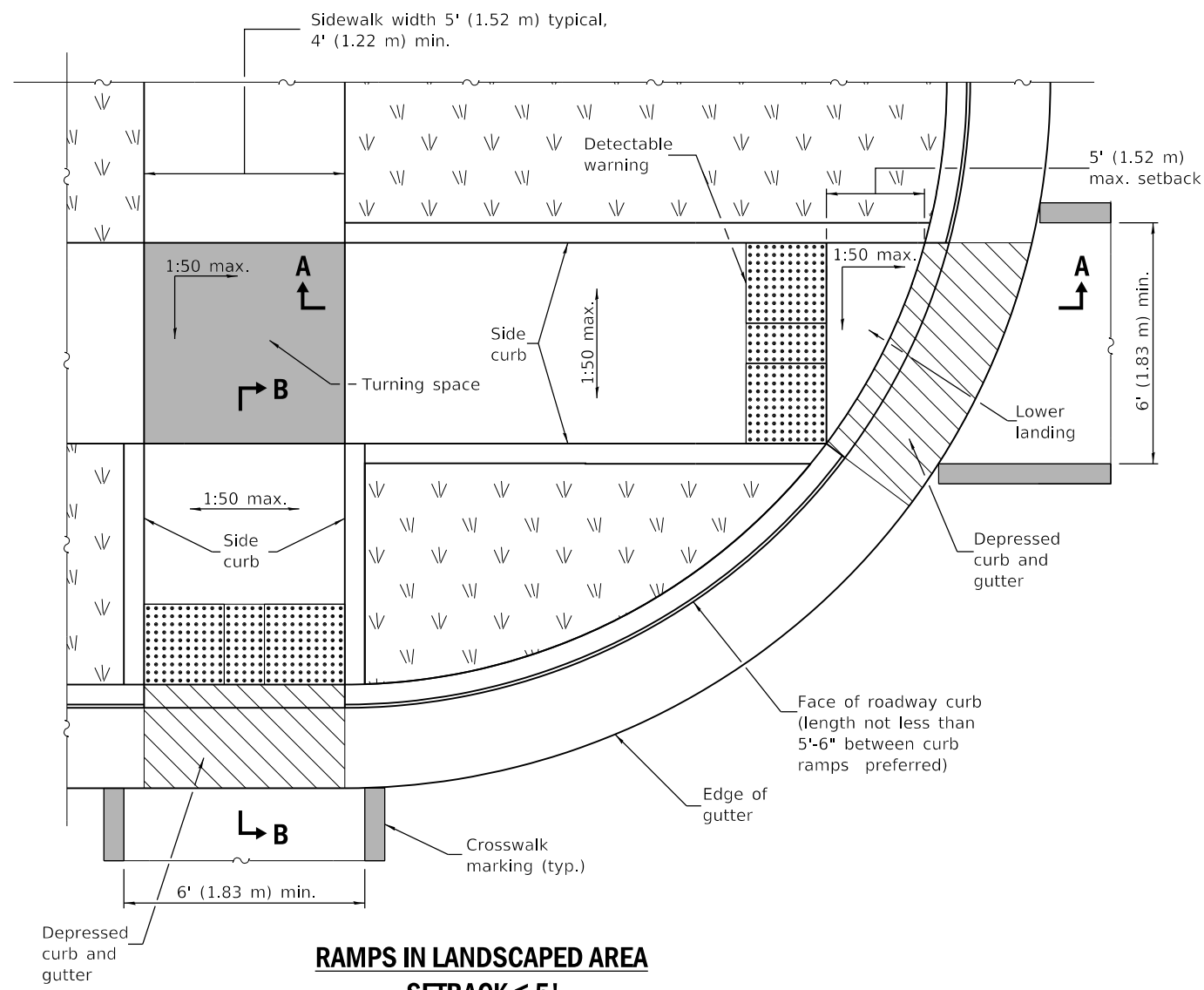
APPROVED January 1, 1997  
*Ray ...*  
 ENGINEER OF DESIGN AND ENVIRONMENT

ISSUED 1-1-97

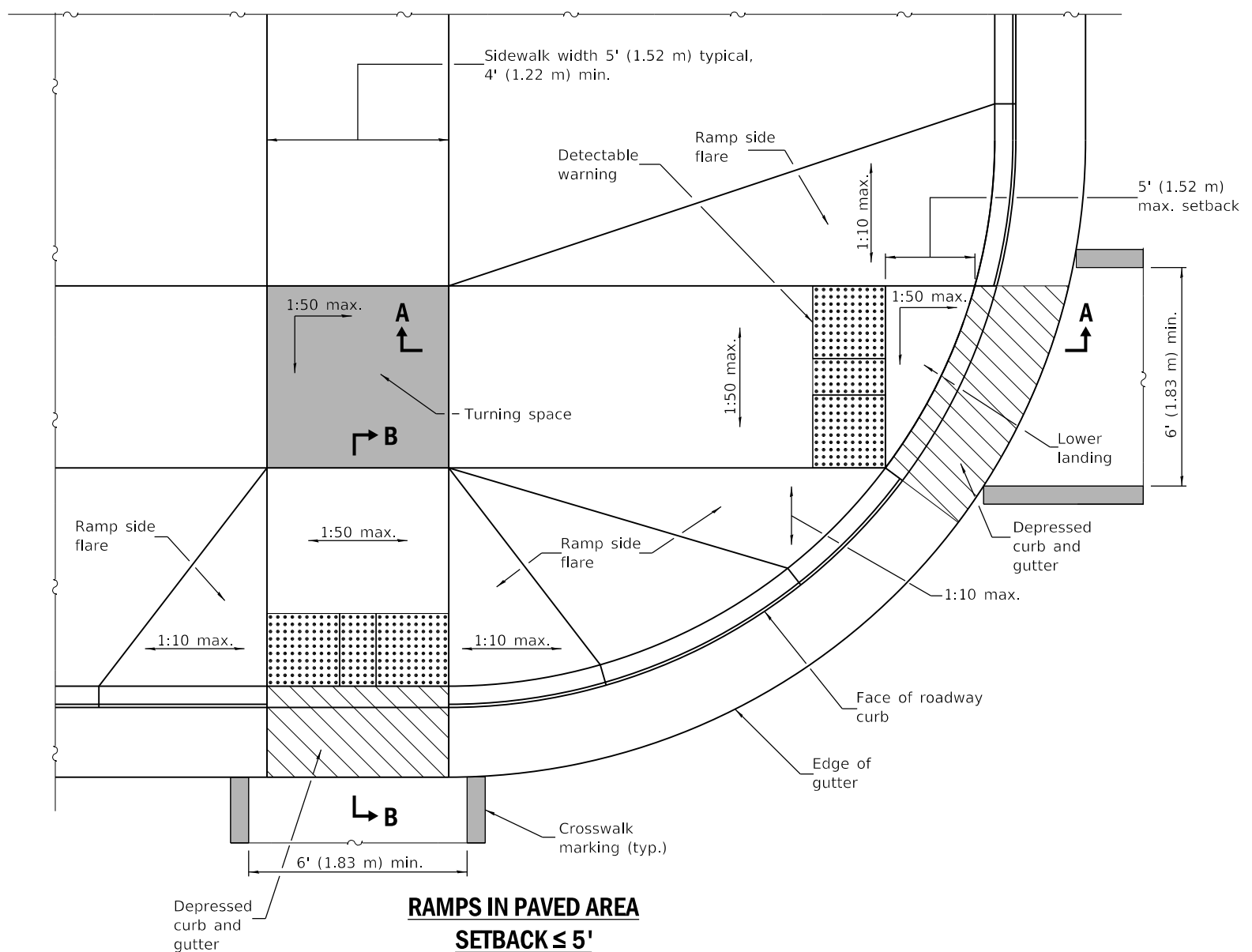
DATE	REVISIONS
1-1-97	New Standard.

**DECIMAL OF AN INCH  
 AND OF A FOOT**

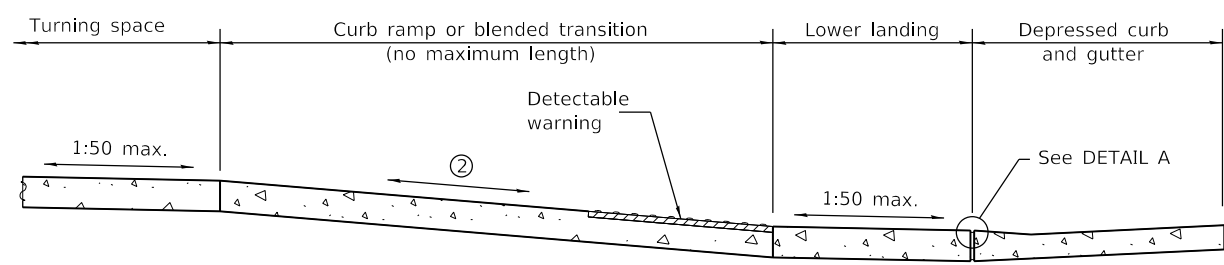
**STANDARD 001006**



**RAMPS IN LANDSCAPED AREA  
SETBACK ≤ 5'**

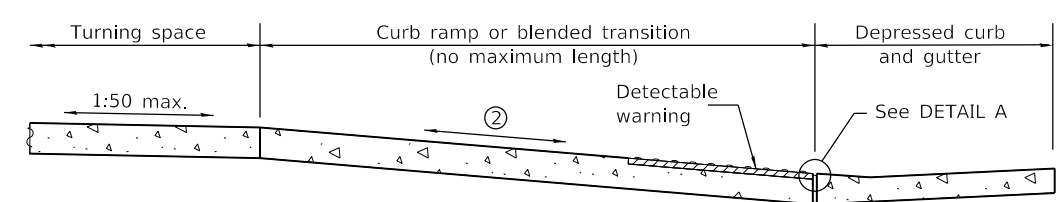


**RAMPS IN PAVED AREA  
SETBACK ≤ 5'**



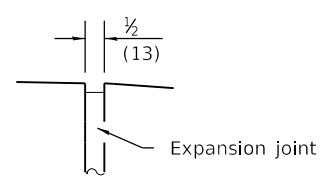
**SECTION A-A**

② The running slope of a curb ramp shall be 1:20 min. and 1:12 max. The running slope of a blended transition shall be 1:20 max.

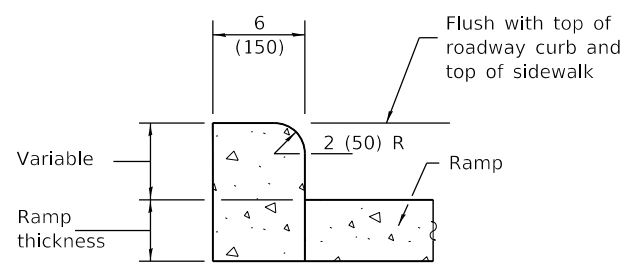


**SECTION B-B**

② The running slope of a curb ramp shall be 1:20 min. and 1:12 max. The running slope of a blended transition shall be 1:20 max.



**DETAIL A**



**SIDE CURB DETAIL**

Illinois Department of Transportation

PASSED January 1, 2019  
*Michael Bond*  
 ENGINEER OF POLICY AND PROCEDURES

APPROVED January 1, 2019  
*John E. ...*  
 ENGINEER OF DESIGN AND ENVIRONMENT

ISSUED 1-1-97

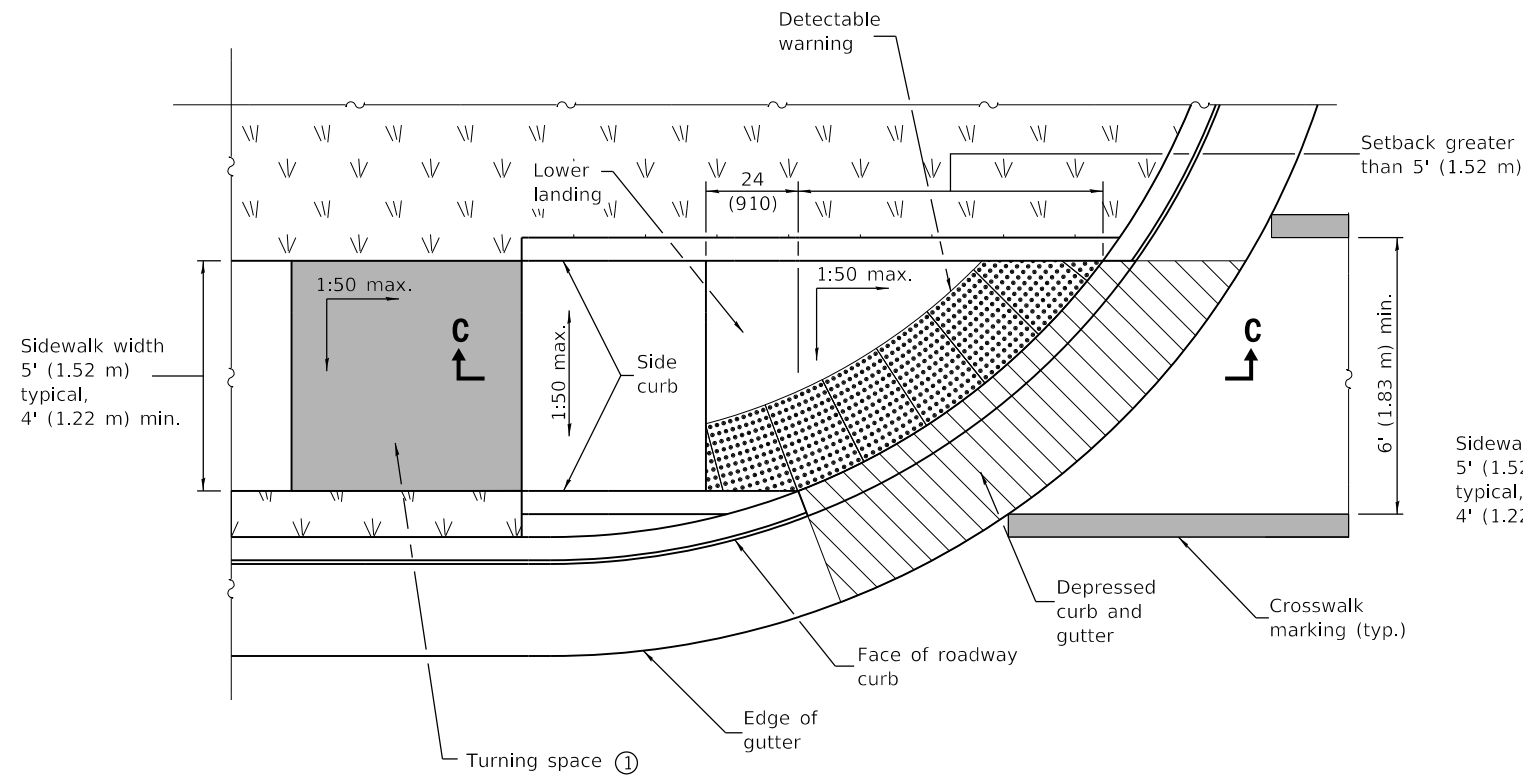
DATE	REVISIONS
1-1-19	Removed "15-foot rule", added "Blended transitions" and placement tolerances for detectable warnings.
1-1-18	Omitted diagonal slope at turning spaces and lower landings.

See Sheet 2 for GENERAL NOTES.

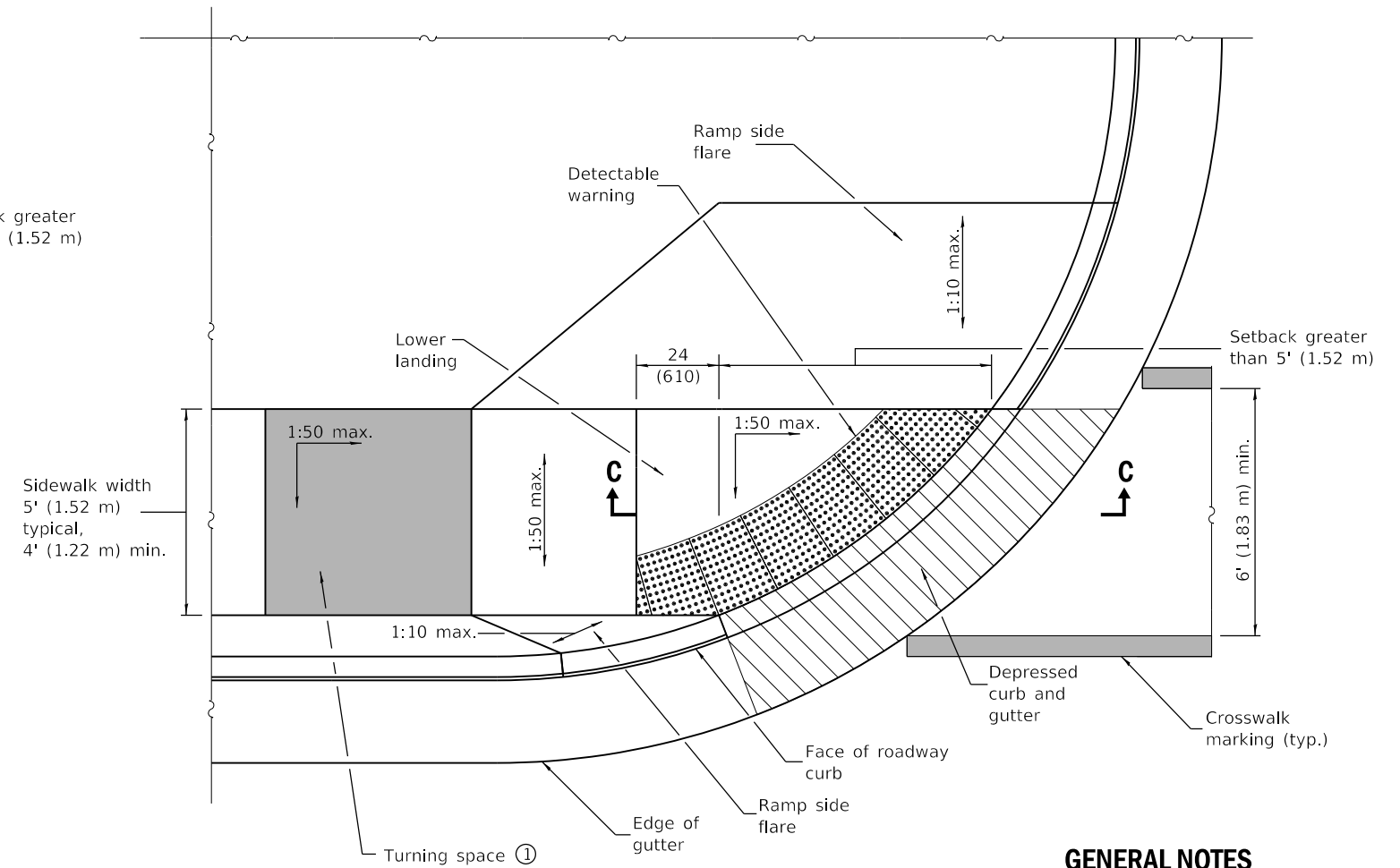
**PERPENDICULAR CURB RAMPS  
FOR SIDEWALKS**

(Sheet 1 of 2)

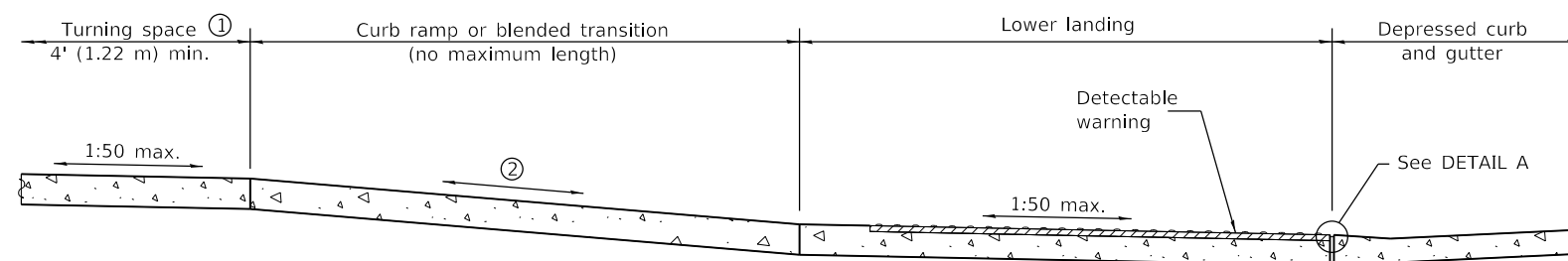
**STANDARD 424001-11**



**RAMP IN LANDSCAPED AREA  
SETBACK > 5'**



**RAMP IN PAVED AREA  
SETBACK > 5'**



**SECTION C-C**

- ① This turning space not required for blended transitions.
- ② The running slope of a curb ramp shall be 1:20 min. and 1:12 max. The running slope of a blended transition shall be 1:20 max.

**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.

Detectable warnings are shown in their ideal locations but the following placement tolerances are allowed.

**Side Border** - Detectable warnings should extend the full width of the walking surface (excluding flared sides) but a border along each side up to 2 in. (50 mm) in width is allowed.

**Curb Set-Back** - Detectable warnings located at the back of curb should closely align with the curb but a gap up to 6 in. (150 mm) behind the curb is allowed.

See Standard 606001 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)

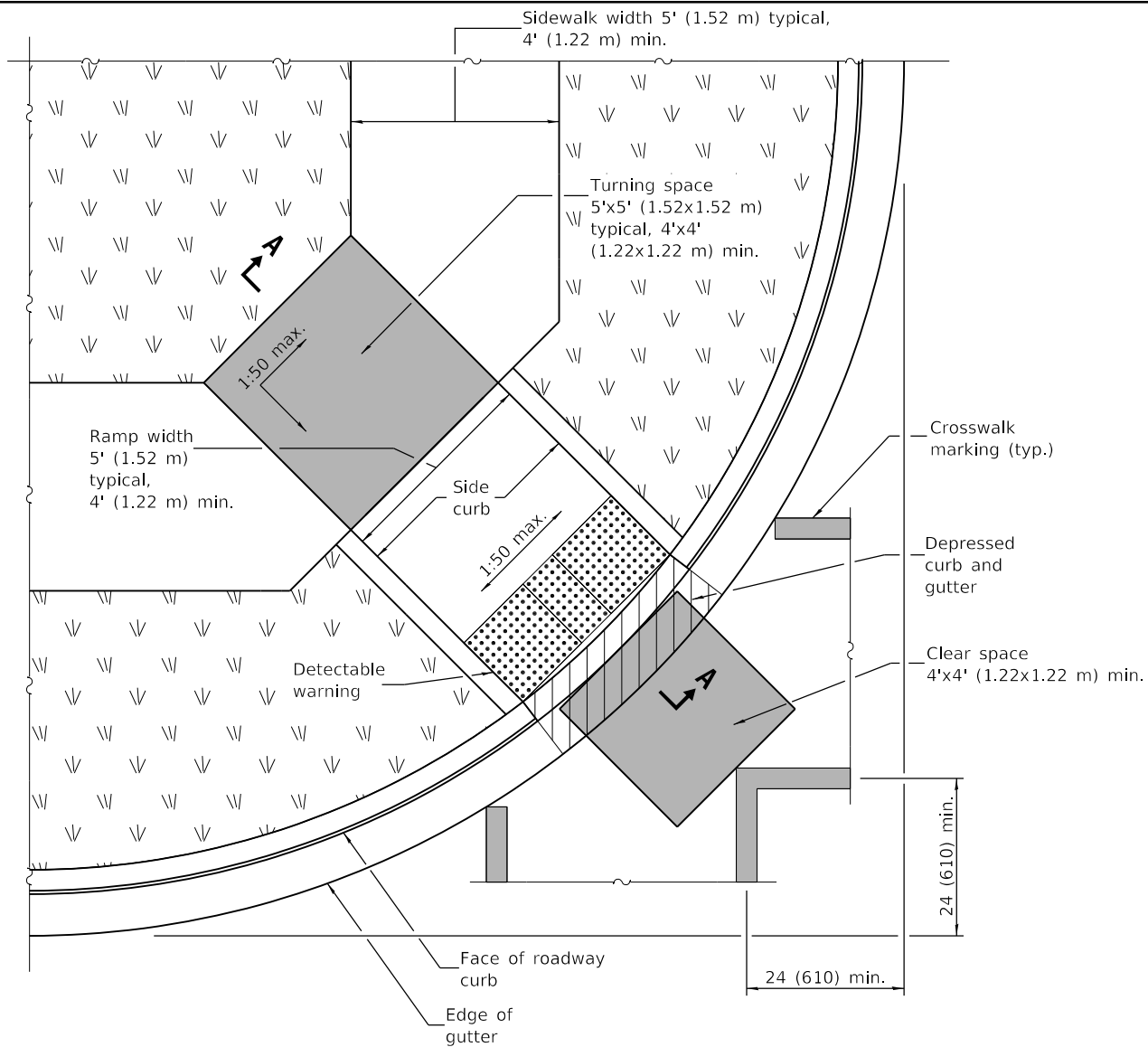
**STANDARD 424001-11**

Illinois Department of Transportation

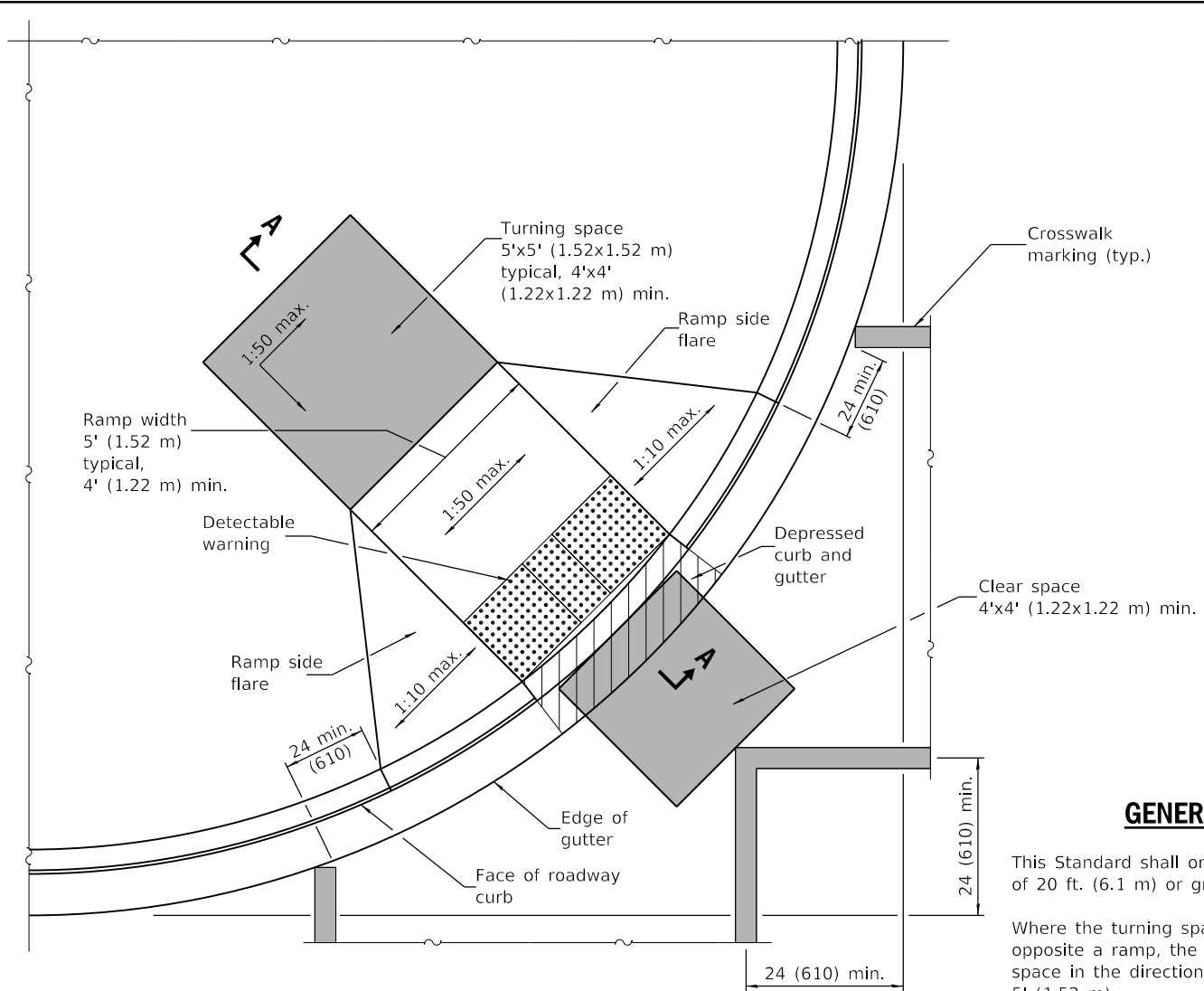
PASSED January 1, 2019  
*Michael Bond*  
ENGINEER OF POLICY AND PROCEDURES

APPROVED January 1, 2019  
*Joe E. ...*  
ENGINEER OF DESIGN AND ENVIRONMENT

ISSUED 1-1-97



**RAMP IN LANDSCAPED AREA**



**RAMP IN PAVED AREA**

**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.

Detectable warnings are shown in their ideal locations but the following placement tolerances are allowed.

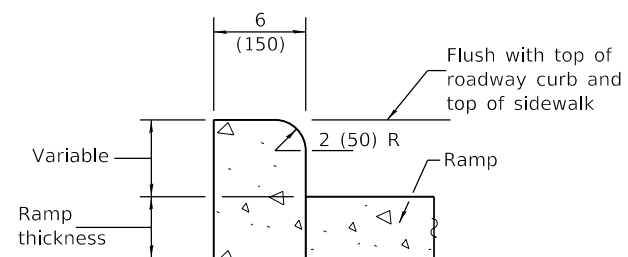
**Side Border** - Detectable warnings should extend the full width of the walking surface (excluding flared sides) but a border along each side up to 2 in. (50 mm) in width is allowed.

**Curb Set-Back** - Detectable warnings located at the back of curb should closely align with the curb but a gap up to 6 in. (150 mm) behind the curb is allowed.

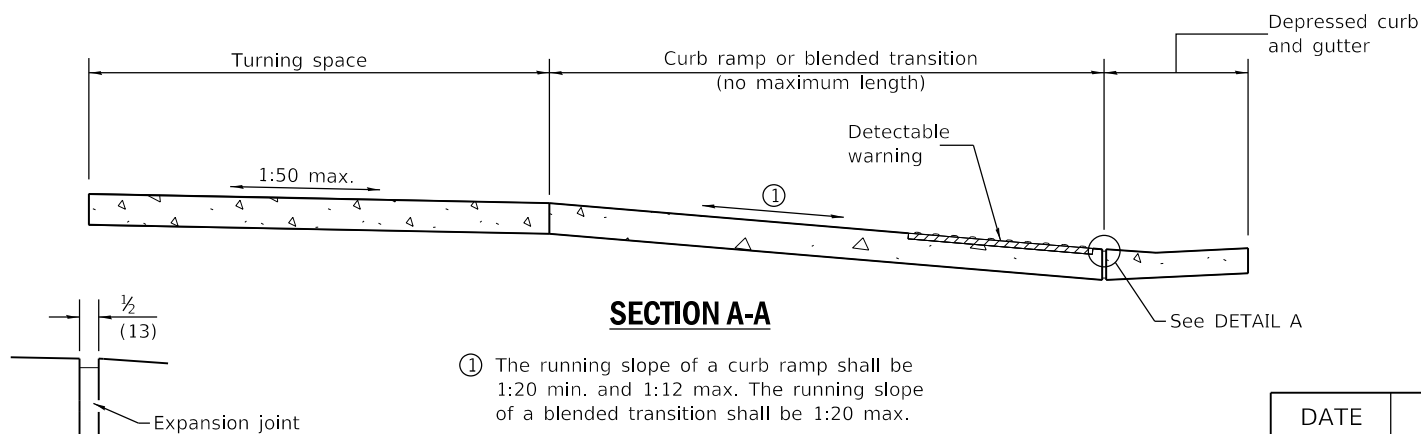
All slope ratios are expressed as units of vertical displacement to units of horizontal displacement (V:H).

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

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



**SIDE CURB DETAIL**



**SECTION A-A**

① The running slope of a curb ramp shall be 1:20 min. and 1:12 max. The running slope of a blended transition shall be 1:20 max.

**DETAIL A**

DATE	REVISIONS
1-1-19	Removed "15-foot rule", added "blended transitions" and placement tolerances for detectable warnings.
1-1-18	Omitted diagonal slope at turning spaces.

**DIAGONAL CURB RAMPS FOR SIDEWALKS**

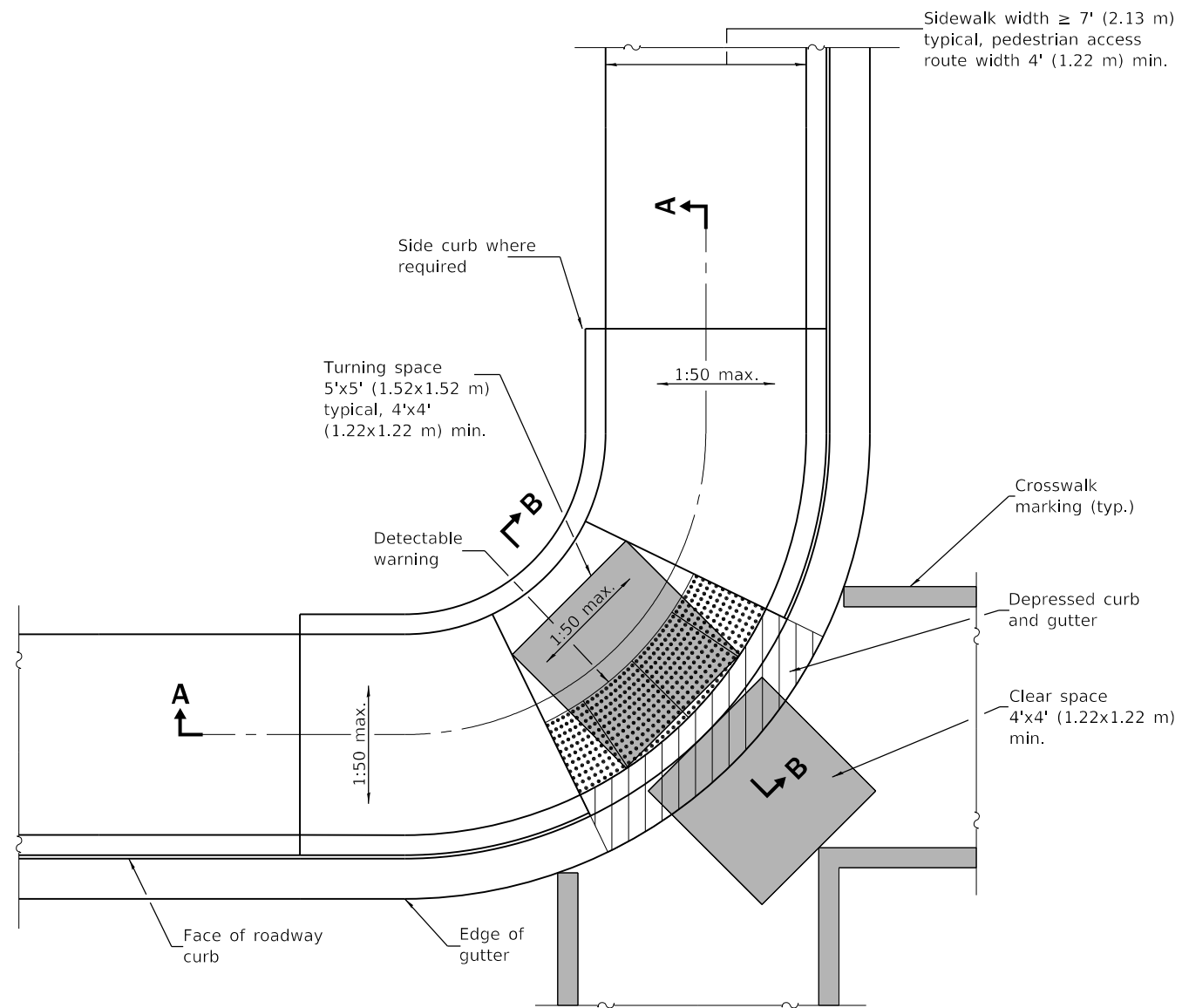
**STANDARD 424006-04**

Illinois Department of Transportation

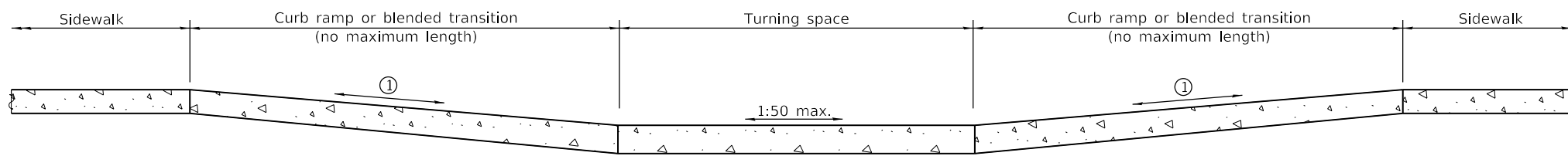
PASSED January 1, 2019  
*Michael Bond*  
 ENGINEER OF POLICY AND PROCEDURES

APPROVED January 1, 2019  
*Joe E. Calkins*  
 ENGINEER OF DESIGN AND ENVIRONMENT

ISSUED 1-1-12

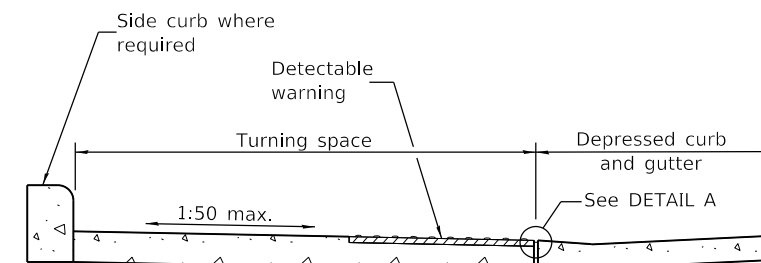


**CORNER PARALLEL CURB RAMP**

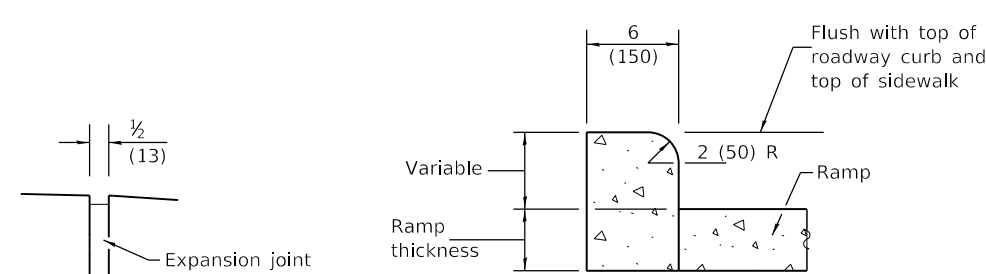


**SECTION A-A**

① The running slope of a curb ramp shall be 1:20 min. and 1:12 max. The running slope of a blended transition shall be 1:20 max.



**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.

Detectable warnings are shown in their ideal locations but the following placement tolerances are allowed.

Side Border - Detectable warnings should extend the full width of the walking surface (excluding flared sides) but a border along each side up to 2 in. (50 mm) in width is allowed.

Curb Set-Back - Detectable warnings located at the back of curb should closely align with the curb but a gap up to 6 in. (150 mm) behind the curb is allowed.

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

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

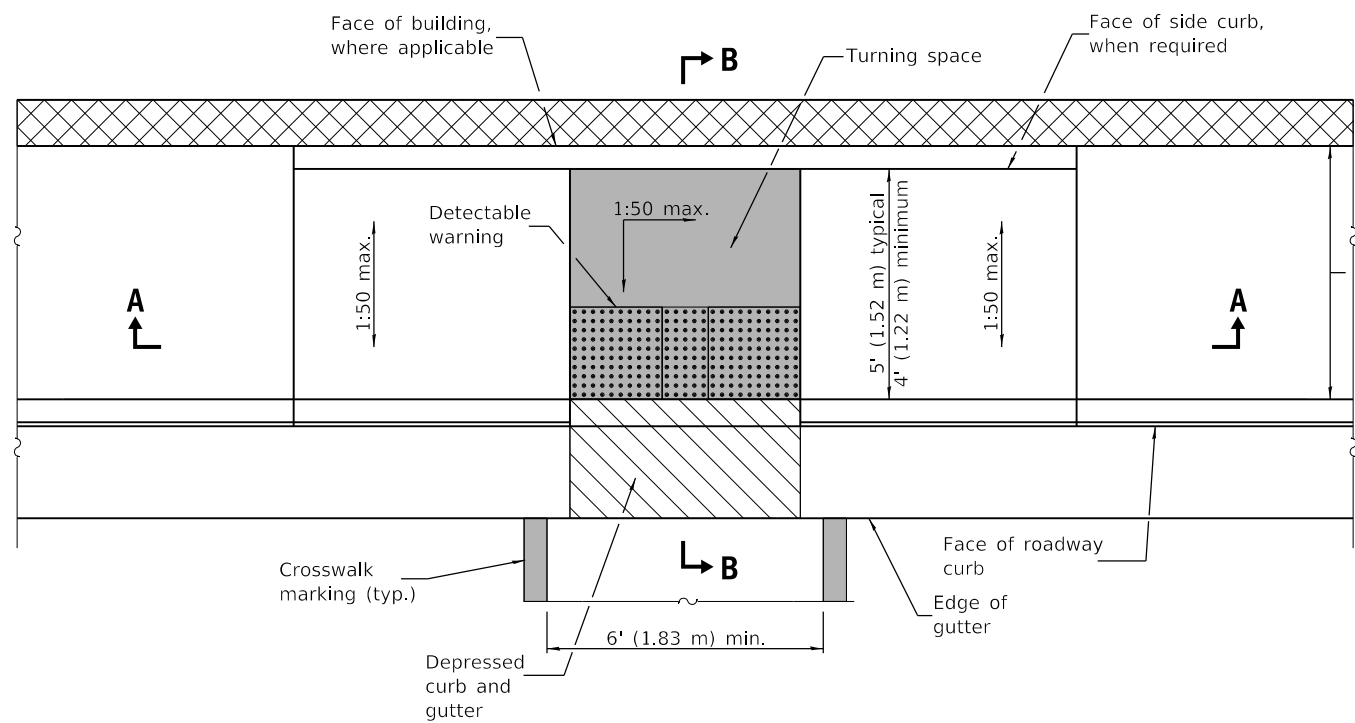
DATE	REVISIONS
1-1-19	Removed upper landing, added blended transition and detectable warning tolerances.
1-1-17	Revised sidewalk width to include 24 (610) buffer behind curb.

**CORNER PARALLEL CURB RAMPS FOR SIDEWALKS**

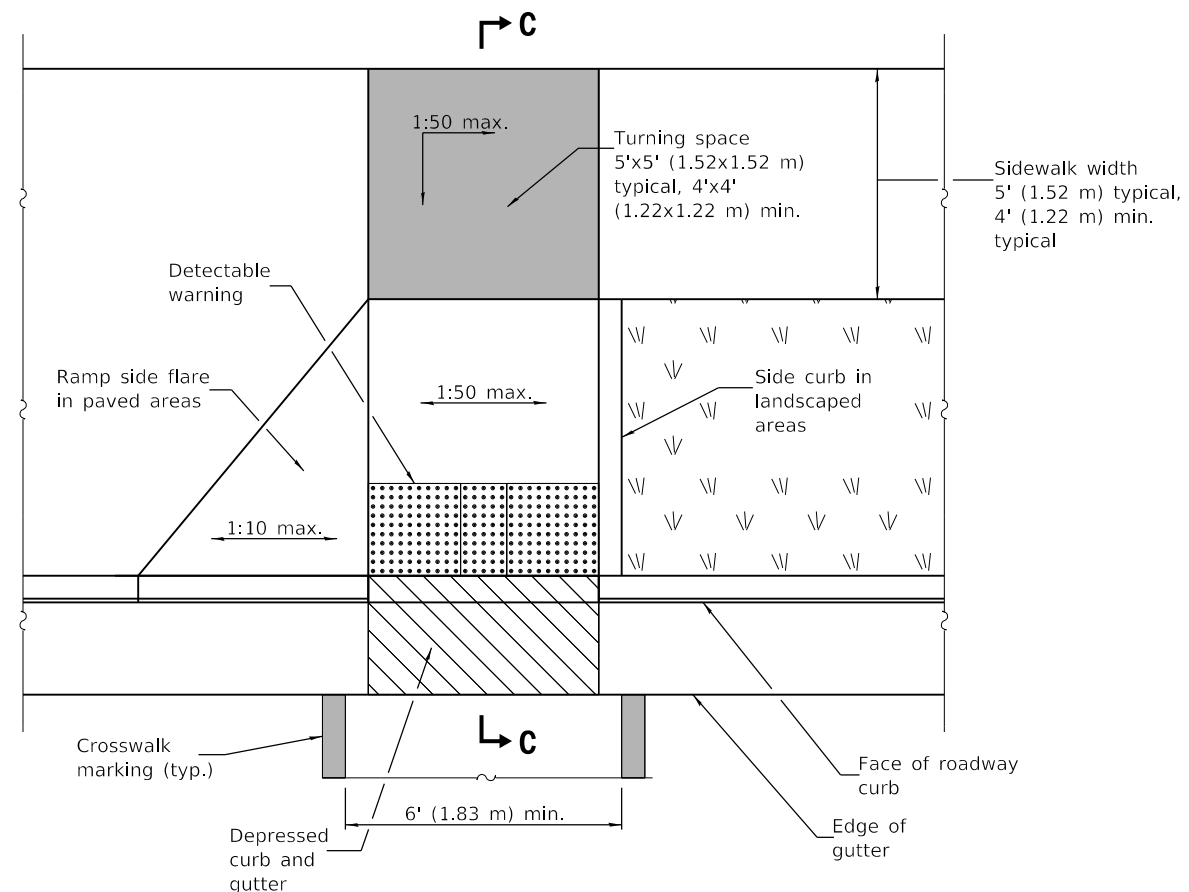
**STANDARD 424011-04**

Illinois Department of Transportation  
 PASSED January 1, 2019  
  
 ENGINEER OF POLICY AND PROCEDURES  
 APPROVED January 1, 2019  
  
 ENGINEER OF DESIGN AND ENVIRONMENT

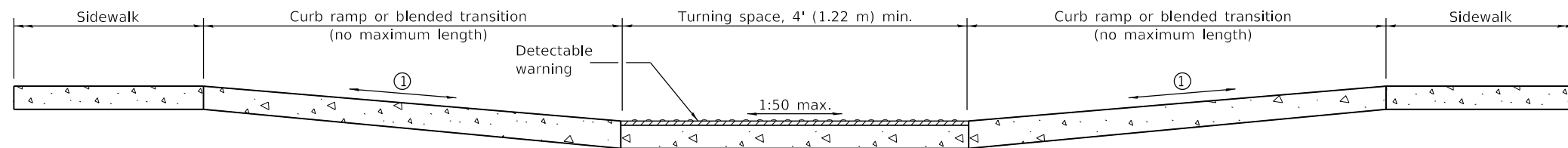
ISSUED 1-1-12



**PARALLEL MID-BLOCK CURB RAMP**

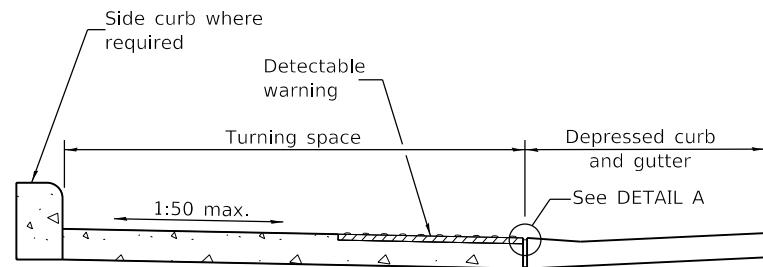


**PERPENDICULAR MID-BLOCK CURB RAMP**

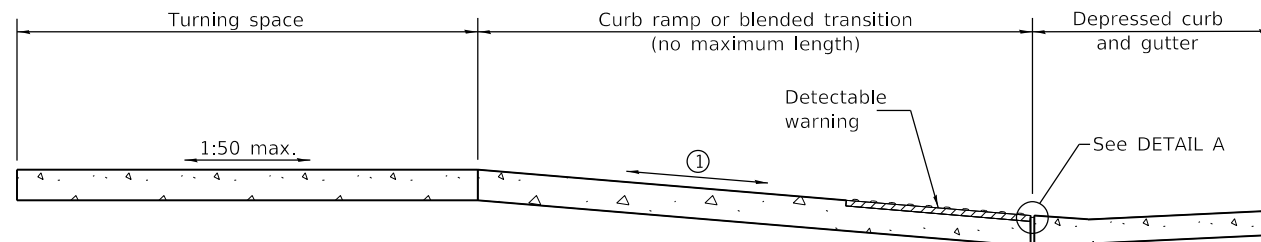


**SECTION A-A**

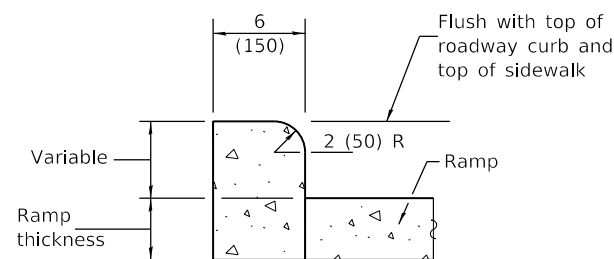
① The running slope of a curb ramp shall be 1:20 min. and 1:12 max. The running slope of a blended transition shall be 1:20 max.



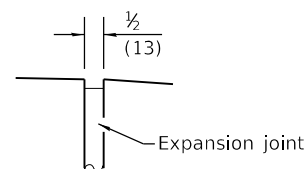
**SECTION B-B**



**SECTION C-C**



**SIDE CURB DETAIL**



**DETAIL A**

**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.

Detectable warnings are shown in their ideal locations but the following placement tolerances are allowed.

Side Border - Detectable warnings should extend the full width of the walking surface (excluding flared sides) but a border along each side up to 2 in. (50 mm) in. width is allowed.

Curb Set-Back - Detectable warnings located at the back of curb should closely align with the curb but a gap up to 6 in. (150 mm) behind the curb is allowed.

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

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

DATE	REVISIONS
1-1-19	Removed upper landing, added blended transitions and detectable warning tolerances.
1-1-18	Omitted diagonal slope at turning spaces and upper landings.

**MID-BLOCK CURB RAMPS FOR SIDEWALKS**

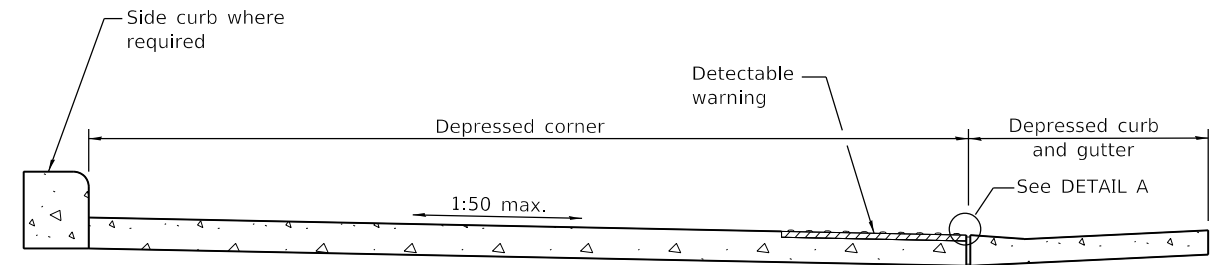
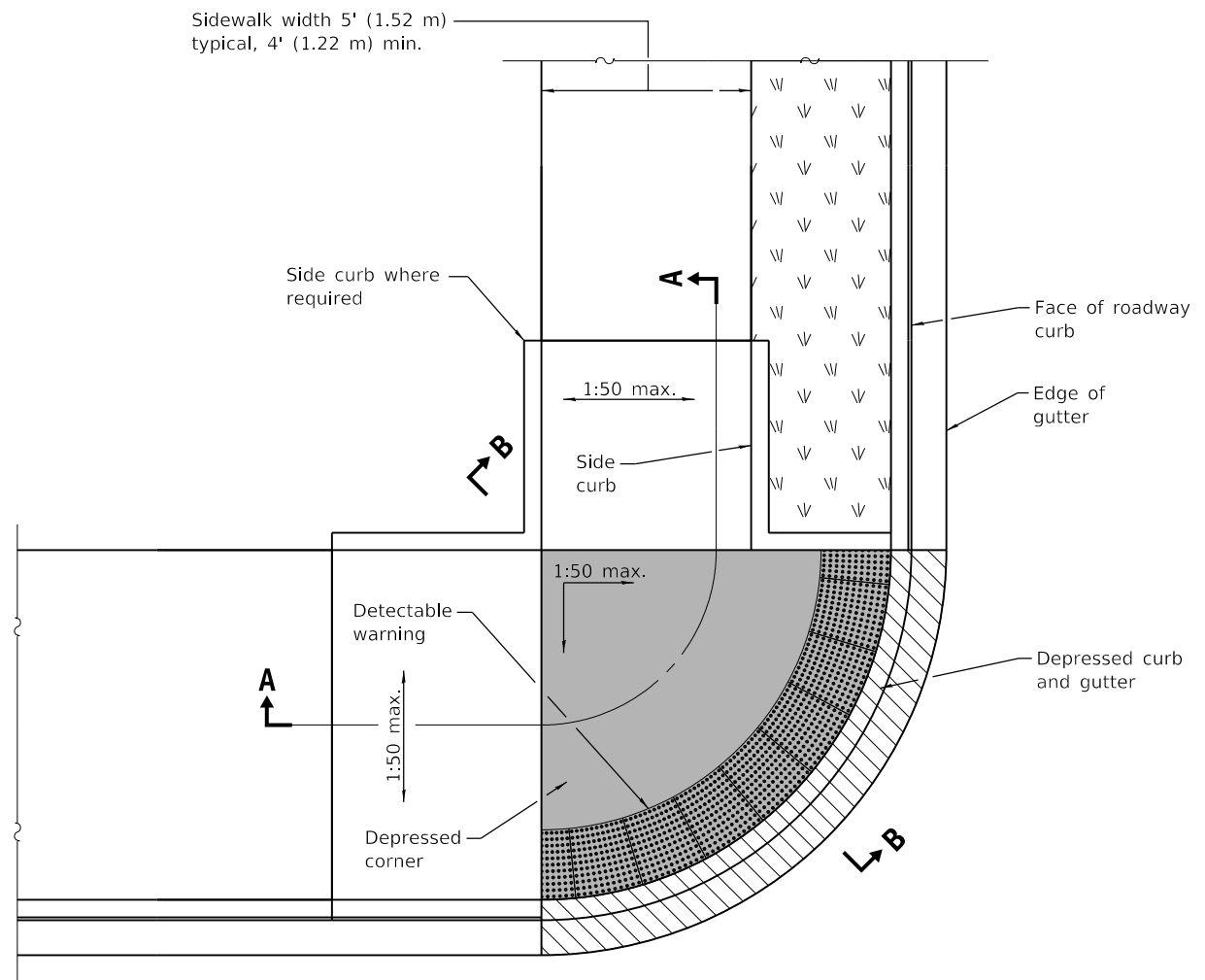
**STANDARD 424016-05**

Illinois Department of Transportation

PASSED January 1, 2019  
*Michael Bond*  
 ENGINEER OF POLICY AND PROCEDURES

APPROVED January 1, 2019  
*Joe E. Cole*  
 ENGINEER OF DESIGN AND ENVIRONMENT

ISSUED 1-1-12



**DEPRESSED CORNER**

**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.

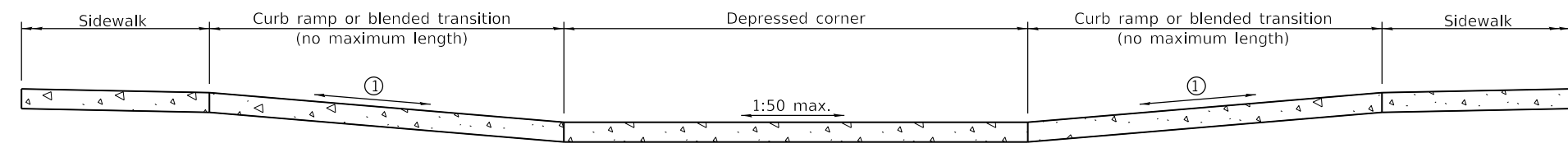
Detectable warnings are shown in their ideal tolerances but the following placement tolerances are allowed.

**Side Border** - Detectable warnings should extend the full width of the walking surface (excluding flared sides) but a border along each side up to 2 in. (50 mm) in. width is allowed.

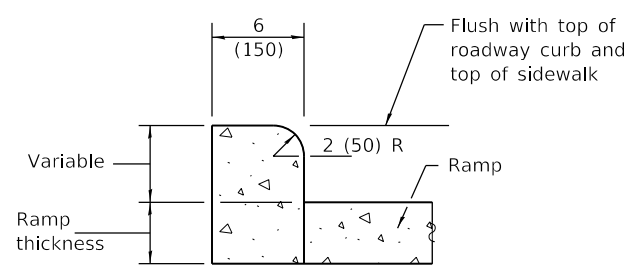
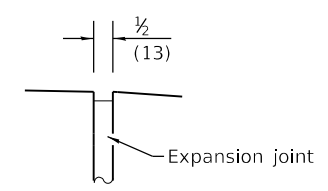
**Curb Set-Back** - Detectable warnings located at the back of curb should closely align with the curb but a gap up to 6 in. (150 mm) behind the curb is allowed.

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

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



① The running slope of a curb ramp shall be 1:20 min. and 1:12 max. The running slope of a blended transition shall be 1:20 max.



DATE	REVISIONS
1-1-19	Removed upper landings, added blended transition and detectable warning tolerances.
1-1-18	Omitted diagonal slope at turning spaces and upper landings.

**DEPRESSED CORNER FOR SIDEWALKS**

**STANDARD 424021-05**

Illinois Department of Transportation

PASSED January 1, 2019

ENGINEER OF POLICY AND PROCEDURES

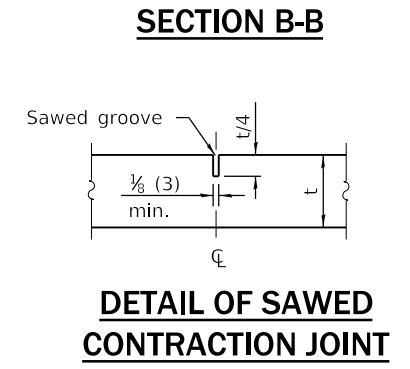
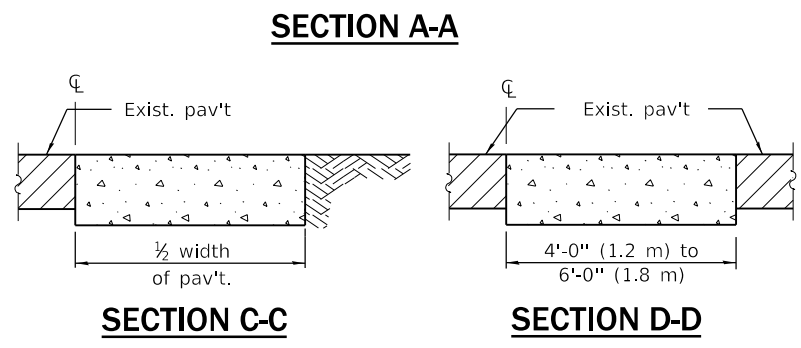
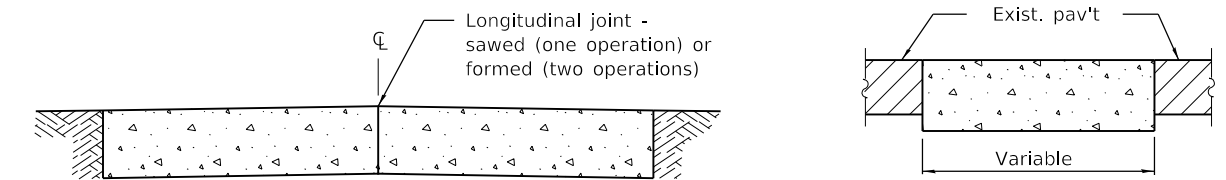
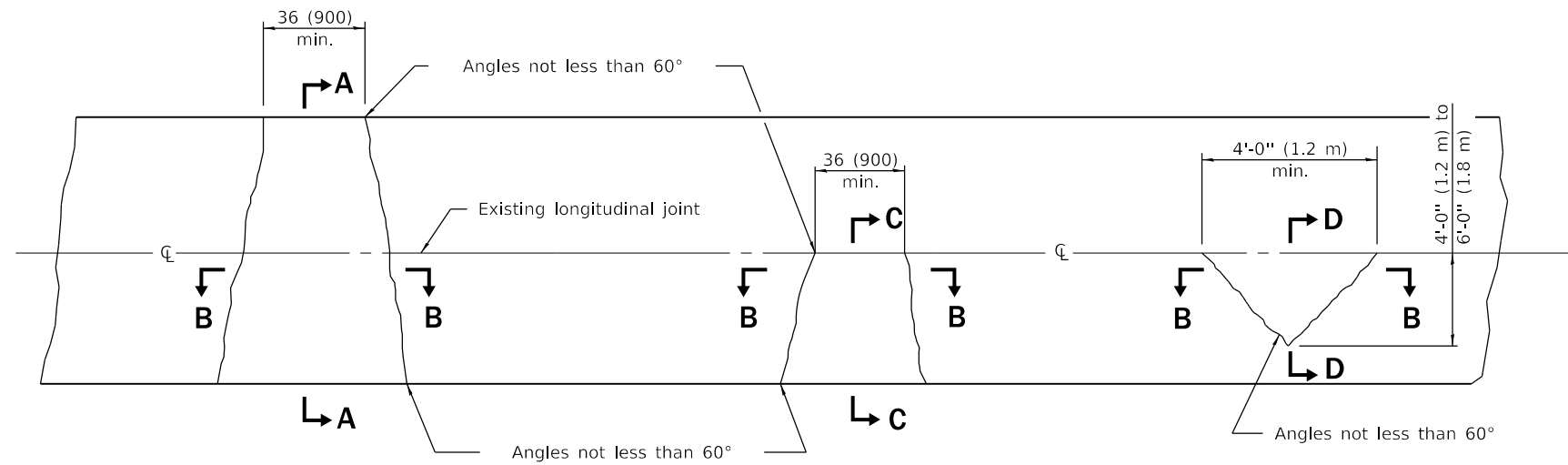
APPROVED January 1, 2019

ENGINEER OF DESIGN AND ENVIRONMENT

ISSUED 1-1-12

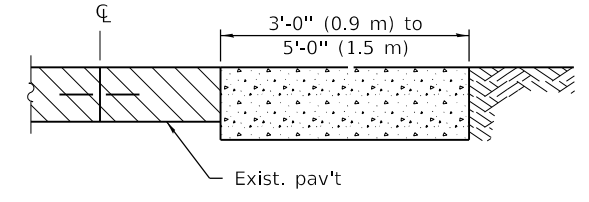
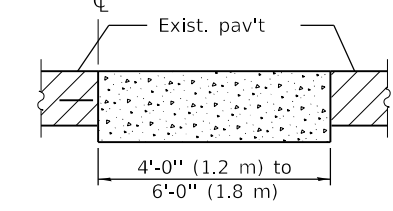
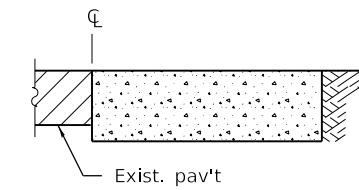
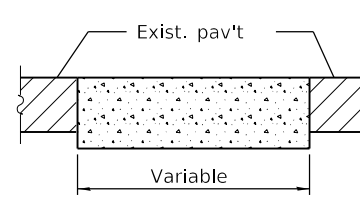
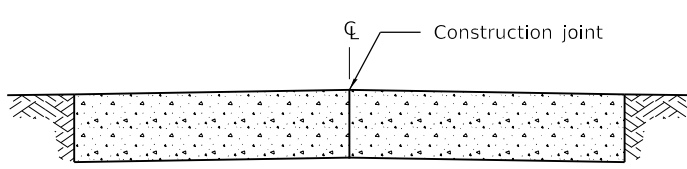
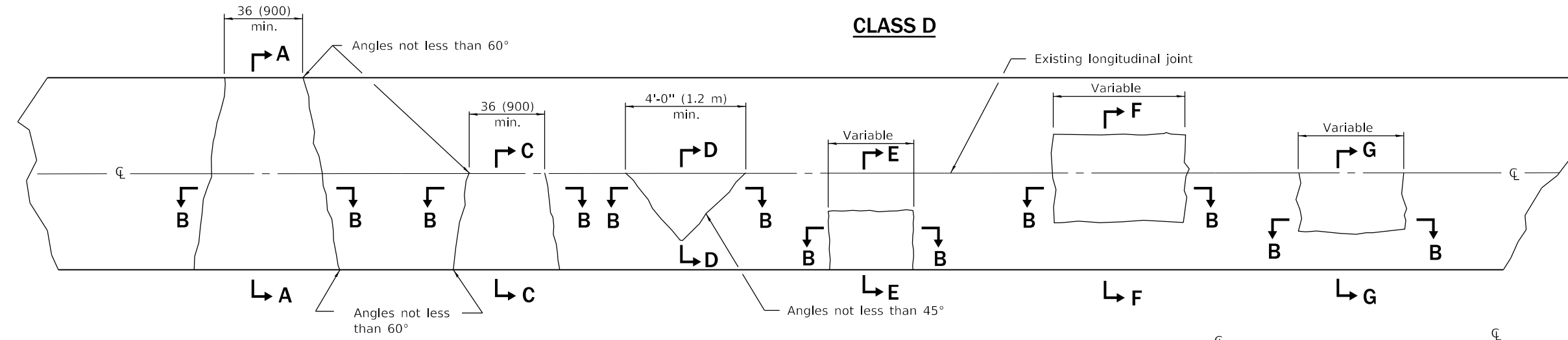


**CLASS C**



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

**CLASS D**



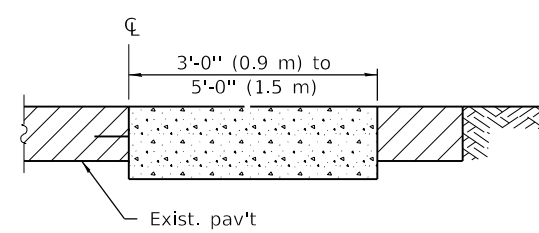
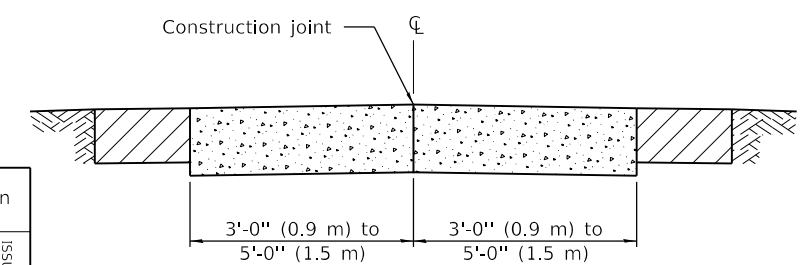
**SECTION A-A**  
(Built in two operations)

**SECTION B-B**

**SECTION C-C**

**SECTION D-D**

**SECTION E-E**



**SECTION F-F**  
(Built in two operations)

**SECTION G-G**

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

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

**CLASS C and D PATCHES**

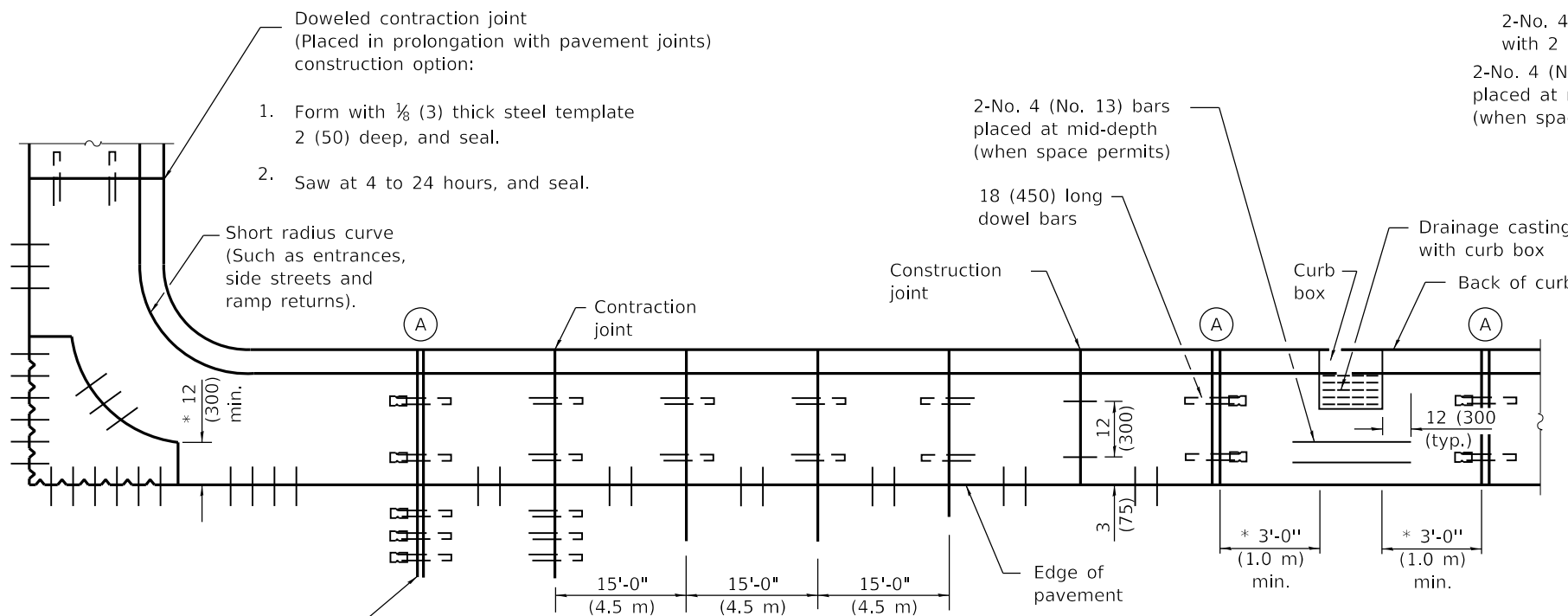
**STANDARD 442201-03**

Illinois Department of Transportation

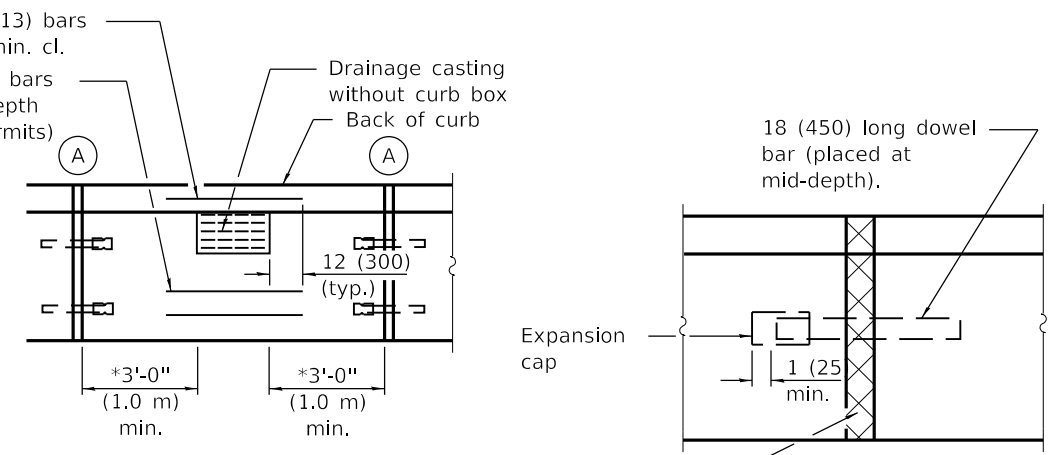
PASSED January 1, 2008  
*Scott Smith*  
 ENGINEER OF POLICY AND PROCEDURES

APPROVED January 1, 2008  
*Lee E. Han*  
 ENGINEER OF DESIGN AND ENVIRONMENT

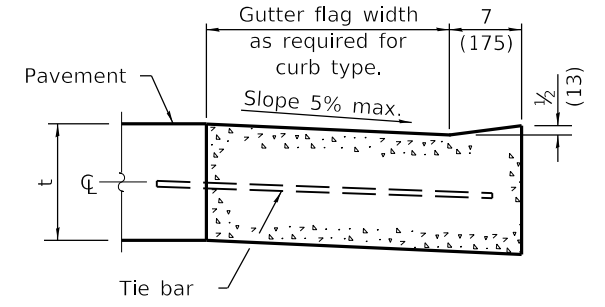
ISSUED 1-1-97



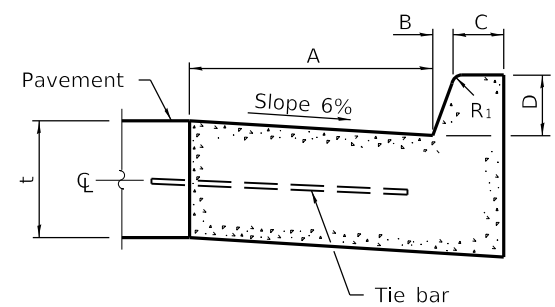
**PLAN**  
**ADJACENT TO PCC PAVEMENT OR PCC BASE COURSE**



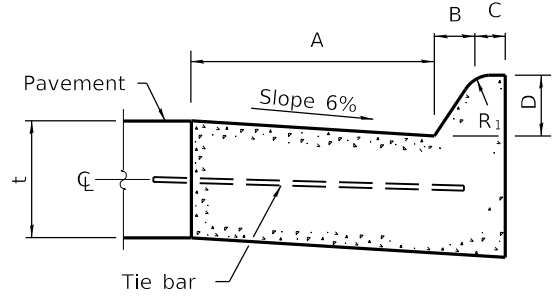
**DETAIL A**  
**EXPANSION JOINT**



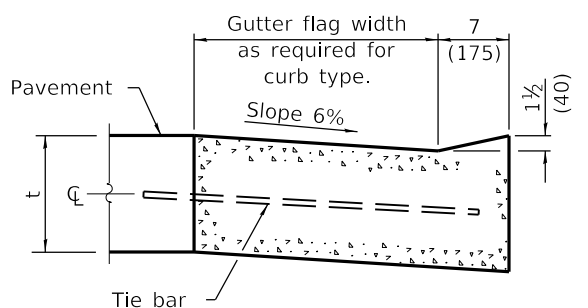
**DEPRESSED CURB ADJACENT TO CURB RAMP ACCESSIBLE TO THE DISABLED**



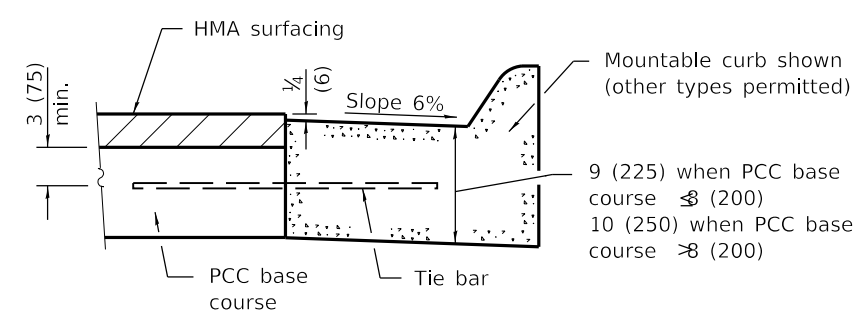
**BARRIER CURB**



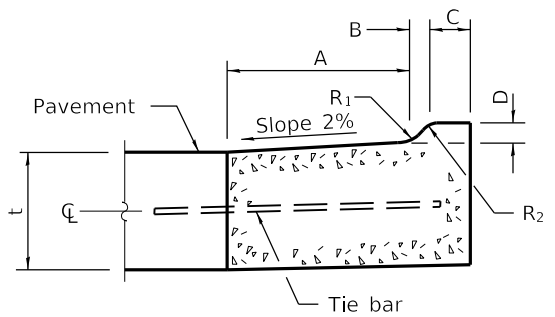
**MOUNTABLE CURB**



**DEPRESSED CURB (TYPICAL)**



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



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

TABLE OF DIMENSIONS BARRIER CURB					
TYPE	A	B	C	D	R <sub>1</sub>
B-6.06 *	6	1	6	6	1
(B-15.15)	(150)	(25)	(150)	(150)	(25)
B-6.12	12	1	6	6	1
(B-15.3)	(300)	(25)	(150)	(150)	(25)
B-6.18	18	1	6	6	1
(B-15.45)	(450)	(25)	(150)	(150)	(25)
B-6.24	24	1	6	6	1
(B-15.60)	(600)	(25)	(150)	(150)	(25)
B-9.12	12	2	5	9	1
(B-22.30)	(300)	(50)	(125)	(225)	(25)
B-9.18	18	2	5	9	1
(B-22.45)	(450)	(50)	(125)	(225)	(25)
B-9.24	24	2	5	9	1
(B-22.60)	(600)	(50)	(125)	(225)	(25)

\* For corner islands only.

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

**GENERAL NOTES**

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

t = Thickness of pavement.

Longitudinal joint tie bars shall be No. 6 (No. 19) at 36 (900) centers in accordance with details for longitudinal construction joint shown on Standard 420001.

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

The dowel bars shown in contraction joints will only be required for monolithic construction.

See Standard 606301 for details of corner islands.

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

DATE	REVISIONS
1-1-18	Revised General Note for tie bar spacing to 36 (900) cts.
1-1-15	Added B-6.06 (B-15.15) barrier curb and gutter to table (corner islands only).

**CONCRETE CURB TYPE B AND COMBINATION CONCRETE CURB AND GUTTER**  
(Sheet 1 of 2)

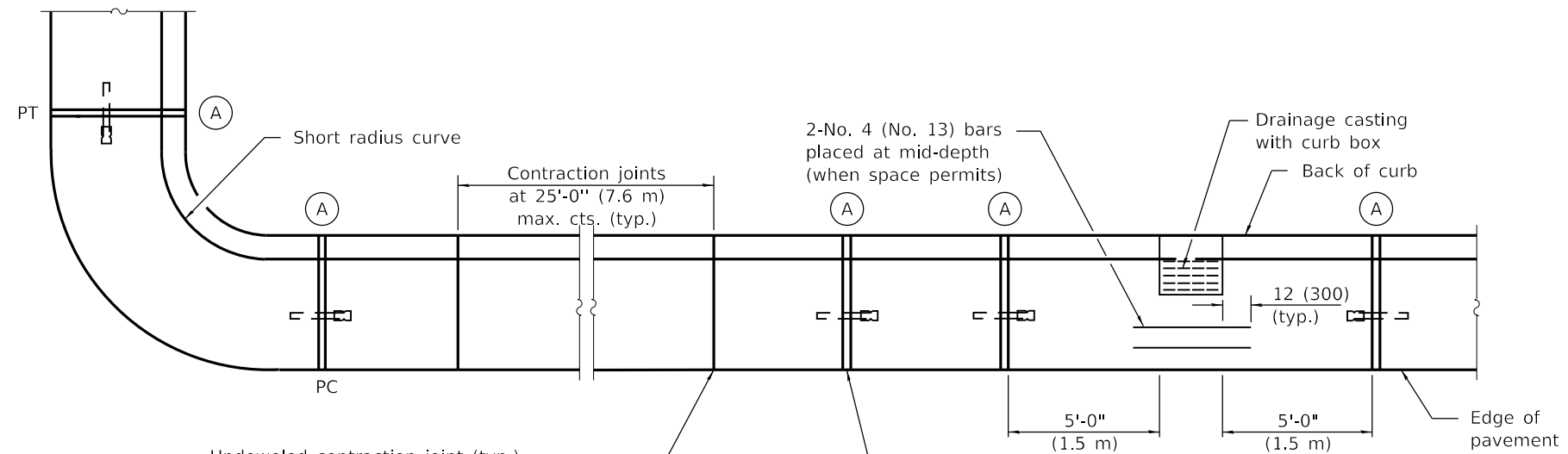
**STANDARD 606001-07**

Illinois Department of Transportation

PASSED January 1, 2018  
Michael Brand  
ENGINEER OF POLICY AND PROCEDURES

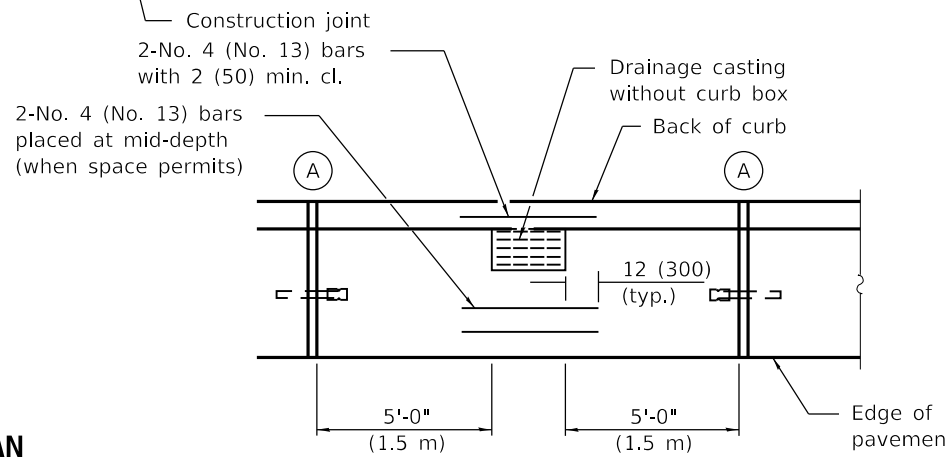
APPROVED January 1, 2018  
Maureen M. Adams  
ENGINEER OF DESIGN AND ENVIRONMENT

ISSUED 1-1-97

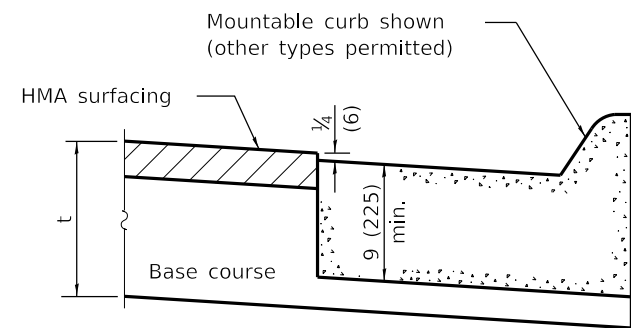


Undoweled contraction joint (typ.) construction options:

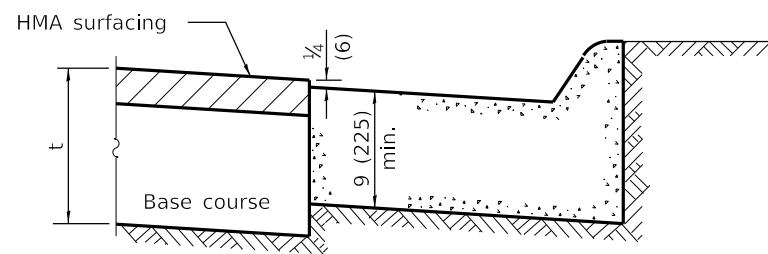
1. Form with 1/8 (3) thick steel template 2 (50) deep, and seal.
2. Saw 2 (50) deep at 4 to 24 hours, and seal.
3. Insert 3/4 (20) thick preformed joint filler full depth and width.



**PLAN**

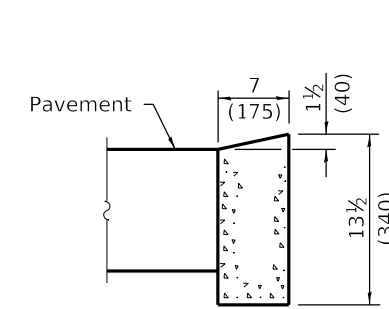


**ON DISTURBED SUBGRADE**

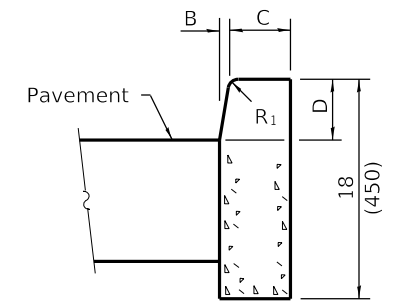


**ON UNDISTURBED SUBGRADE**

**ADJACENT TO FLEXIBLE PAVEMENT**

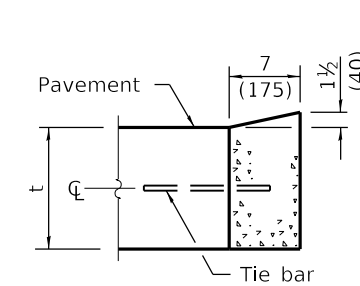


**DEPRESSED CURB**

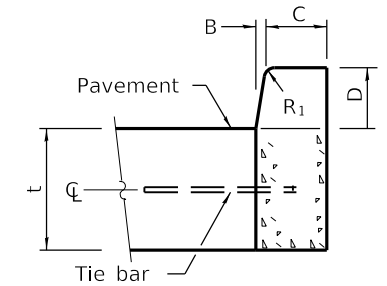


**BARRIER CURB**

**ADJACENT TO FLEXIBLE PAVEMENT**



**DEPRESSED CURB**



**BARRIER CURB**

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

**CONCRETE CURB TYPE B**

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

(Sheet 2 of 2)

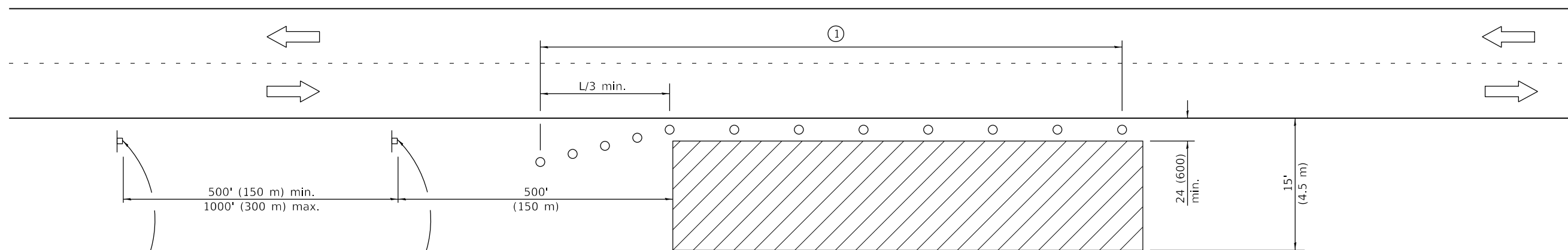
**STANDARD 606001-07**

Illinois Department of Transportation

PASSED January 1, 2018  
*Michael Beard*  
 ENGINEER OF POLICY AND PROCEDURES

APPROVED January 1, 2018  
*Marcus M. Beck*  
 ENGINEER OF DESIGN AND ENVIRONMENT

ISSUED 1-1-97



For contract construction projects

W20-1103(0)-48

W21-1(0)-48

For maintenance and utility projects

W20-1(0)-48

**TYPICAL APPLICATIONS**

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

**SYMBOLS**

- Work area
- Sign
- Cone, drum or barricade

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

**GENERAL NOTES**

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

Calculate L as follows:

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

W = Width of offset in feet (meters).  
S = Normal posted speed mph (km/h).

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

DATE	REVISIONS
1-1-14	Revised workers sign number to agree with current MUTCD.
1-1-13	Omitted text 'WORKERS' sign.

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

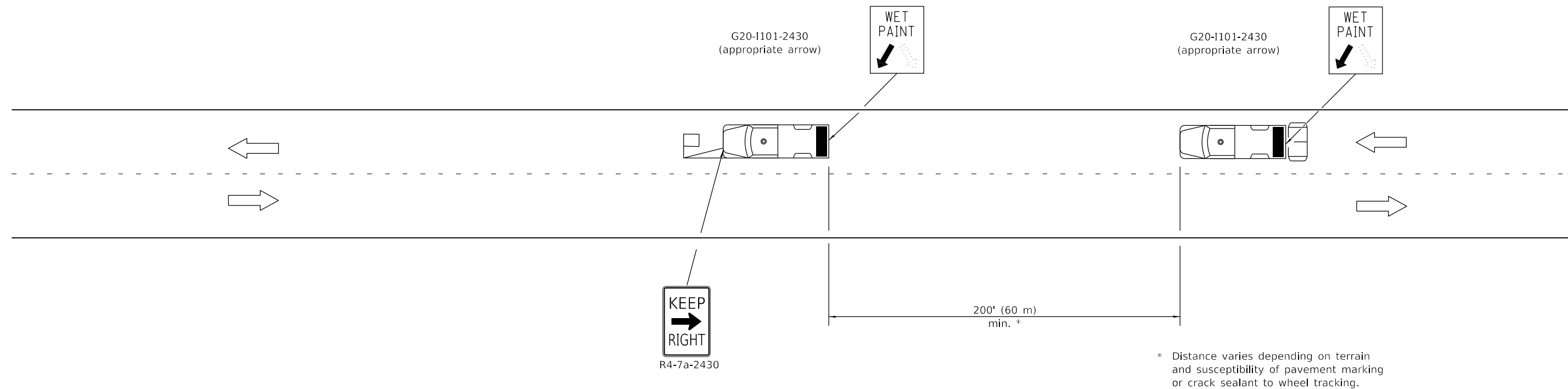
**STANDARD 701006-05**

Illinois Department of Transportation

PASSED January 1, 2014  
  
 ENGINEER OF SAFETY ENGINEERING

APPROVED January 1, 2014  
  
 ENGINEER OF DESIGN AND ENVIRONMENT

ISSUED 1-1-97


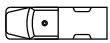




\* Distance varies depending on terrain and susceptibility of pavement marking or crack sealant to wheel tracking.

**TYPICAL APPLICATIONS**

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

**SYMBOLS**

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

**GENERAL NOTES**

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

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

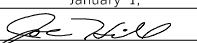
All dimensions are in inches (millimeters) unless otherwise shown.

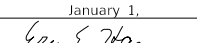
DATE	REVISIONS
1-1-09	Switched units to English (metric). Omitted Pass With Care sign.
1-1-00	Elim. speed restrictions in Standard title.

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

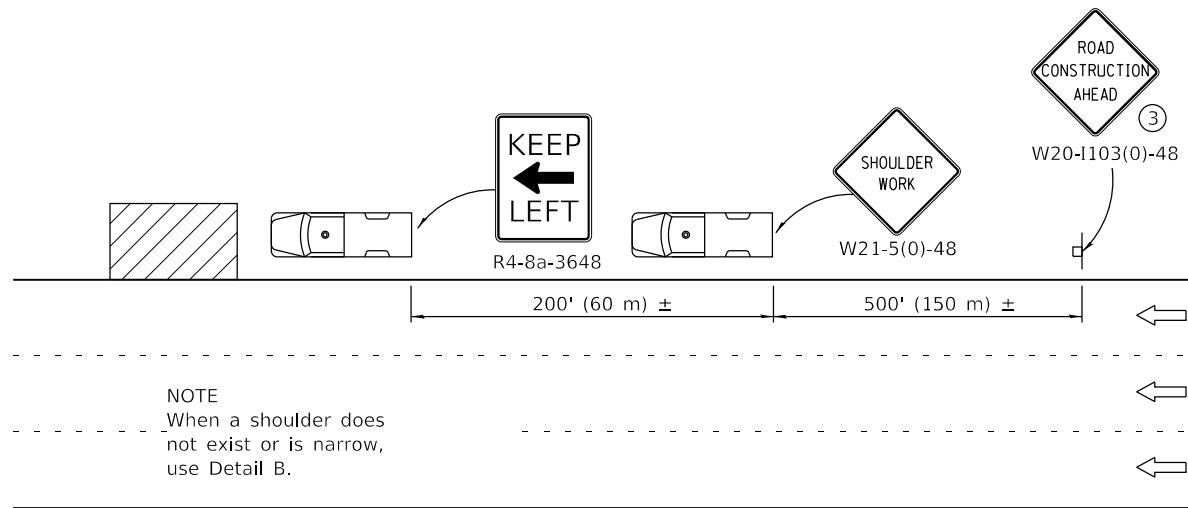
**STANDARD 701311-03**

Illinois Department of Transportation

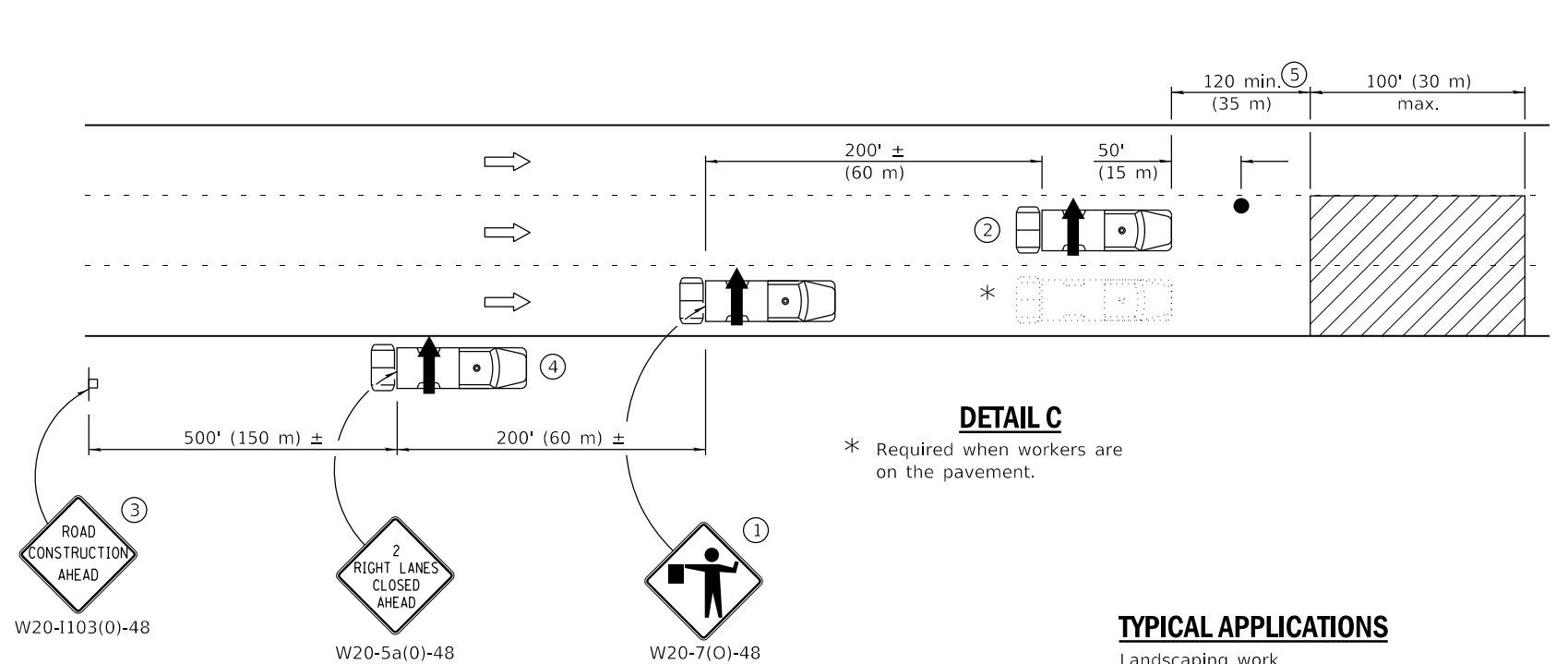
PASSED January 1, 2009  
  
 ENGINEER OF OPERATIONS

APPROVED January 1, 2009  
  
 ENGINEER OF DESIGN AND ENVIRONMENT

ISSUED 1-1-97



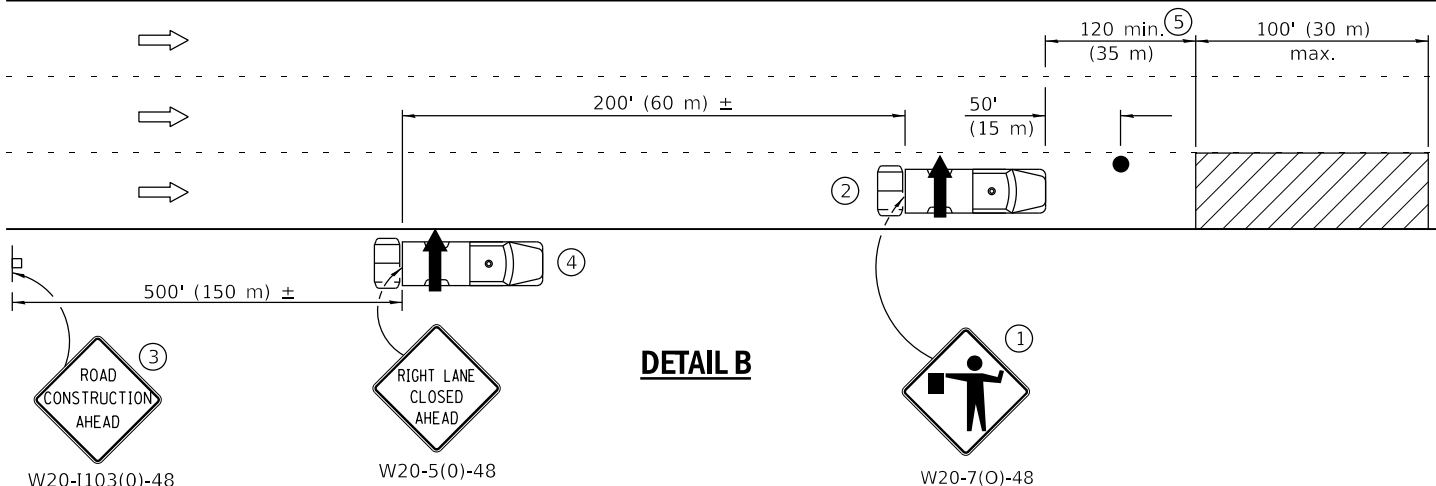
**DETAIL A**



**DETAIL C**

**TYPICAL APPLICATIONS**

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



**DETAIL B**

- ① Flagger is required when workers are on the pavement.
- ② For striping operations only. See sign arrow detail on this standard.
- ③ For stationary operations which are on the roadway or shoulder, greater than 15 minutes and up to 1 hour.
- ④ Omit truck, attenuator and arrow board when no shoulder exists due to curb and gutter.
- ⑤ The distance between the work and the lead truck may vary according to terrain or paint/crack sealing time.



G20-1101-2430 (appropriate arrow) ② (when striping only)

**GENERAL NOTES**

This Standard is used where any vehicle, equipment, workers or their activities will require: 1) stationary operations up to 1 hour, or 2) a continuous or intermittent moving operation where the average speed of movement is greater than 1 mph (2 km/h).

This Standard is also applicable when work is being performed in the left lane(s) or on the median shoulder. Under these conditions, KEEP RIGHT signs shall be substituted for KEEP LEFT signs and arrow board indications shall be directed to the right.

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

**SYMBOLS**

- ↑ Arrow board
- ▨ Work area
- Truck with flashing amber light
- Truck/Trailer mounted attenuator
- Flagger with traffic control sign
- Sign

DATE	REVISIONS
1-1-17	Revised 'NOTE' on DETAIL A to use DETAIL B in lieu of DETAIL C.
4-1-16	Rev. gen. notes. Added note ⑤. Rev. dist. between work and lead truck.

**LANE CLOSURE, MULTILANE, INTERMITTENT OR MOVING OPER., FOR SPEEDS ≤ 40 MPH**

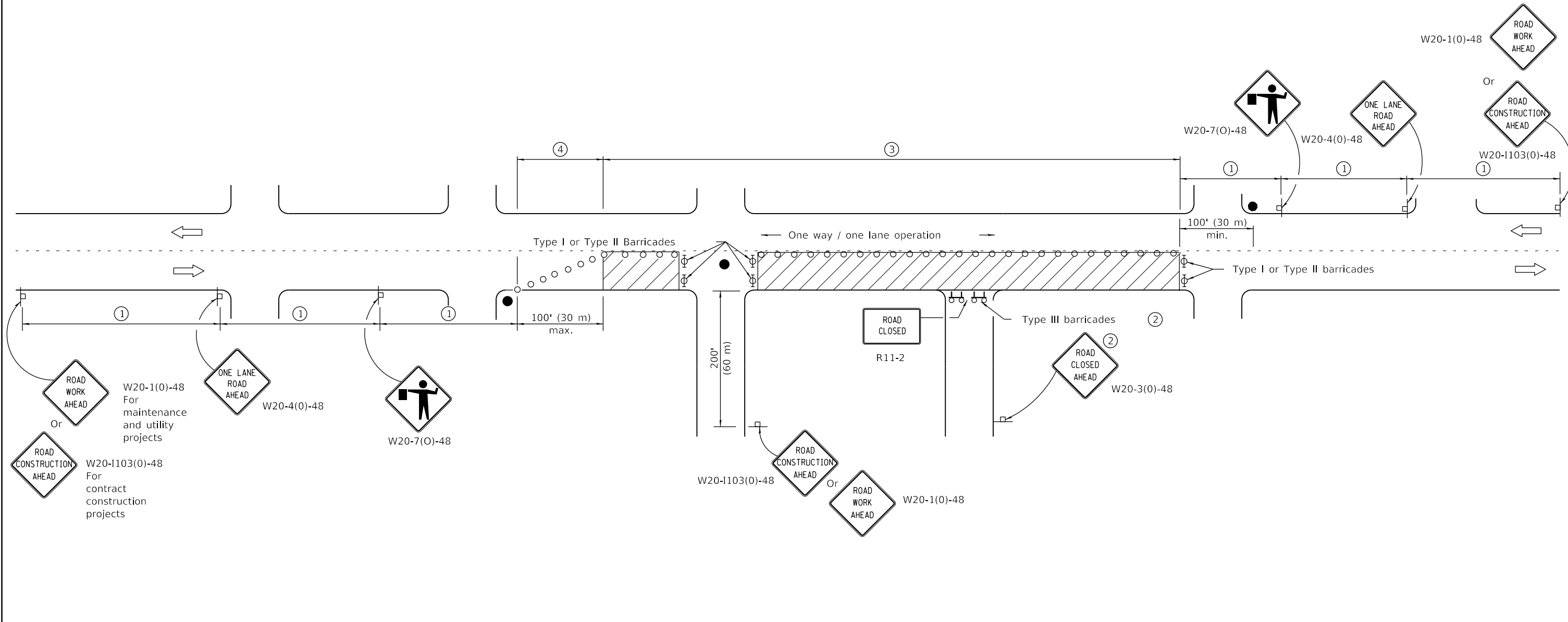
**STANDARD 701427-05**

Illinois Department of Transportation

PASSED January 1, 2017

APPROVED January 1, 2017

ISSUED 1-1-17



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

**SYMBOLS**

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

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

**GENERAL NOTES**

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

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

Illinois Department of Transportation

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

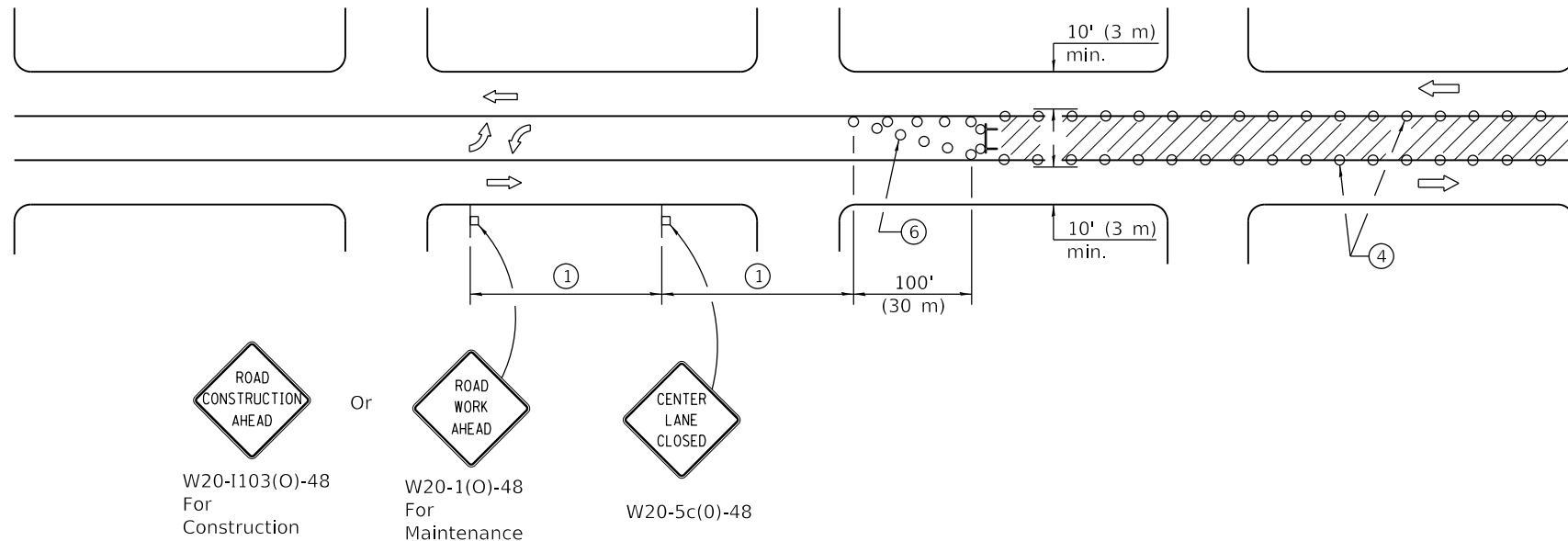
APPROVED January 1, 2011  
*[Signature]*  
 ENGINEER OF DESIGN AND ENVIRONMENT

ISSUED 1-1-97

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

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

**STANDARD 701501-06**



W20-1103(O)-48  
For  
Construction

Or

W20-1(O)-48  
For  
Maintenance

W20-5c(O)-48

### CASE I

(Signs required for both directions)

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

### SYMBOLS

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

- ① Refer to SIGN SPACING TABLE for distances.
- ② Required for speeds > 40 mph (70 km/h).
- ③ Required if work exceeds 500' (164 m) or 1 block.
- ④ Cones at 25' (8 m) centers for 250' (75 m) on approach. Additional cones may be placed at 50' (15 m) centers. When drums or type I or II barricades are used, the interval between devices may be doubled.
- ⑤ For approved sideroad closures.
- ⑥ Cones, drums or barricades at 20' (6 m) centers in taper.
- ⑦ Use flagger sign only when flagger is present.

### GENERAL NOTES

This Standard is used to close one lane of an urban, two lane, two way roadway with a bidirectional turn lane.

Case I applies when no workers are present. When workers are present, two lanes shall be closed and traffic control shall be according to Standard 701501.

Calculate L as follows:

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

W = Width of offset in feet (meters).  
S = Normal posted speed mph (km/h).

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

Illinois Department of Transportation

APPROVED January 1, 2019  
*Lyndee Watt*  
ENGINEER OF SAFETY PROG. AND ENGINEERING

APPROVED January 1, 2019  
*J. E. ...*  
ENGINEER OF DESIGN AND ENVIRONMENT

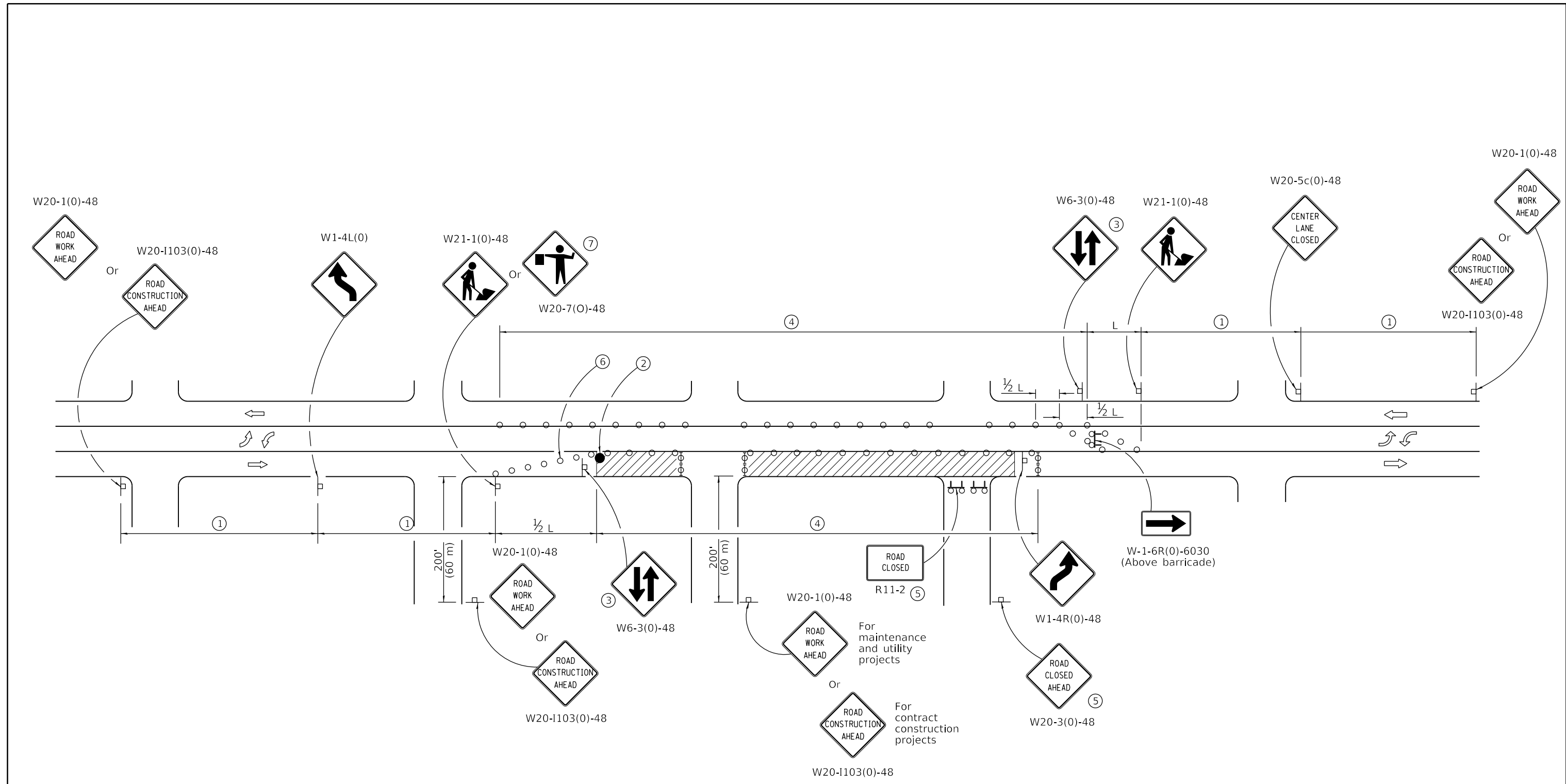
ISSUED 1-1-01

DATE	REVISIONS
1-1-19	Revised to allow cones at night.
1-1-18	Corrected sign number for TWO WAY TRAFFIC sign for CASE II.

**URBAN LANE CLOSURE,  
2L, 2W, WITH BIDIRECTIONAL  
LEFT TURN LANE**  
(Sheet 1 of 2)

**STANDARD 701502-09**





**CASE II**

Illinois Department of Transportation

APPROVED January 1, 2019  
*Cynthia Watt*  
 ENGINEER OF SAFETY PROG. AND ENGINEERING

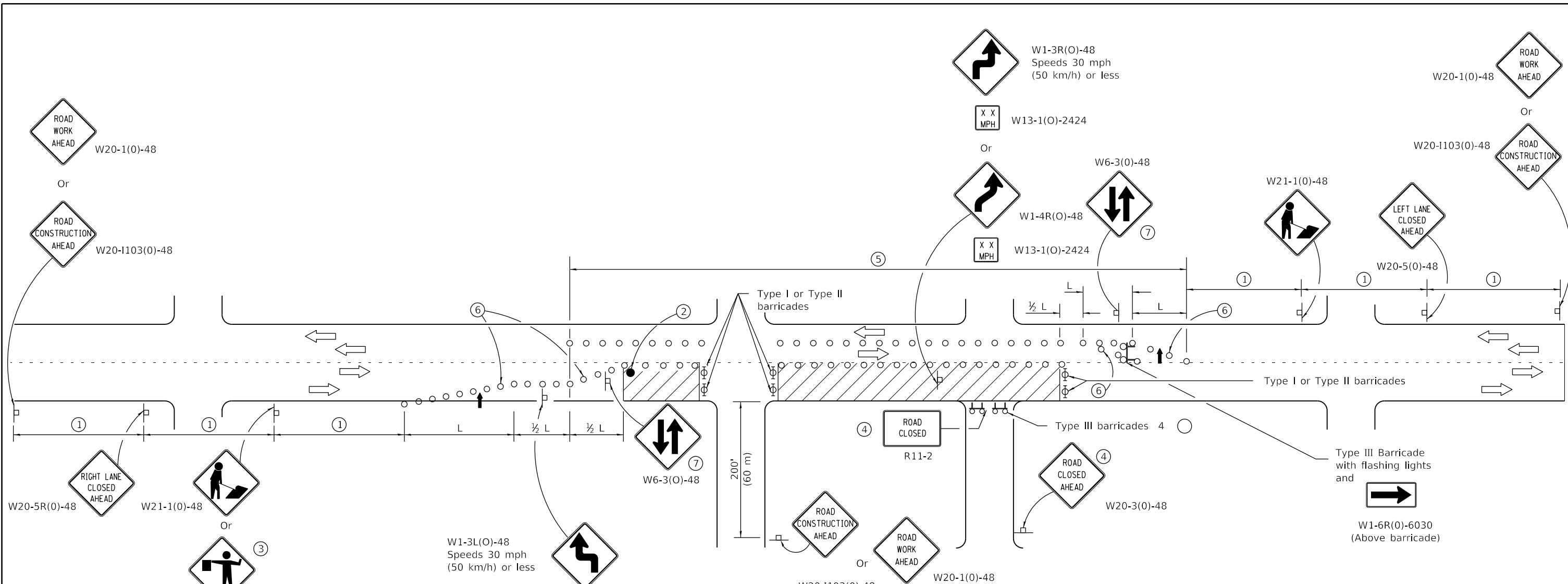
APPROVED January 1, 2019  
*J. E. ...*  
 ENGINEER OF DESIGN AND ENVIRONMENT

ISSUED 1-1-01

**URBAN LANE CLOSURE,  
 2L, 2W, WITH BIDIRECTIONAL  
 LEFT TURN LANE**

(Sheet 2 of 2)

**STANDARD 701502-09**



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

- W1-3L(O)-48  
Speeds 30 mph (50 km/h) or less
- W13-1(O)-2424
- Or
- W1-4L(O)-48
- W13-1(O)-2424

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

- ① Refer to SIGN SPACING TABLE for distances.
- ② Required for speeds > 40 mph.
- ③ Use flagger sign only when flagger is present.
- ④ For approved sideroad closures.
- ⑤ Cones at 25' (8 m) centers for 250' (75 m). Additional cones may be placed at 50' (15 m) centers. When drums or Type I or Type II barricades are used, the interval between devices may be doubled.
- ⑥ Cones, drums or barricades at 20' (6 m) centers in taper.
- ⑦ Repeat every 1 mile (1.6 km).

**GENERAL NOTES**

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

Calculate L as follows:

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

W = Width of offset in feet (meters).  
S = Normal posted speed mph (km/h).

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

Illinois Department of Transportation

PASSED April 1, 2016  
*[Signature]*  
ENGINEER OF SAFETY ENGINEERING

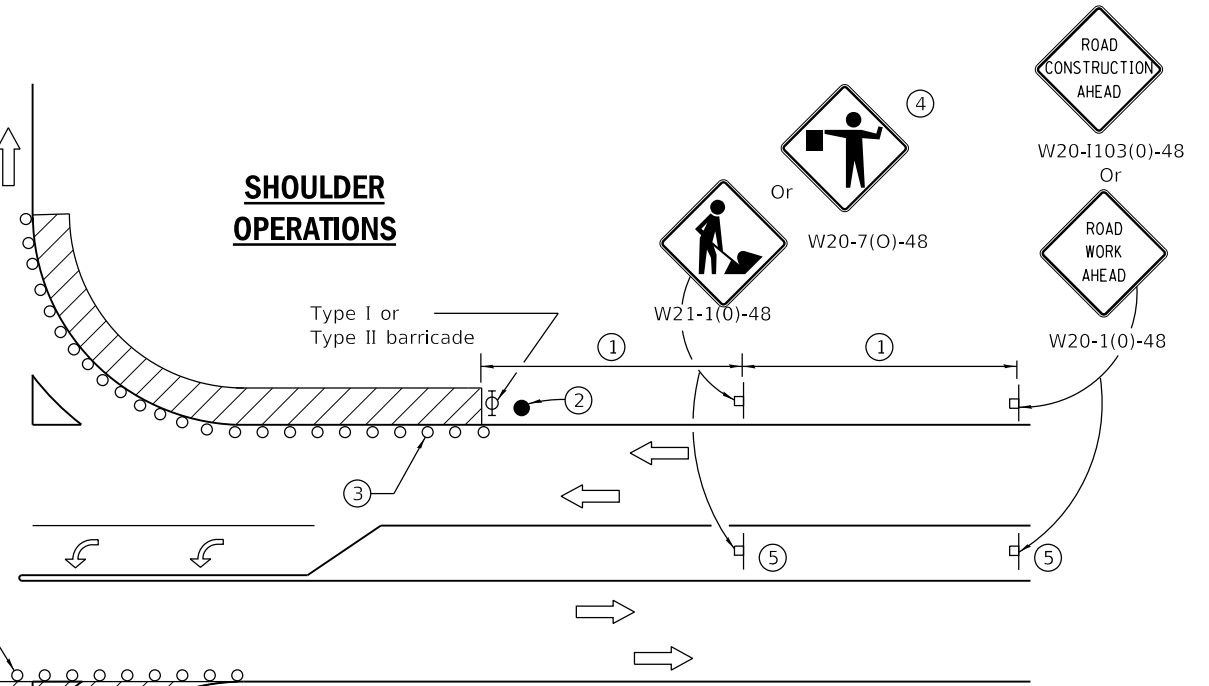
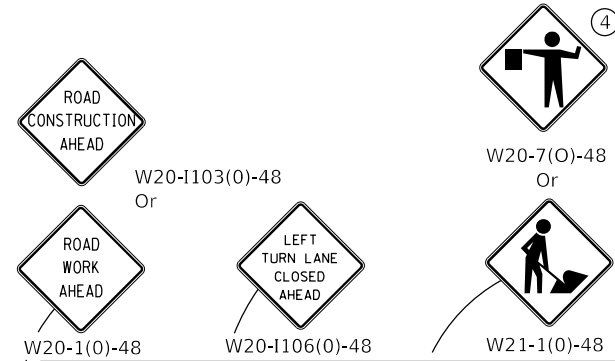
APPROVED April 1, 2016  
*[Signature]*  
ENGINEER OF DESIGN AND ENVIRONMENT

ISSUED 1-1-15

DATE	REVISIONS
4-1-16	Moved first reverse curve/turn sign to middle of tangent.
1-1-15	New Standard.

**URBAN HALF ROAD CLOSURE, MULTILANE, 2W WITH MOUNTABLE MEDIAN**

**STANDARD 701611-01**



**LEFT TURN LANE OR CENTER MEDIAN OPERATIONS**

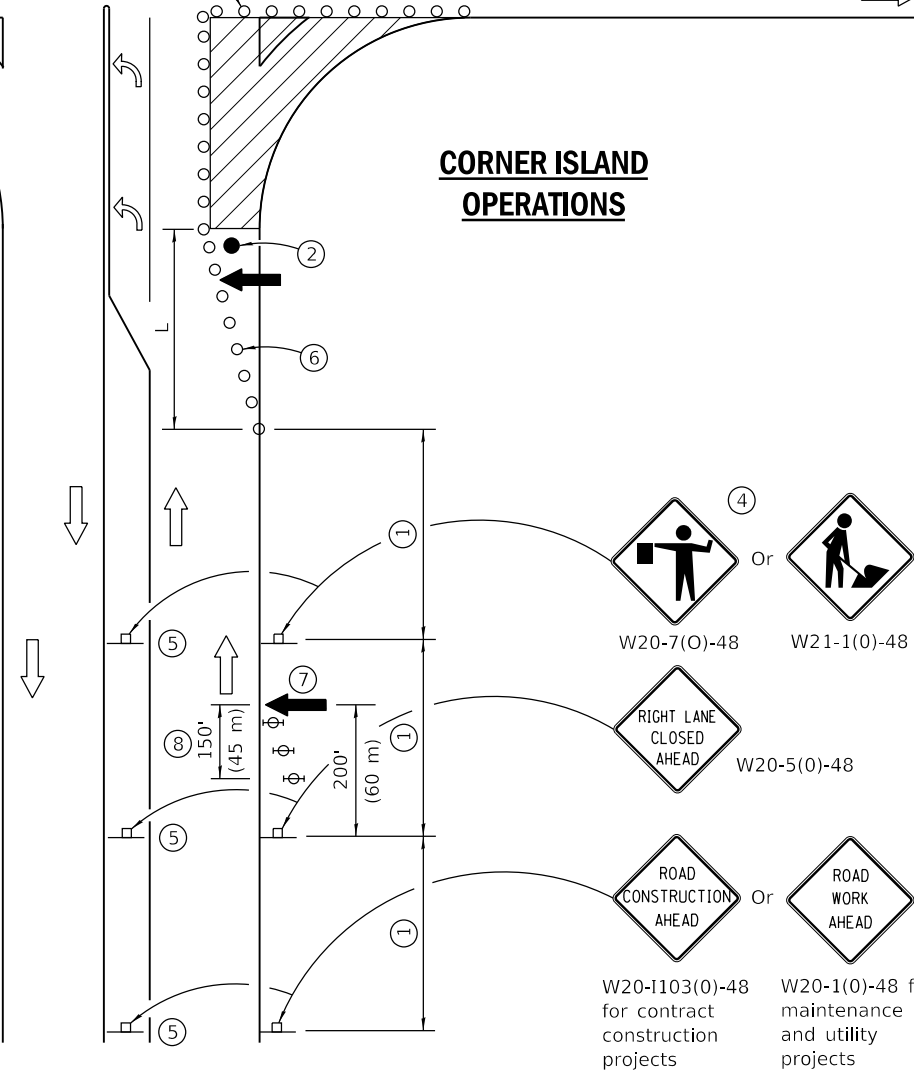
- ① Refer to SIGN SPACING TABLE for distance.
- ② Required for speed > 40 mph.
- ③ Cones at 25' (8 m) centers for 250' (75 m). Additional cones may be placed at 50' (15 m) centers. When drums or Type I or Type II barricades are used, the interval between devices may be doubled.
- ④ Use flagger sign only when flagger is present.
- ⑤ Omit this sign when median is less than 10' (3 m) or for bi-directional turn lanes.
- ⑥ Cones, drums or barricades at 20' (6 m) centers in taper.
- ⑦ Advanced arrow board required for speeds > 45 mph.
- ⑧ Three Type II barricades, drums or vertical barricades at 50' (15 m) centers.

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

**SYMBOLS**

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

**CORNER ISLAND OPERATIONS**



**GENERAL NOTES**

This Standard is used where at any time, day or night, any vehicle, equipment, workers or their activities encroach on the pavement during shoulder operations or where construction requires lane closures in an urban area.

Calculate L as follows:

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

W = Width of offset in feet (meters).

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

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

DATE	REVISIONS
4-1-16	Corrected sign number for LEFT TURN LANE CLOSED AHEAD.
1-1-14	Added devices at arrow board upstream from taper.
	Rev. workers sign number.

**URBAN LANE CLOSURE, MULTILANE INTERSECTION**

**STANDARD 701701-10**

Illinois Department of Transportation

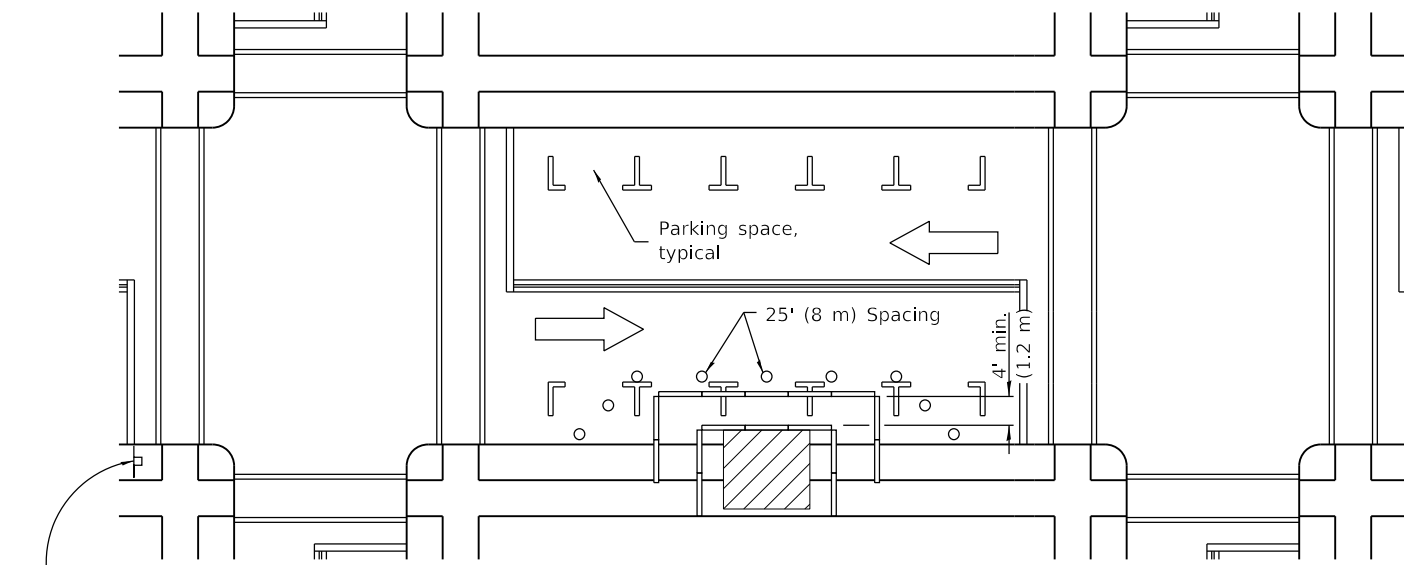
PASSED April 1, 2016

*[Signature]*  
ENGINEER OF SAFETY ENGINEERING

APPROVED April 1, 2016

*[Signature]*  
ENGINEER OF DESIGN AND ENVIRONMENT

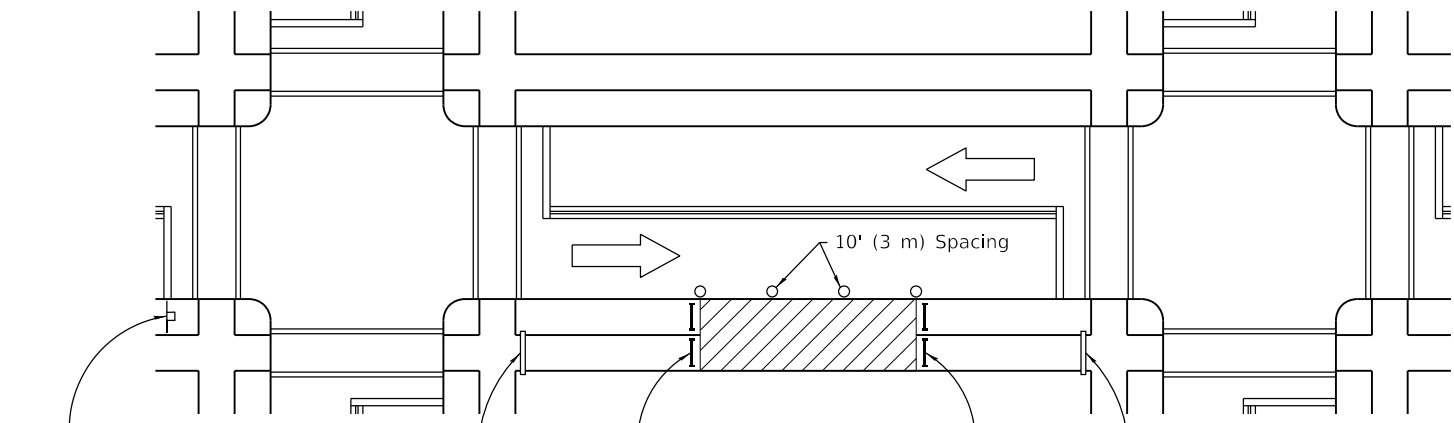
ISSUED 1-1-97



① ROAD CONSTRUCTION AHEAD  
W20-1103(0)-48 for contract construction projects

Or  
① ROAD WORK AHEAD  
W20-1(0)-48 for maintenance and utility projects

**SIDEWALK DIVERSION**



① ROAD CONSTRUCTION AHEAD  
W20-1103(0)-48 for contract construction projects

Or  
① ROAD WORK AHEAD  
W20-1(0)-48 for maintenance and utility projects

SIDEWALK CLOSED  
USE OTHER SIDE  
R11-1102-2430

SIDEWALK CLOSED  
R11-1101-2418

SIDEWALK CLOSED  
USE OTHER SIDE  
R11-1102-2430

**SIDEWALK CLOSURE**

① Omit whenever duplicated by road work traffic control.

**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 or 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 on Standard 701901.

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

**SYMBOLS**

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

Illinois Department of Transportation

PASSED April 1, 2016  
*[Signature]*  
ENGINEER OF SAFETY ENGINEERING

APPROVED April 1, 2016  
*[Signature]*  
ENGINEER OF DESIGN AND ENVIRONMENT

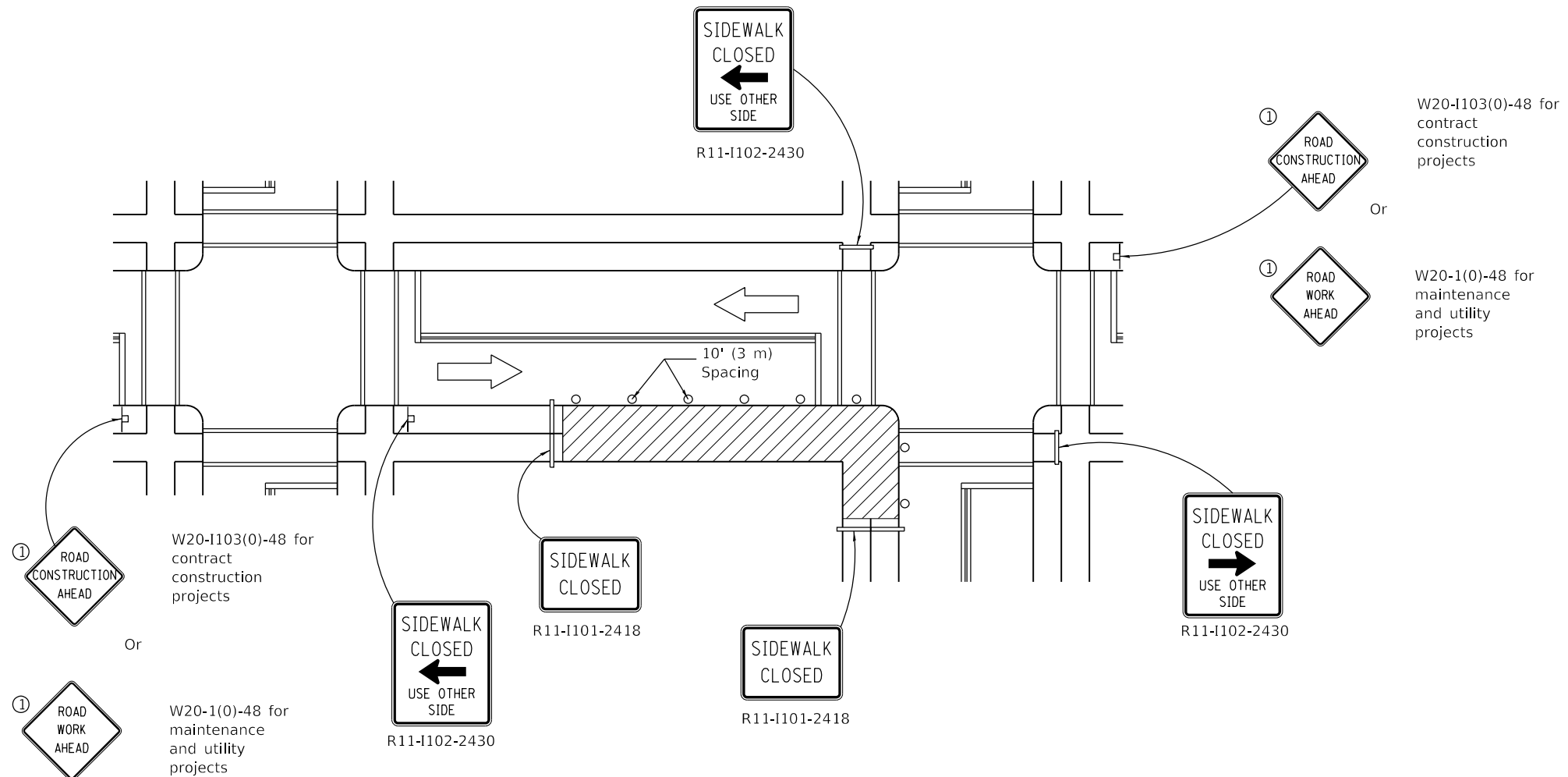
ISSUED 1-1-97

DATE	REVISIONS
4-1-16	Omitted orange safety fence from standard as this is covered in the std. spec.
1-1-12	Added SIDEWALK DIVERSION. Modified appearance of plan views. Renamed Std.

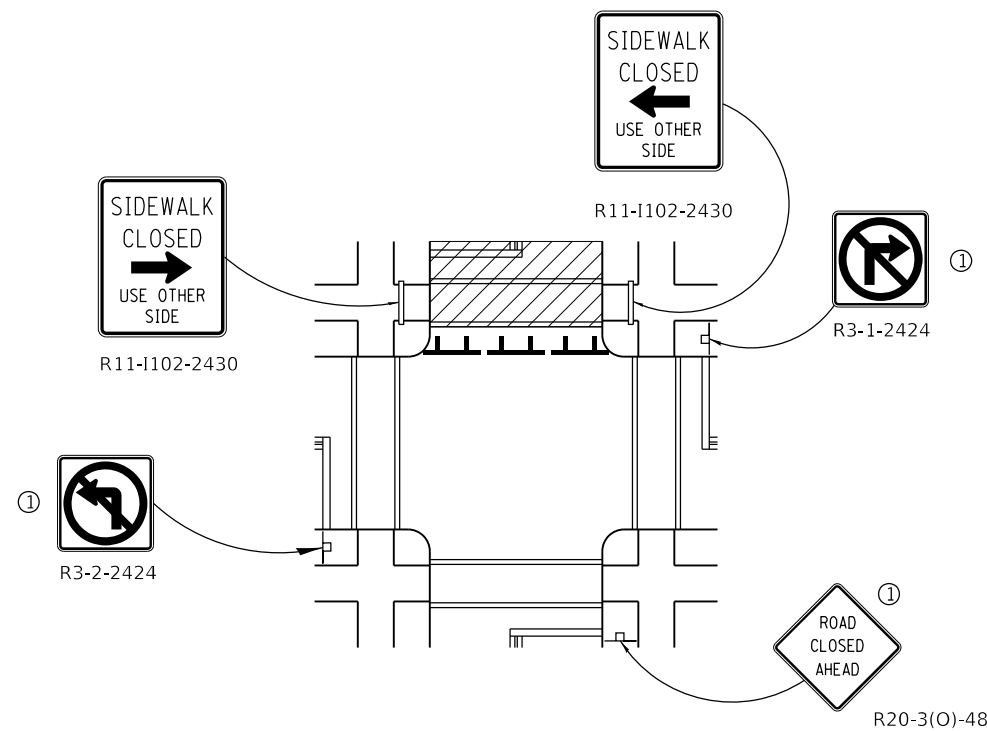
**SIDEWALK, CORNER OR CROSSWALK CLOSURE**

(Sheet 1 of 2)

**STANDARD 701801-06**



**CORNER CLOSURE**



**CROSSWALK CLOSURE**

W20-I103(0)-48 for contract construction projects

Or

W20-1(0)-48 for maintenance and utility projects

W20-I103(0)-48 for contract construction projects

Or

W20-1(0)-48 for maintenance and utility projects

**SIDEWALK, CORNER OR CROSSWALK CLOSURE**

(Sheet 2 of 2)

**STANDARD 701801-06**

Illinois Department of Transportation

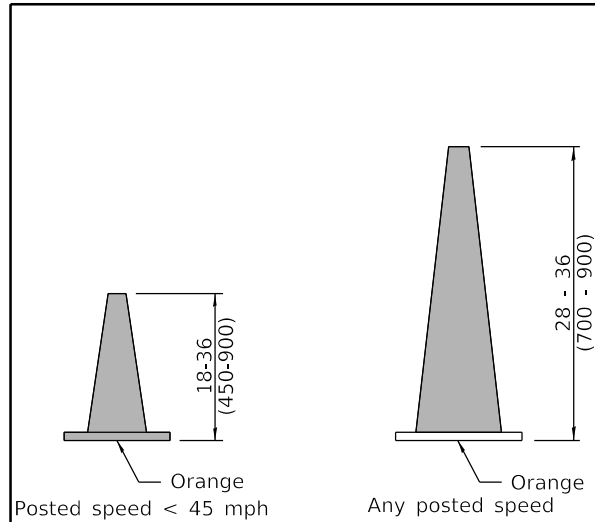
PASSED April 1, 2016

*[Signature]*  
ENGINEER OF SAFETY ENGINEERING

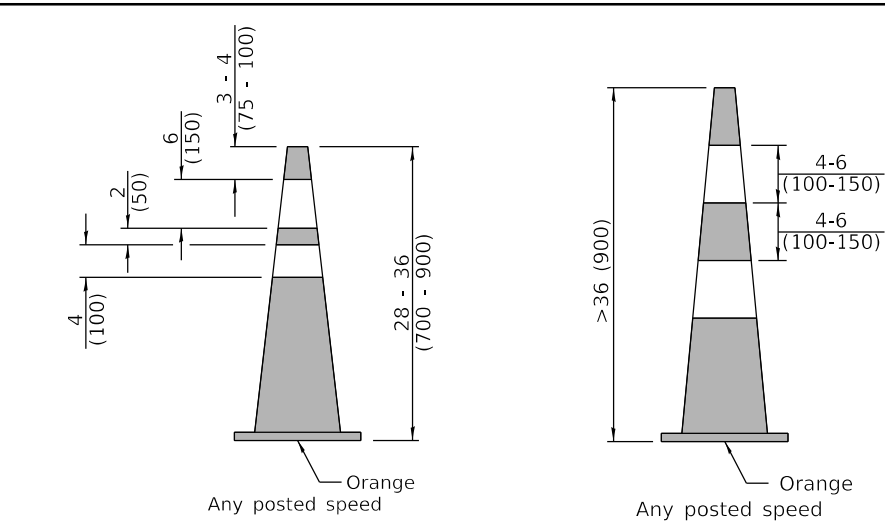
APPROVED April 1, 2016

*[Signature]*  
ENGINEER OF DESIGN AND ENVIRONMENT

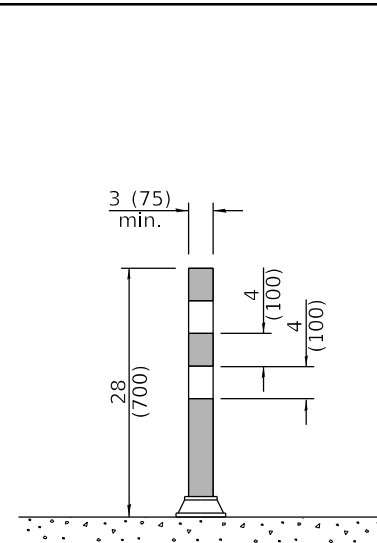
ISSUED 1-1-97



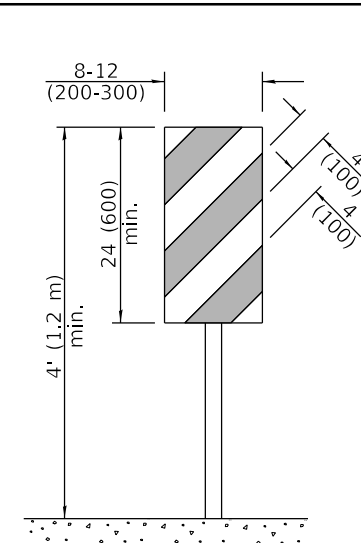
**DAYTIME USE**



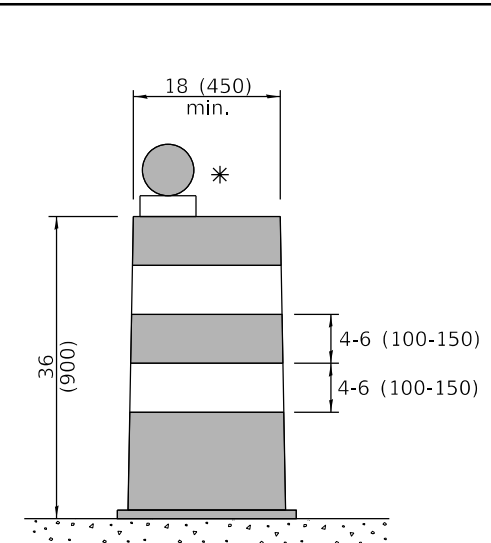
**DAY OR NIGHTTIME USE**



**TUBULAR MARKER**

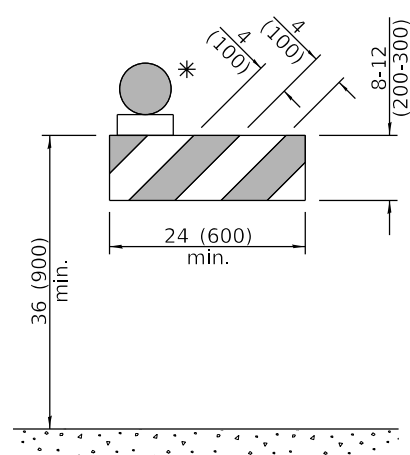


**VERTICAL PANEL  
POST MOUNTED**

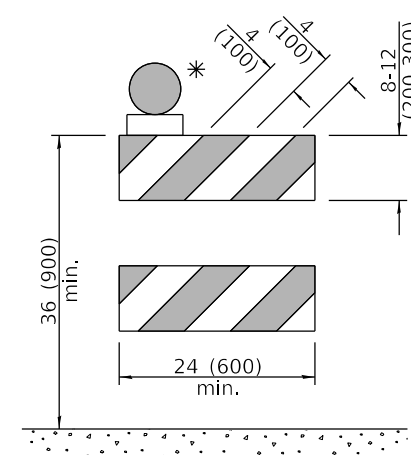


**DRUM**

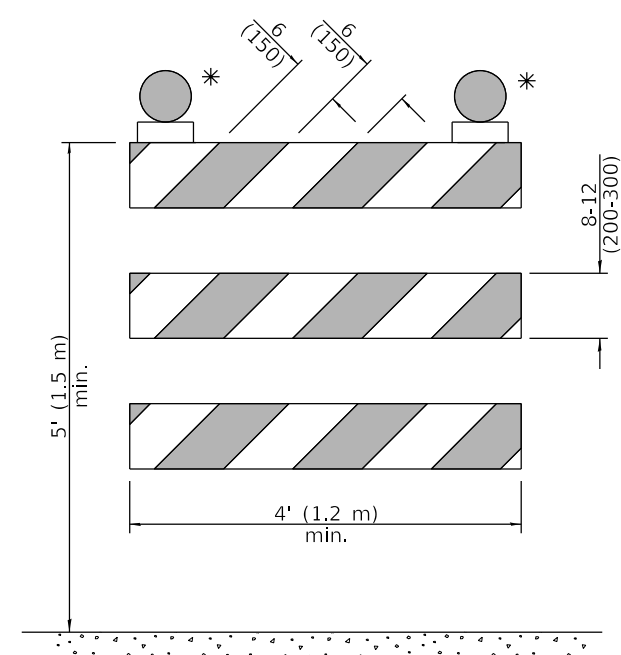
**CONES**



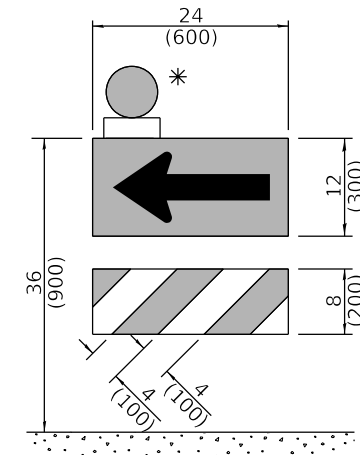
**TYPE I BARRICADE**



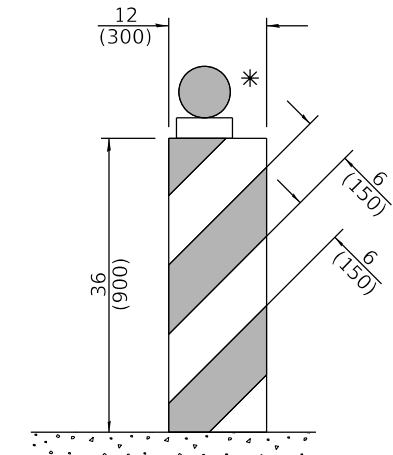
**TYPE II BARRICADE**



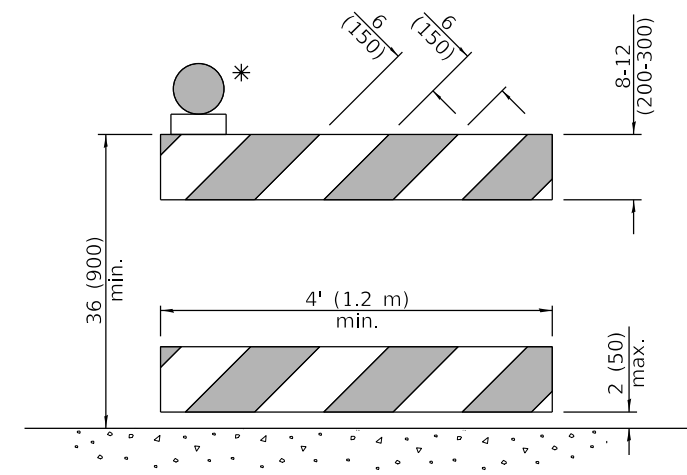
**TYPE III BARRICADE**



**DIRECTION INDICATOR  
BARRICADE**



**VERTICAL BARRICADE**



**DETECTABLE PEDESTRIAN  
CHANNELIZING BARRICADE**

\* Warning lights (if required)

**GENERAL NOTES**

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

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

**TRAFFIC CONTROL DEVICES**

(Sheet 1 of 3)

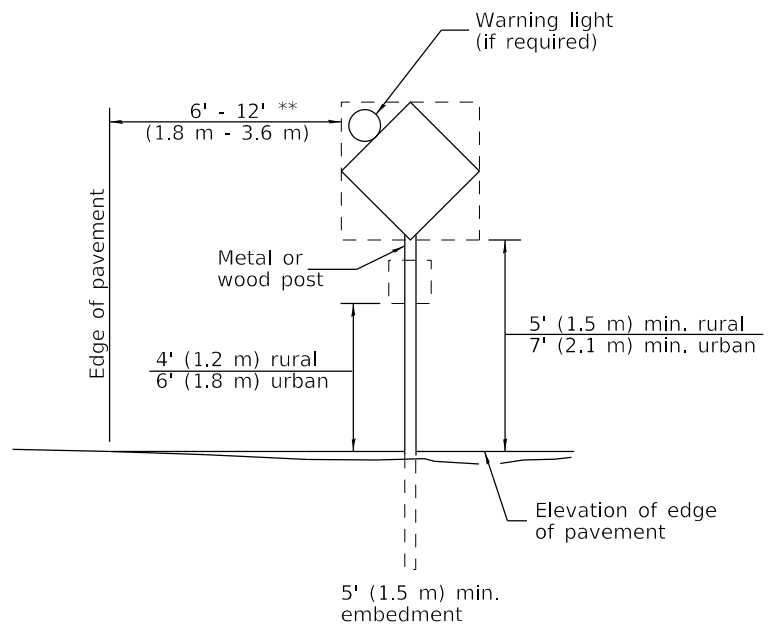
**STANDARD 701901-08**

Illinois Department of Transportation

APPROVED January 1, 2019  
*Cynthia Watt*  
ENGINEER OF SAFETY PROG. AND ENGINEERING

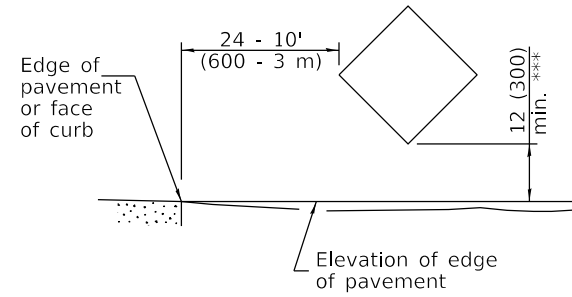
APPROVED January 1, 2019  
*Joe E. ...*  
ENGINEER OF DESIGN AND ENVIRONMENT

ISSUED  
ET-1-1



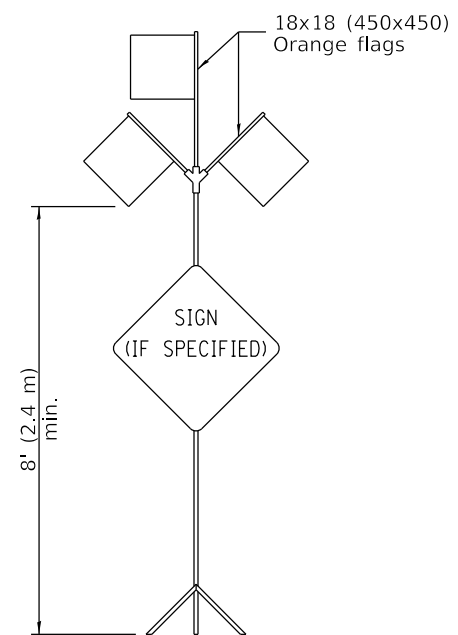
**POST MOUNTED SIGNS**

\*\* 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.

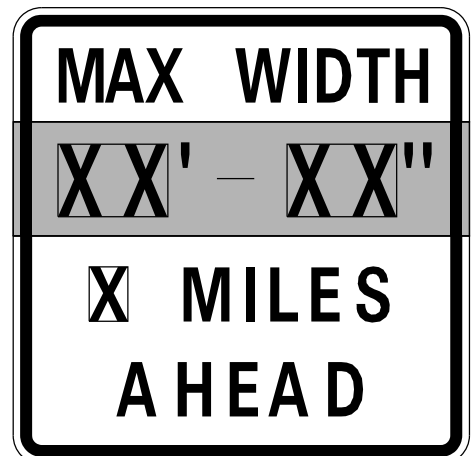


**SIGNS ON TEMPORARY SUPPORTS**

\*\*\* 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.



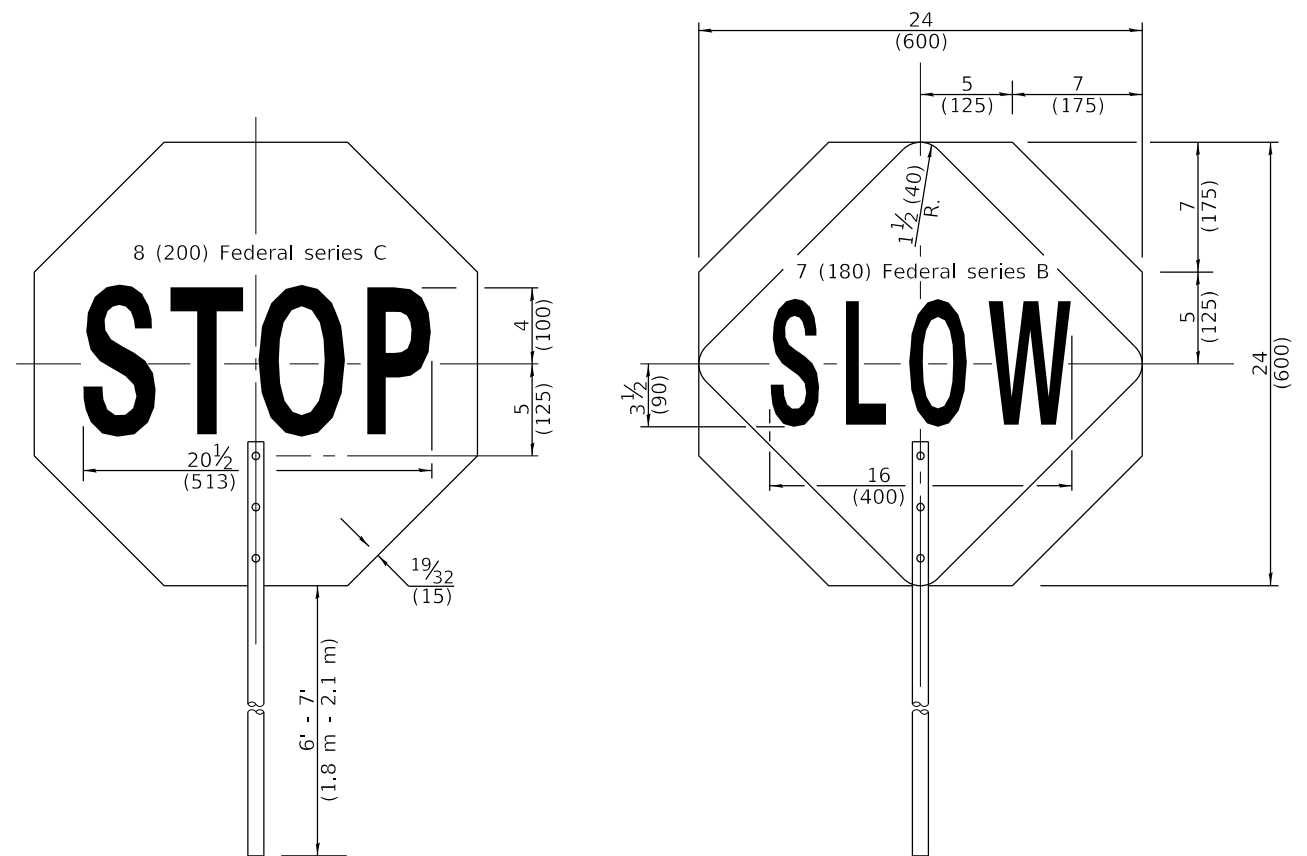
**HIGH LEVEL WARNING DEVICE**



W12-I103-4848

**WIDTH RESTRICTION SIGN**

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



FRONT SIDE

REVERSE SIDE

**FLAGGER TRAFFIC CONTROL SIGN**

ROAD CONSTRUCTION NEXT X MILES	END CONSTRUCTION
G20-I104(0)-6036	G20-I105(0)-6024

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

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

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

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

**WORK LIMIT SIGNING**

WORK ZONE	W21-III5(0)-3618
SPEED LIMIT XX	R2-1-3648
PHOTO ENFORCED	R10-I108p-3618 ****
\$XXX FINE MINIMUM	R2-I106p-3618

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

END WORK ZONE SPEED LIMIT	G20-I103-6036
---------------------------	---------------

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

**HIGHWAY CONSTRUCTION SPEED ZONE SIGNS**

\*\*\*\* R10-I108p shall only be used along roadways under the jurisdiction of the State.

Illinois Department of Transportation

APPROVED January 1, 2019  
*[Signature]*  
 ENGINEER OF SAFETY PROG. AND ENGINEERING

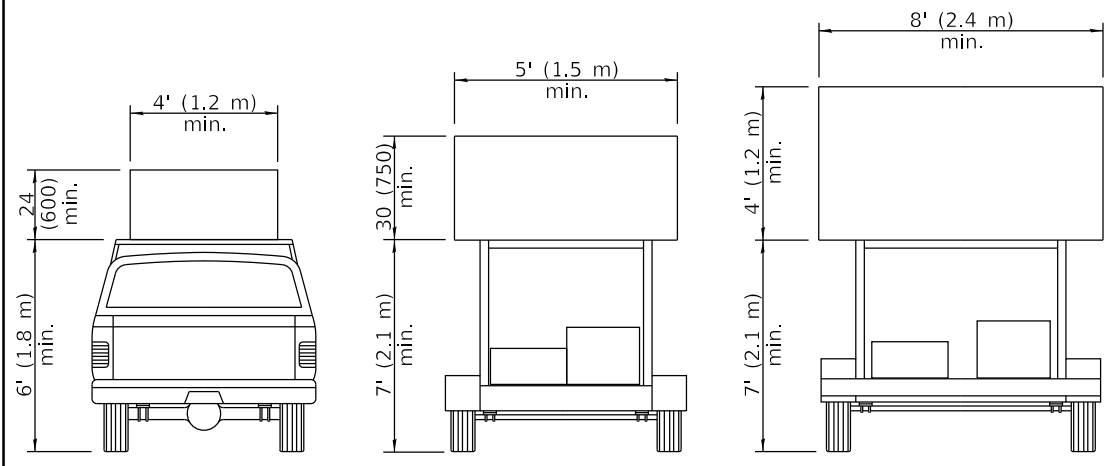
APPROVED January 1, 2019  
*[Signature]*  
 ENGINEER OF DESIGN AND ENVIRONMENT

ISSUED 1-1-13

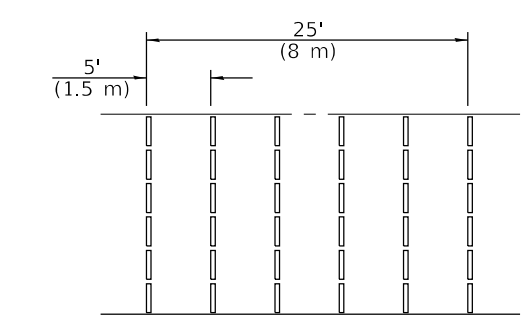
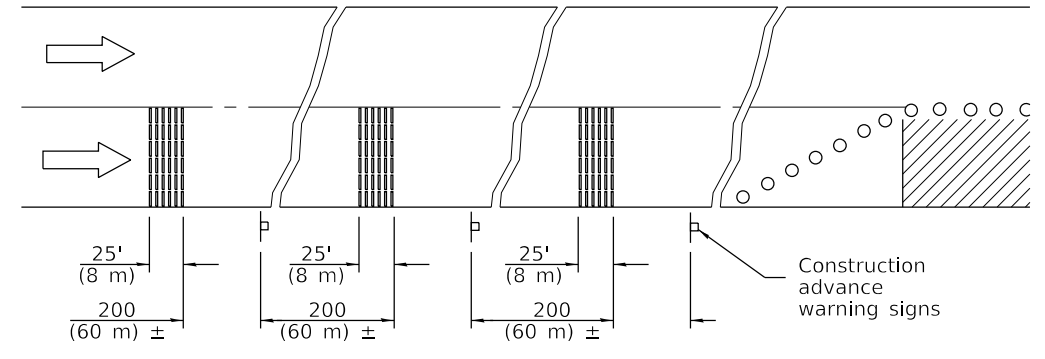
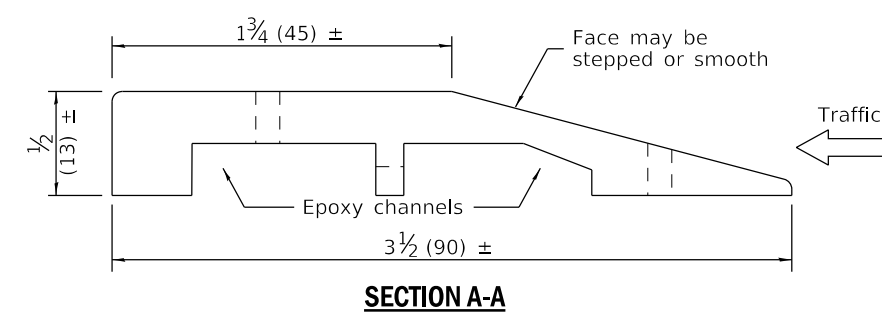
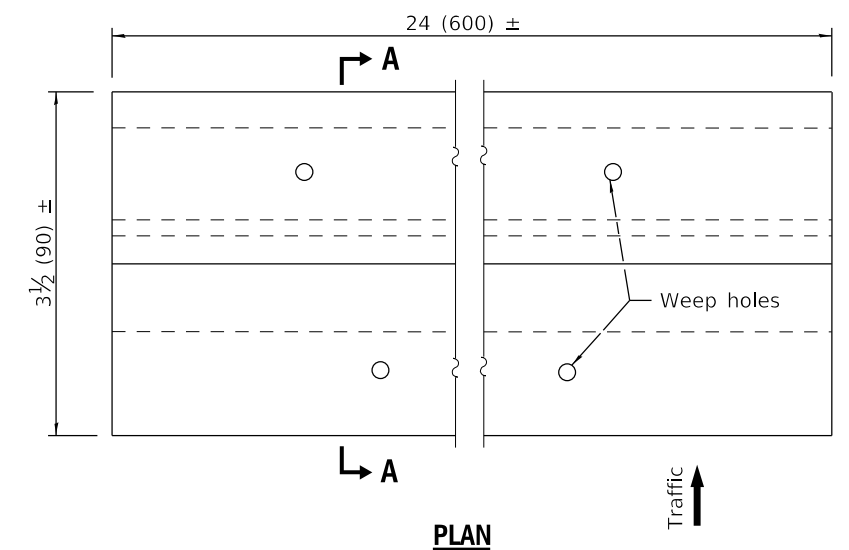
**TRAFFIC CONTROL DEVICES**

(Sheet 2 of 3)

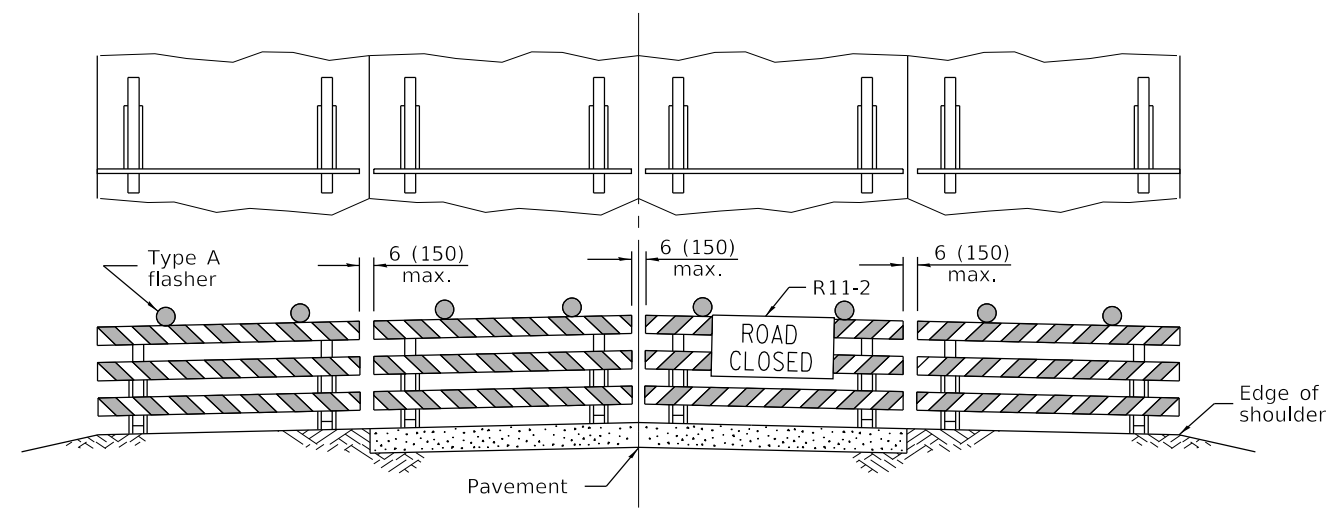
**STANDARD 701901-08**



**ARROW BOARDS**

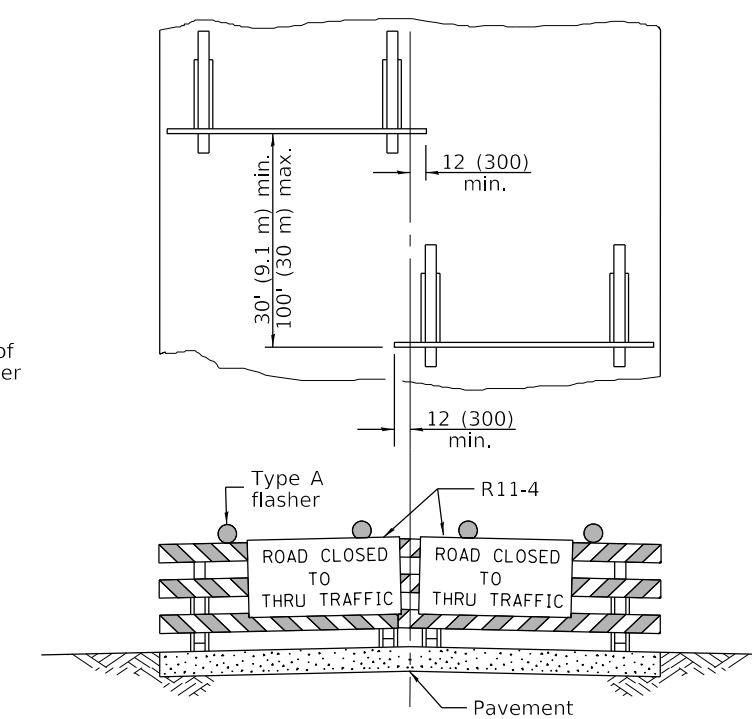


**TEMPORARY RUMBLE STRIPS**



**ROAD CLOSED TO ALL TRAFFIC**

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



**ROAD CLOSED TO THRU TRAFFIC**

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

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

**TRAFFIC CONTROL DEVICES**

(Sheet 3 of 3)

**STANDARD 701901-08**

Illinois Department of Transportation

APPROVED January 1, 2019

*Cynthia Watt*  
ENGINEER OF SAFETY PROG. AND ENGINEERING

APPROVED January 1, 2019

*Joe E. ...*  
ENGINEER OF DESIGN AND ENVIRONMENT

ISSUES  
E1-1-1 Q3551