



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 JOLIET Will 24-00564-00-FP
 Route(s) (Street/Road Name) Type of Funds

 RUSSELL STREET 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 Signature & Date

For a Municipal Project
 Submitted/Approved/Passed
 Signature & Date
 Terry D'Arcy 2/2/24
 Official Title

Department of Transportation
 Released for bid based on limited review
 Regional Engineer Signature & Date
 Jose Rios / KS 3-13-24

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 JOLIET	Will	24-00564-00-FP	RUSSELL STREET

NOTICE TO BIDDERS

Sealed proposals for the project described below will be received at the office of CITY OF JOLIET -CITY CLERK

150 W. JEFFERSON ST., JOLIET IL 60432	Name of Office	until 10:00 AM	on 04/26/24
Address		Time	Date

Sealed proposals will be opened and read publicly at the office of CITY OF JOLIET -CITY CLERK

150 W. JEFFERSON ST., JOLIET IL 60432	Name of Office	at 10:00 AM	on 04/26/24
Address		Time	Date

DESCRIPTION OF WORK

Location	Project Length
Russell Street between Clement Street and Highland Avenue	0.054

Proposed Improvement

Excavate the existing roadway; place Aggregate Base Course, 8"; install B6.12 curb & gutter; PCC Driveway Pavement; PCC Sidewalk; storm sewer and related drainage appurtenances; topsoil and sod. Place roadway hot mix asphalt binder and surface.

1. Plans and proposal forms will be available in the office of

CITY OF JOLIET- CITY CLERK OFFICE; 150 WEST JEFFERSON STREET
 JOLIET IL 60432
 ELECTRONIC DOWNLOAD ON CITY'S WEBSITE AT WWW.JOLIET.GOV

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 JOLIET	Will	24-00564-00-FP	RUSSELL STREET

PROPOSAL

- Proposal of _____

Contractor's Name _____

Contractor's Address _____
- The plans for the proposed work are those prepared by _____
and approved by the Department of Transportation on _____.
- 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.
- 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.
- The undersigned agrees to complete the work within _____ working days or by 06/14/24 unless additional time is granted in accordance with the specifications.
- 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.
- 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.
- The undersigned submits herewith the schedule of prices on BLR 12201 covering the work to be performed under this contract.
- 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.
- 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 OF JOLIET Treasurer of _____.
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 _____.

Local Public Agency	County	Section Number	Route(s) (Street/Road Name)
CITY OF JOLIET	Will	24-00564-00-FP	RUSSELL STREET

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.

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SIGNATURES

(If an individual)

Bidder Signature & Date

Business Address

City State Zip Code

(If a partnership)

Firm Name

Signature & Date

Title

Business Address

City State Zip Code

Insert the Names and Addresses of all Partners

(If a corporation)

Corporate Name

Signature & Date

Title

Business Address

City State Zip Code

Insert Names of Officers

President

Attest:

Secretary

Secretary

Treasurer

**LEGAL NOTICE
CITY OF JOLIET
ADVERTISEMENT TO BIDS
CONTRACT NO. 2805-0524**

RUSSELL ST. ROADWAY PROJECT - MFT SECT. NO. 24-00564-00- FP

The City of Joliet, Illinois, does hereby invite sealed bids for 395 cu.yd. Roadway Exc.; 1040 sq. yd. Aggregate Base Course, Ty B, 8"; 544 ft. B-6.12 curb & gutter; 120 sq. yd. PCC Driveway Pavement; 1040 sq. ft. PCC Sidewalk, 5"; 77 ft. storm sewer; 98 ton HMA surface, 1.5"; 135 ton HMA Binder, 2.5"; 500 sq. yd. furnishing and placing topsoil, 3"; 500 sq. yd. Sod.

Bids will be received at the Office of the City Clerk, City of Joliet Municipal Building, 150 West Jefferson Street, Joliet, Illinois 60432-4156 until **10:00 A.M.** local time on **FRIDAY, APRIL 26, 2024**, at which time they will be opened and publicly read aloud in **CONFERENCE ROOM 1**.

It is highly recommended that all bids be tabbed to mark the Bid Bond, Schedule of Prices, Apprenticeship or Training Program Certification and IDOT Certificate of Eligibility. An electronic copy of the entire submission on a USB flash drive is also requested to be included in the bid packet.

Bid results will be posted on the City's website, and emails sent out to individuals who have subscribed to the related RSS feed. To ensure timely delivery of emails related to this feed, please add jjoliet@public.govdelivery.com to your safe sender list. To be considered compliant, bids/proposals should be addressed as follows:

**CITY OF JOLIET - SEALED BID ENCLOSED
OFFICE OF THE CITY CLERK
150 W. JEFFERSON ST.
JOLIET, IL 60432**

And must be marked clearly on the outside of the SEALED package with the **CONTRACT NUMBER, PROJECT NAME, DATE AND TIME OF THE BID OPENING, COMPANY NAME, ADDRESS, AND PHONE NUMBER.**

Bids must be delivered Monday to Friday 8:00 A.M. – 4:30 P.M. and not on holidays observed by the City of Joliet. The City will not be responsible for deliveries outside these hours. If you choose to hand deliver your bid/proposal, it is to be delivered to the Office of the City Clerk, located at the above address. Please make sure to mention you are delivering a sealed bid/proposal, so the receiver knows to time stamp the envelope upon receipt.

Those desiring to bid may examine the bid documents and detailed specifications in the City of Joliet Purchasing Division, 150 W. Jefferson St., IL 60432 between the hours of 8:00 A.M. and 4:30 P.M. Electronic copies can be downloaded free of charge at <https://www.joliet.gov/bids>.

All bidders will be required to submit Bid Security in the form of a Certified Check, Cashier's Check or a Bid Bond in the amount of **FIVE percent (5%) of the Base Bid**, payable to the City of Joliet.

The successful bidder will be required to post performance security and to provide a Certificate of Insurance as set forth in the Invitation of Bid and the General Terms & Conditions.

Bidders are required to be pre-qualified through the Illinois Department of Transportation. It is the responsibility of the bidder to ensure that their IDOT Certificate of Eligibility is included within the sealed bid packet.

The Contract shall be subject to the provisions of the *Prevailing Wage Act* (820 ILCS 130/1 et seq.) to the extent required by law and the City of Joliet Procurement Code (Section 2-430 – 2-453 of the Code of Ordinances).

The City of Joliet's local qualified bidder ordinance does not apply to this contract.

All Bidding Document holders should sign up for RSS feeds at:

<https://www.joliet.gov/government/departments/finance/purchasing/bids-proposals/construction-public-works> and <https://www.joliet.gov/government/departments/finance/purchasing/bids-proposals/labor-and-services> to automatically receive addendums. Addendums will also be posted on the City of Joliet's website at <https://www.joliet.gov/bids>. The potential vendor/contractor remains responsible for obtaining all addendums to the original specification so they should check the specific bid page before submitting a bid to make sure they have received all addendums to a specific contract. Bidders are to acknowledge receipt of all addendums within the sealed bid packet.

The City of Joliet reserves the right to reject any and all bids, parts of any and all bids, or to waive technical errors or omissions in bids.

BID DOCUMENT FEE:\$0.00

Free electronic download

Published in the Labor Record:
Thursday, April 11, 2024

Beth Beatty
City Manager

Melissa L. Lopez
Purchasing/Contracts Administrator



Schedule of Prices



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
NO.1	TREE ROOT SAWING (SPEC)	EACH	4		
NO. 2	PARKWAY EXCAVATION	SQ YD	730		
NO. 3	ROADWAY EXCAVATION	CU YD	395		
NO. 4	REM AND DISP UNSUIT MATL	CU YD	100		
NO. 5	REM AND DISP CONT MATL	CU YD	25		
NO. 6	TRENCH BACKFILL	CU YD	10		
NO. 7	SUB-BSE GRAN MATL TC 4	SQ YD	255		
NO. 8	AGG BASE COURSE TB 8	SQ YD	1040		
NO. 9	HMA SRF CRS IL9.5 DN50 1.5	TON	98		
NO. 10	HMA BND CRS IL19 N50 2.5	TON	135		
NO. 11	POR GRAN EMB (SPEC)	CU YD	100		
NO. 12	BIT MATL (TACK COAT)	LBS	240		
NO. 13	BIT MATL (PRIME COAT)	LBS	2400		
NO. 14	HMA SURF REM, BUTT JNT	SQ YD	34		
NO. 15	CB, TC, T11 F&G	EACH	2		
NO. 16	FR&LID FURN & INST TY 1CL	EACH	1		
NO. 17	FRAME & GRATE TO BE ADJ	EACH	2		
NO. 18	CATCH BASIN TO BE ADJ	EACH	2		
NO. 19	MANHOLES TO BE ADJ	EACH	2		
NO. 20	COMB CONC C&G TY-B6.12	LIN FT	544		

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Item Number	Items	Unit	Quantity	Unit Price	Total
NO. 21	COMB CONC C&G R&R	LIN FT	90		
NO. 22	COM CURB & GUTTER REM	LIN FT	40		
NO. 23	SIDEWALK REMOVAL	LIN FT	1050		
NO. 24	PCC DRIVEWAY PAVT 6	SQ YD	110		
NO. 25	PCC DRIVEWAY PAVT 8	SQ YD	10		
NO. 26	PCC SIDEWALK 5	SQ FT	1040		
NO. 27	HMA DRIVEWAY PAVT 3	SQ YD	10		
NO. 28	FULL DEPTH PATCH, 10.5"	SQ YD	50		
NO. 29	FURN & PLAC TOPSOIL 3	SQ YD	500		
NO. 30	SODDING	SQ YD	500		
NO. 31	TRAFF CONT & PROTECTION	L SUM	1		
NO. 32	SAWCUT ASPHALT SURF	LIN FT	250		
NO. 33	ASPH/ CONC SAWING	LIN FT	10		
NO. 34	SAWCUT CONC SURFACE	LIN FT	120		
NO. 35	PROTECTIVE COAT	SQ YD	400		
NO. 36	DETECTABLE WARNING	SQ FT	80		
NO. 37	EROSION CONTROL	L SUM	1		
NO. 38	HARDWOOD MULCH	EACH	4		
NO. 39	DRIVEWAY PAVEMENT REM	SQ YD	140		
NO. 40	BARRIER CURB	LIN FT	20		
NO. 41	ST SWRS RCCP CL IV 12	LIN FT	50		
NO. 42	STORM SEWER, DIP 12"	LIN FT	3		
NO. 43	STORM SEWER REMOVAL 18	LIN FT	24		
NO. 44	HMA SURF REMOVAL 1.5	SQ YD	105		
NO. 45	LONGITUDINAL JOINT SLNT	FOOT	278		
NO. 46	VALVE BOX TO BE ADJ	EACH	2		
NO. 47	MANHOLE TO BE RECONST	EACH	2		
Bidder's Total Proposal					

1. Each pay item should have a unit price and a total price.
2. If no total price is shown or if there is a discrepancy between the product of the unit price multiplied by the quantity, the unit price shall govern.
3. If a unit price is omitted, the total price will be divided by the quantity in order to establish a unit price.
4. A bid may be declared unacceptable if neither a unit price or total price is shown.



Local Public Agency	County	Street Name/Road Name	Section Number
CITY OF JOLIET	Will	RUSSELL STREET	24-00564-00-FP

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

Notary Public Signature & Date

(SEAL)

My commission expires _____



Local Public Agency Proposal Bid Bond

Local Public Agency: CITY OF JOLIET, County: Will, Section Number: 24-00564-00-FP

WE, _____ as PRINCIPAL, and _____ as SURETY, are held jointly, severally and firmly bound unto the above Local Public Agency (hereafter referred to as "LPA") 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 LPA 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 LPA 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 LPA 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 LPA determines the PRINCIPAL has failed to enter into a formal contract in compliance with any requirements set forth in the preceding paragraph, then the LPA 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 _____ Month and Year

Principal

Company Name, Signature & Date, Title fields for Principal

Company Name, Signature & Date, Title fields for SURETY

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

Surety

Name of Surety field

Signature of Attorney-in-Fact Signature & Date field

STATE OF IL
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 _____ Month and Year

(SEAL, if required by the LPA)

Notary Public Signature & Date field

Date commission expires _____

Local Public Agency

County

Section Number

CITY OF JOLIET

Will

24-00564-00-FP

ELECTRONIC BID BOND

Electronic bid bond is allowed (box must be checked by LPA 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 LPA under the conditions of the bid bond as shown above. (If PRINCIPAL is a joint venture of two or more contractors, an electronic bid bond ID code, company/Bidder name title and date must be affixed for each contractor in the venture.)

Electronic Bid Bond ID Code

--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

Company/Bidder Name

--

Signature & Date

--

Title

--



Local Public Agency	County	Street Name/Road Name	Section Number
CITY OF JOLIET	Will	RUSSELL STREET	24-00564-00-FP

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

Title

Address	City	State	Zip Code
<input style="width: 100%; height: 20px;" type="text"/>	<input style="width: 100%; height: 20px;" type="text"/>	<input style="width: 100%; height: 20px;" type="text"/>	<input style="width: 100%; height: 20px;" type="text"/>



Affidavit of Availability

For the Letting of



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

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

Part I. Work Under Contract

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

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

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

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

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

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

Part III. Work Subcontracted to Others.

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

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

Notary

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Officer or Director

Title

Signature

Date

Company

Address

City

State

Zip Code

Subscribed and sworn to before me

this ____ day of _____, _____

(Signature of Notary Public)

My commission expires _____

(Notary Seal)

Add pages for additional contracts



Affidavit of Availability

For the Letting of

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

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

Part I. Work Under Contract

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	1	2	3	4	Awards Pending	Accumulated Totals
Contract Number						
Contract With						
Estimated Completion Date						
Total Contract Price						
Uncompleted Dollar Value if Firm is the Prime Contractor						
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HMA Plant Mix						
HMA Paving						
Clean & Seal Cracks/Joints						
Aggregate Bases, Surfaces						
Highway, R.R., Waterway Struc.						
Drainage						
Electrical						
Cover and Seal Coats						
Concrete Construction						
Landscaping						
Fencing						
Guardrail						
Painting						
Signing						
Cold Milling, Planning, Rotomilling						
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Pavement Markings (Paint)						
Other Construction (List)						
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	2	3	4	Awards Pending	1
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**DEPARTMENT OF
PUBLIC WORKS
AND UTILITIES**

815-724-4200 Direct
815-723-7770 Fax



150 WEST JEFFERSON STREET
JOLIET, ILLINOIS 60432-4158

GENERAL CONTRACTOR

RE: 2024 CONSTRUCTION PROJECTS

Dear General Contractor:

The City of Joliet currently has specifications, which require ten (10%) percent minority participation in contracts over \$100,000.00. In an effort to track this information letter, the City of Joliet will be requiring all GENERAL CONTRACTS to submit to a complete list of sub-contractors they intend to use on the awarded project at the pre-construction meeting. The issuance of this sub-contractor list will help the City ensure that minority requirements are met as well as prevailing wages. The sub-contractor list should include the dollar amount or percentage of this contract for the work the sub-contractor is responsible. I.D.O.T. for BC 260-A is an example of such an acceptable form. In addition, the specification states that monthly certified payroll records are to be submitted to the Engineer. This will also be enforced for the upcoming construction season.

The City of Joliet appreciates your effort throughout the years and looks forward to working with you in the upcoming construction season.

A handwritten signature in black ink, appearing to read 'Greg P. Ruddy'.

Gregory P. Ruddy, P.E.
Public Works Director

A handwritten signature in black ink, appearing to read 'Allison Swisher'.

Allison Swisher
Director of Public Utilities

PREVAILING WAGES

This Contract shall be subject to the provisions of the *Prevailing Wage Act* (820 ILCS 130/1 et seq.) to the extent required by law.

For Prevailing Wage information please go to the City of Joliet Website
<https://www.joliet.gov/government/departments/finance/purchasing/prevailing-wage-information>

For current Prevailing Wage Rates, go to State of Illinois Website below and follow the instructions:

<https://data.illinois.gov/dataset/idol-2018-prevailing-wage-rates/resource/0c95f063-aed9-4db7-adc3-c224acee8fc2>

If you cannot access or have difficulty retrieving the prevailing wage information, contact the Purchasing Division at PURCHASING.GOV or call 815-724-3926 and we will send you the relevant prevailing wage information.

GENERAL CONDITIONS

Please see the City of Joliet Special Provision Adopted October 15, 2020 and General Conditions Booklet Updated February 10, 2021 at <https://www.joliet.gov/government/departments/finance/purchasing/special-provisions-general-conditions>

Section 2-448(c). Insurance; all construction and demolition contracts.

- 1) The successful bidder in all construction and demolition contracts shall submit, with other required contract documents, a certificate of insurance, issued by an insurance company licensed to do business in Illinois, indicating the bidder as the insured and naming the City of Joliet (and its officers and employees) as additional insured with right of notice of cancellation for the duration of the contract in at least the following amounts:
 - a) General Liability Insurance – One Million Dollars (\$1,000,000) general liability insurance covering injuries, deaths and property damage.
 - b) Workers Compensation Insurance – amount required by Illinois law.
- 2) The successful bidder shall require the same amounts and coverages as in sub-section (1) from all subcontractors.
- 3) The amounts stated in sub-section (1)(a) shall be doubled for contracts exceeding Five Hundred Thousand Dollars (\$500,000).
- 4) The minimum amount of insurance may be modified and other insurance-related terms and conditions may be required in specific contracts as the Mayor and City Council may deem appropriate.



City of Joliet

Special Provisions

City of Joliet Departments of Public Works & Public Utilities
150 W. Jefferson Street,
Joliet, IL 60432

March 1, 2024

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Introduction

The following Special Provisions supplement the latest addition of the "Standard Specifications for Road and Bridge Construction," the "Supplemental Specifications and Recurring Special Provisions", and the latest edition of the "Illinois Manual on Uniform Traffic Control Devices for Streets and Highways," and the "Standard Specifications for Water and Sewer Main Construction in Illinois" in effect on the date of invitation for bids. In case of conflict with any parts of said specifications, the said Special Provisions shall take precedence and shall govern. The above-named publications shall hereinafter be referred to as the "Standard Specifications" which apply to and govern construction within the City of Joliet.

100.00 LOCATION OF IMPROVEMENTS

Russell St. from Clement St. to Highland Ave.

100.01 DESCRIPTION OF IMPROVEMENTS

Improvements on Russell St. include excavation of the existing roadway, installation of 8" aggregate base course; B-6.12 curb & gutter; PCC Driveway Aprons, storm sewer and related storm drainage appurtenances; restoration of parkway with topsoil and sod, and placement of The Hot Mix Asphalt surface and binder course.

Tentative date for Notice to proceed for this project is May 15, 2024. The completion date is June 14, 2024.

102.00 MINORITY EMPLOYMENT REQUIREMENTS

For contracts valued greater than \$100,000.00:

The Bidder's attention is called to the following Equal Employment Opportunity Construction Contract Specification:

The contractor's aggregate workforce on all construction work covered by this contract shall include any combination of minority or female participation equaling or exceeding ten percent (10%) of the contractor's aggregate workforce. Compliance with this specification will be measured against the total hours performed, including all subcontracts.

The contractor shall submit to the Project Engineer monthly, certified payroll records in order to monitor the total work hours and those hours worked by minorities and/or females, before receiving a monthly payment. Upon completion of the contract, the contractor shall submit to the Project Engineer a summary of the total work hours and those hours worked by minorities and/or females prior to receiving any retainage reduction or final payment.

Non-compliance with this specification will result in the retainage of 2% of the total contract amount for a probationary period of one year from the completion of the contract. If within the one-year probation period the Contractor exceeds the minority employment requirements by the number of man-hours previously deficient, on another City of Joliet contract, the retainage from the prior contract will be released to the Contractor. If the Contractor fails to make up the minority hours on another contract within the probation period, the Contractor will be penalized 2% of the original contract amount.

DEFINITION

Minority shall include:

1. Black (all persons having origins in any of the Black African racial groups not of Hispanic Origin).
2. Hispanic (all persons of Mexican, Puerto Rican, Cuban, Central or South American or other Spanish culture or origin, regardless of race).
3. Asian and Pacific Island (all persons having origin in any of the original peoples of the Far East, Southeast Asia, the Indian Subcontinent, or the Pacific Islands).
4. American Indian or Alaskan Native (all persons having origins in any of the original peoples of North American and maintaining identifiable tribal affiliations through membership and participation or community identification).

For contracts valued less than or equal to \$100,000.00:

The contract does not contain a specific minority employment requirement; however, the City of Joliet encourages the contractor to maximize the amount of minority participation.

105.00 MATERIAL INSPECTION

All hot mix asphalt and Portland cement concrete materials that are part of this project shall be tested and inspected in accordance with the Illinois Department of Transportation's Project Procedures Guidelines (PPG) and the process and frequency of testing under the QC/QA specifications.

The Contractor shall provide documentation verifying that the mix designs to be used on the project for hot mix asphalt and Portland cement concrete meet IDOT specifications for the materials shown in the contract documents. This documentation as well as the mix designs shall be provided at the pre-construction meeting for the project.

The City's consultant will perform the City's QA testing of asphalt and concrete materials on-site and at the plant and act as the City's QA Manager. The City's consultant's name and contact information will be provided at the project preconstruction meeting. The contractor shall provide a request for material testing by the City's consultant by 4pm by email or fax and copy the City Engineer, 48 hours in advance of construction for inspection of all hot mix asphalt and Portland cement concrete materials used on this project.

The cost for this work shall be considered incidental to the contract. No other compensation will be allowed for this work.

105.10 CONSTRUCTION LAYOUT STAKES

In accordance with Article 105.09 of the "Standard Specifications", the Contractor shall furnish to the City of Joliet Public Works Office, 921 E. Washington Street, at his/her expense, construction layout stakes for the project. The material for all layout stakes and lathe shall be oak. Layout stakes (hubs) shall be 2" x 2" x 15". Lathe shall be four (4') feet in length. Hubs shall be provided at a rate of one bundle per 300 linear feet of project length for curb and gutter construction and at a rate of one bundle per 600 linear feet of project length for all other construction projects. Lathe

shall be provided at a rate of one bundle per 600 linear feet of project length for all construction. The cost incurred by the Contractor in complying with this requirement shall be considered incidental to the contract.

107.05 NOTIFICATION TO RESIDENTS FOR PAVING ASPHALT

It shall be the responsibility of the contractor to notify the residents a minimum of twenty-four (24) hours and maximum of seventy-two (72) hours in advance of paving operations on the respective streets/alleys. Notification shall consist of a "FLYER" with information regarding the priming/paving to be hand delivered to each property affected. This notification shall include language stating that no on-street parking shall be allowed from 7 AM to 5 PM.

Basis of Payment:

This work shall be incidental to Traffic Control and Protection. The Contractor shall be responsible for all damage to public or private property done during paving operations. Failure to perform the above work satisfactorily shall result in the contractor being liable for any damages attributable to non-notification. Failure to satisfactorily comply with this provision shall result in forfeiture of payment for Traffic Control & Protection.

107.10 PROTECTION OF PROPERTY AND SURFACE STRUCTURES

Trees, shrubbery, fences, poles, right-of-way pins, and all other property and surface structures shall be protected during construction operations unless the Engineer authorizes their removal for purposes of construction. Any fences, poles or other manmade surface improvements, which are moved or disturbed by the Contractor, shall be restored to the original conditions, after construction is completed, at the Contractor's expense. Any trees, shrubbery, or other vegetation, which are approved for removal or ordered for removal by the Engineer in order to facilitate construction operations, shall be removed completely, including stumps and roots, by the Contractor. Responsibility for any damage or claims for damage caused by construction operations to shrubbery or other landscape improvements, which were not authorized for removal by the Engineer, shall be assumed by the Contractor.

107.40 EXISTING UTILITIES

Existing utilities are shown on the plans according to information obtained from Utility Companies and surveys. The Engineer and the City of Joliet does not guarantee the accuracy or completeness of this information. The Contractor shall make his own investigation to determine the existence, nature and location of all utility lines and appurtenances within the limits of the improvements. **The Contractor will be responsible for performing exploratory excavation to expose any underground utility- including services- with a City representative present and identifying all possible utility conflicts within the proposed public improvement prior to excavating for the roadway. The Contractor shall backfill these exploratory excavation sites with trench backfill and shall maintain the roadway until all the identified utility conflicts are resolved. The cost of this exploratory excavation shall be considered incidental to the contract. No other compensation shall be allowed for this work.**

The Contractor will be required to cooperate with all Contractors, Utility Companies and the City of Joliet involved with the removal, temporary relocation, reconstruction or abandonment by these agencies of any and all services or facilities owned or operated by them within the limits of this improvement. Before doing any work which will damage, disturb or leave unsupported or unprotected any utility lines or appurtenances encountered, the Contractor shall notify the respective owner thereof, who will make all arrangements for relocating, adjusting or otherwise maintaining or abandoning service on lines that fall within the limits of the proposed construction

without cost to the Contractor, including the removal of all cables, manhole covers and other appurtenances which the owner desires to salvage. After such arrangements have been made, the Contractor will proceed with the work as directed by the Engineer.

The Contractor shall contact the involved utility companies not less than 48 hours prior to beginning construction. The majority of these utilities may be contacted through J.U.L.I.E. at (800) 892-0123. In addition, the Contractor shall be responsible to contact the City of Joliet utilities 48 hours prior to beginning the construction at (815) 740-2436. It shall remain the Contractor's responsibility to contact all utilities.

No extra compensation will be allowed the Contractor for any expenses incurred by complying with these requirements, or because of delays, inconvenience or interruptions in his work resulting from the failure of any Municipality or Utility Company to remove, relocate, reconstruct or abandon their services when required by the Contractor's operations. An extension of time may be granted to the extent the Contractor's operations were affected. The Contractor shall be responsible for coordinating his work with that of these agencies and ensure that this improvement is not delayed because of necessary changes in the existing utilities, public or private.

The Contractor shall take whatever precautions which may be necessary to protect the property of the various public utilities which may be located underground or above ground, at or adjacent

to the site of this improvement. The contractor will be required to repair or replace at his own expense or bear the cost of having the utility repair or replace any public utility property which has been damaged through his efforts. The procedure and specifications of repair will be in accordance with the regulations and/or policy of the utility. The utilities shall be given notice by the Contractor to locate and identify all their installations at the site of this improvement.

107.45 WORK TO BE DONE BY OTHERS

The City of Joliet Public Works and Utilities Department, Commonwealth Edison Company, NICOR, Ameritech, Inc., and others may be adjusting their facilities during construction of this section. In such event, it will be necessary for the Contractor to cooperate with the various organizations and the City while they are doing this work.

107.50 INTERRUPTION TO UTILITIES

The Contractor shall proceed with caution in the excavation and preparation of the trench so that the exact location of underground structures may be determined. Prior to proceeding with trench excavation, the Contractor shall contact all utility companies in the area to aid in locating their underground services.

The Contractor shall take all reasonable precautions against damage to existing utilities. However, in the event of a break in an existing watermain, gas main, sewer or underground cable, he shall immediately notify the responsible official of the organization operating the utility interrupted. The Contractor shall lend all possible assistance in restoring services and shall assume all cost, charges, or claims connected with the interruption and repair of such services.

107.60 STRUCTURE PROTECTION

Temporary support, adequate protection and maintenance of all underground and surface structures, drains, sewers and other obstructions encountered in the progress of the work shall be

furnished by the Contractor at his expense and under the direction of the Engineer. The structure, which may have been disturbed, shall be restored to its prior condition upon completion of the work.

108.00 TIMELINESS OF WORK

The Contractor shall perform all work in an orderly, timely and diligent manner. The Contractor shall cooperate with and conform to the requests of the City to expedite particular portions of the work insofar as to complete certain phases of work in a timely manner. Work shall be completed within the timeframe as outlined in Supplement Special Provision for PROJECT SCHEDULE. Contractor shall submit a PROJECT SCHEDULE showing coordination of sub-contractors and sequencing of work.

Construction of the concrete curb and gutter shall begin within five (5) working days of the completion of the roadway grading and sub-base preparation. Upon completion of the concrete curb and gutter, construction of the driveway apron shall begin, and remain continuous, such that driveway shall not remain inaccessible for more than 20 working days, as measured from the date of completion of roadway excavation. If the contractor cannot meet these requirements, he shall provide a temporary stone access to all affected driveways. No additional compensation will be allowed for the providing, placing and removing all temporary access stone. The City of Joliet reserves the right to place the temporary stone and deduct the cost from the construction contract for contractors not meeting this requirement.

108.10 PREMIUM TIME

The City shall be empowered to deduct from compensation due the Contractor, the sum of \$25.00 per Inspector per hour for all inspection time in excess of the following provisions:

- A. The City will not charge for premium time on one Saturday per month if the Contractor has been working on the controlling item of the contract for the previous three working days.
- B. A Saturday rainout will be allowed, and no premium time will be charged only if the Contractor was performing work on the controlling item of the contract the working days prior to and after the actual rain date.
- C. No premium time will be charged for the first nine (9) hours of work during any day.
- D. Premium time will be charged for the following holidays: Christmas, New Year's Day, Thanksgiving, Memorial Day, July 4th and Labor Day.

The City of Joliet will also charge premium time for the cost of resetting any construction stakes damaged by the Contractor during his operations.

The number of Inspectors shall be determined by the following tabulation:

<u>Number of Workmen on Project</u>	<u>Maximum Number of Inspectors Required</u>
1 - 8	1
9 - 16	2
17 - 25	3
Over 25	As Required

109.07 PARTIAL PAYMENTS AND RETAINAGE

Partial payments and retainage shall be calculated in accordance with Section 109.07 of the "Standard Specifications", with the addition of the following: at the Engineer's discretion, if the Contractor has completed all contract work except items delayed by circumstances beyond the Contractor's control, the retainage may be reduced to 2% of the total adjusted contract price.

201.10 TREE ROOT SAWING (SPECIAL)

This work consists of the vertical variable depth sawing of tree roots on those trees to remain at locations shown on the plans or as designated by the Engineer.

The Contractor shall machine saw in a vertical fashion the existing tree roots at a point 1 foot behind the proposed back of curb to ensure room for placing form work and 6" in front of and 6" behind the sidewalk. The tree root is to be removed 6" below sub-grade at all curb & gutter and sidewalk locations. The Contractor shall ensure the protection of trees to be saved in accordance with Article 201.05 of the "Standard Specifications". The disposal of materials shall be done in accordance with Article 202.03.

Basis of Payment:

This work includes all labor, equipment and materials necessary to sawcut as described above. This work will be paid for at the contract unit price each for TREE ROOT SAWING (SPECIAL), measured at each tree where this work is performed.

202.10 PARKWAY EXCAVATION

This item shall include all material, equipment, and labor required to excavate beyond the roadway excavation limit for proposed TOPSOIL PLACEMENT, and required SUB-BASE GRANULAR MATERIAL for P.C.C. SIDEWALK, P.C.C. DRIVEWAY PAVEMENT, AND HOT MIX ASPHALT DRIVEWAY PAVEMENT in accordance with all applicable portions of Section 202 of the Standard Specifications.

The depth of excavation shall range from, but not be limited to, 3 to 12 inches.

Basis of Payment:

This work shall be measured for payment at the contract unit price per square yard for PARKWAY EXCAVATION. The limits of excavation to be paid for are as indicated on the details in the plans, or as approved by the engineer. Without such approval, any additional width will be considered incidental to this item.

202.20 ROADWAY EXCAVATION

This item shall include all material, equipment, and labor required to excavate the existing roadway to the proposed sub-grade elevation, at a width of one (1) foot beyond the proposed back of curb, in accordance with all applicable portions of Sections 202 and 440 of the Standard Specifications.

The City of Joliet shall provide, on the plans, it's best information as to the existing roadway cross section. The contractor may, at his own expense, perform additional tests to verify the existing

roadway cross section. No additional compensation will be allowed due to variations in the thickness or materials shown on the existing roadway cross section.

Basis of Payment:

This work shall be paid for at the contract unit price per cubic yard for ROADWAY EXCAVATION.

202.40 REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL

A contingency amount of Removal and Disposal of Unsuitable Material is included in this contract, in the event that areas requiring removal of the unsuitable material below the subgrade are encountered. The removal shall be at the location and depth as directed by the Engineer. The location shall then be backfilled with Porous Granular Embankment, Special. The material shall be disposed of in accordance with Article 202.03 of the "Standard Specification."

The volume of any unsuitable material removed shall be measured by the Engineer by taking cross sections before the work is started and again after it has been completed and computing the volume in cubic yards by the method of average end areas. This volume shall be agreed upon between the contractor and the Engineer.

Basis of Payment:

This work shall be paid for at the contract unit price as listed on the schedule of prices per cubic yard of material removed for REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL, which price shall include the cost of all excavation and disposal of unsuitable materials and replacement with Porous Granular Embankment.

202.30 OVERHAUL

No payment for overhaul will be allowed for excavated material moved to or from any source.

202.50 TESTING FOR CONTAMINATED MATERIAL

This item shall include all materials, equipment, and labor, required to test ALL excavated materials for environmental contaminants as dictated by Clean Construction or Demolition Debris (CCDD) Legislation (PA 96-1416) incidental to the contract. It is the Contractor's responsibility to create and maintain all testing documentation to be supplied upon request.

Basis of Payment

All testing required shall be incidental to the contract.

202.60 REMOVAL AND DISPOSAL OF CONTAMINATED MATERIAL

This item shall include all materials, equipment, and labor, required to remove and dispose of any excavated material which tests positive for contamination in accordance with all IEPA regulations.

Basis of Payment

This work shall be paid for at the contract unit price per cubic yard, for REMOVAL AND DISPOSAL OF CONTAMINATED MATERIAL.

207.00 POROUS GRANULAR EMBANKMENT, SPECIAL

This work shall consist of furnishing and placing porous granular embankment to the lines and grades shown on the plans or as directed by the Engineer in accordance with the applicable portions of Section 207 of the "Standard Specifications." The material shall be used for fill areas within the limits of the roadway (2' wider than the back of curb) and as fill in areas where

unsuitable material is to be removed. The material shall conform to Article 1003.4 & 1004.5 of the "Standard specifications" except the gradation shall be as follows:

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

<u>Sieve Size</u>	<u>Percent Passing</u>
*6"	90+/-10
2"	40+/-25
No. 200	0+/-10

2. Gravel, Crushed Gravel and Pit Run Gravel:

<u>Sieve Size</u>	<u>Percent Passing</u>
*6"	90+/-10
2"	60+/-25
No. 4	40+/-20
No. 200	5+/-5

* For fill less than 18" sieve size may be 4".

Basis of Payment:

This work shall be paid for at the contract unit price per cubic yard for POROUS GRANULAR EMBANKMENT, SPECIAL.

208.00 TRENCH BACKFILL

This work shall conform to Section 208 of the "Standard Specifications." This item shall consist of furnishing, placing, compacting and transporting course aggregate gradation CA-10 for backfilling material for all trenches made within the roadway, driveways, and as directed by the Engineer. All compaction shall be not less than 85 percent optimum, modified proctor. The material shall conform to Article 1004.5. This item also includes the disposal of the surplus excavated material which is replaced by trench backfill. Such disposal shall be made in accordance with Article 202.03 of the "Standard Specifications."

The Contractor shall maintain trenches flush with existing surfaces until permanent patches are installed or roadway excavation has begun. No additional compensation will be provided the Contractor for trench maintenance.

Method of Measurement:

Quantities incorporated into this item shall be measured by either of the following:

- A. Article 208.03(a) of the "Standard Specifications."

B. The Trench Backfill table published by the State of Illinois, Department of Transportation, Division of Highways, Bureau of Construction in conjunction with the Oct. 1980 Revision. See attached table to be used.

Basis of Payment:

This work will be paid for at the contract unit price per cubic yard for TRENCH BACKFILL.

211.00 FURNISHING AND PLACING TOPSOIL

This work shall consist of furnishing and placing topsoil at the locations and to the thickness specified on the plans or as directed by the Engineer in accordance with Section 211 of the "Standard Specification".

Topsoil shall be pulverized and shall not be placed until the area to be covered has been shaped, trimmed, and finished. All unsuitable materials, debris and rubbish, resulting from construction operations, or accruing within the right of way, and all stones or boulders more than 3 inches in the largest dimension, shall be removed from the right of way and disposed of by the contractor in accordance with Article 202.03. One rolling of the entire surface shall be made immediately after topsoil placement.

If sod is not placed over the topsoil due to sod restrictions or within one week, all topsoil areas must be maintained. Topsoil maintenance shall include the removal, spraying or cutting of weeds over 8" high. This maintenance shall be performed a minimum of once (1) a month. In addition, prior to placing sod, all topsoil areas shall be clean of all weeds and debris. This maintenance shall be considered incidental to this item.

Basis of Payment:

Furnishing, placing and maintaining topsoil will be paid for at the contract unit price per square yard for FURNISHING AND PLACING TOPSOIL of the thickness specified.

251.00 HARDWOOD MULCH

This work shall consist of placing hardwood mulch around each tree within the right-of-way.

Sod shall not be placed within a foot and a half (1.5") annulus (or donut shape) around the base of any tree. The radius measured from the outer edge of the tree trunk. This area shall be covered with hardwood mulch to a depth of three (3") inches. This hardwood mulch placement shall be paid for separately.

Basis of Payment:

This work will be paid for at the contract unit price per each for HARDWOOD MULCH.

252.00 SODDING (rev 2-1-24)

This work shall consist of placing sod at the locations specified on the plans or as directed by the Engineer in accordance with Section 252 of the "Standard Specifications" including sod watering with the following exceptions.

Absolutely NO sod shall be placed from June 1 to August 31.

Sod shall not be placed within a foot and a half (1.5") radius around the base of any tree. The radius measured from the outer edge of the tree trunk. This area shall be covered with hardwood mulch to a depth of three (3") inches. This hardwood mulch placement shall be paid for separately.

All sod surfaces shall be rolled once prior to the initial watering.

Within 2 hours after the sod has been placed, 10 gallons of water per square yard shall be applied. Thereafter, each day, which does not receive more than 1 inch of natural rain, additional water shall be applied at the rate of 6 gallons of water per square yard. The number of additional watering shall not exceed 13 during the period of establishment, defined as the period between sod placement and when the sod becomes knitted to the soil and is growing in place. It is imperative that the contractor notifies the resident engineer each day that a watering is to take place. Payment for sod will **not** be made if the resident engineer does not verify that the City received the 13 additional watering.

The contractor is to provide the resident with instruction for maintenance and care of newly laid sod.

Sodding will be measured for payment in place. To be acceptable, the sod shall be in a live, healthy condition and be knitted to the soil. When directed by the Engineer, any defective or unacceptable sod shall be removed, replaced and watered by the contractor at his/her own expense and in accordance with the requirements specified. Only acceptable sod will be measured for payment.

Basis of Payment:

Sodding will be paid for at the contract unit price per square yard for SODDING.

280.00 EROSION CONTROL

This item shall include all labor, materials, and equipment necessary to install and maintain storm sewer sediment control devices in accordance with the manufacturer's specifications and as directed by the engineer.

Flexstorm inlet filters manufactured by Inlet & Pipe Protection, Inc. (or approved equal) with woven monofilament geotextile filter fabric sediment bags shall be installed on the storm sewer inlet structures at all drainage discharge points during the installation of the storm sewer and prior to the excavation of the roadway. Also, metal plates of adequate size, shape and thickness shall be installed directly on all drainage structures providing a clean seal hindering debris from entering the drainage system.

Once the curb and gutter has been installed, Flexstorm inlet filters shall be installed on all storm sewer inlet structure castings with open lids or grates, within or adjacent to the project limits, and shall remain in place until the asphalt and sod have been placed and the sod watering by the contractor has been completed. The entire frame and sediment bag shall be removed, and the structure cleared of all debris, prior to the City accepting this project.

It is the Contactor's responsibility to review the plans and/or worksite to determine the quantity of each drainage structure casting type. The foundry casting number or the exact grate size and clear opening size will provide the information necessary to identify the required FLEXSTORM Inlet Filter part number.

The contractor shall be responsible for inspecting the sediment bags once per week and after every major rain event (1/2" or more), and removing and cleaning the sediment bag if it is more than half full or damaged. This shall be done until the Flexstorm inlet filters are permanently removed.

Excess /waste construction material shall be properly disposed off-site. No cleaning of equipment or tools, including concrete trucks, will be allowed within the project limits or into the City's storm sewer drainage system. The contractor shall provide a concrete truck washout plan at the time of the project pre-construction meeting, which is in compliance with NPDES permit requirements.

This item shall also include all labor, materials, and equipment necessary to mechanically clean all existing paved surfaces used as egress points from the construction zone at the end of each working day.

Basis of Payment:

This work will be paid for at the contract unit price per lump sum for EROSION CONTROL. No other compensation shall be allowed for this work. Failure of the contractor to comply with this specification will result in progress payments being withheld for the project until the terms of this specification are met to the satisfaction of the Engineer.

351.00 AGGREGATE BASE COURSE

This work shall be performed in accordance with Section 351 of the Standard Specifications with the exception that the first layer be constructed immediately following the roadway excavation. The Contractor shall place the first layer of base course before the end of each work day so that the limits of the excavation are accessible to vehicular traffic. The first layer of base course shall be a minimum thickness of three inches and the width shall extend to the limits of the roadway as shown in the plans. Aggregate ramps shall be constructed at the limits of the excavation at the end of each work day to allow vehicular access to the roadway. All material used in providing access shall be utilized in the final base course and shall be considered incidental to this item.

Upon completion of the first layer of base course and after the installation of the curb and gutter, a proof roll shall be performed to locate any unsuitable sub-grade material that will require removal. This proof roll shall be accomplished in the presence of the engineer and shall be done with a loaded semi-truck.

Upon completion of the final lift of base course and prior to the placement of the hot mix asphalt pavement, the contractor shall perform another proof roll.

Upon completion of the final lift of base course, an aggregate ramp shall be constructed at each end of the project and cross streets. This aggregate ramp shall consist of material equal to in type (A or B) of the aggregate base course and shall be constructed the entire width of the street. The length of the ramp shall be 12 inches for every 2 inches of drop-off in elevation between the existing roadway surface and the aggregate base course. On a typical construction project, the length of the aggregate ramp shall be approximately twenty-four feet (24').

A perpendicular saw cut across the existing asphalt roadway pavement will be performed as necessary by the contractor to provide a clean, even joint prior to the installation of the asphalt binder course (to be performed by a separate contract if the project does not include this item of work). The Contractor shall saw cut the pavement and remove the aggregate ramp within 24 hours after notice is given by the engineer.

Method of Measurement:

Aggregate used for base course will be measured for payment in square yards of the thickness specified. Material used in providing roadway access will not be measured separately, but shall be considered incidental to the plan quantity for Aggregate Base Course, of the type specified. Material used in constructing the aggregate ramp will not be measured separately but shall be considered incidental to this item. Also, no additional compensation will be made for the performance of the two (2) proof roles.

Method of Payment:

This work will be paid for at the contract unit price per square yard for AGGREGATE BASE COURSE, TY A or AGGREGATE BASE COURSE, TY B. The saw cutting of asphalt will be paid for separately per the contract unit price per linear feet for SAW CUT ASPHALT SURFACE. No other compensation will be allowed for this work

403.05 APPLICATION OF BITUMINOUS MATERIAL

Shields, covers or other suitable equipment shall be provided by the Contractor to protect the motoring public, adjoining pavement, curbs, or structures during the application of tack/prime coat. The Contractor will be required to present a weight ticket for the truckload prior to applying the tack/ prime coat. After application the truck shall then be weighed again in order to determine the net weight of tack/ prime coat that has been placed. Both tickets shall be stamped by the certified weightmaster.

One FRESH OIL sign shall be installed in advance of the area to be primed and shall be maintained until the TACK/ prime coat is adequately cured.

Basis of Payment:

This work includes all labor, equipment and materials required to perform the work as described above. This work shall be paid for at the contract unit price per POUND for BITUMINOUS MATERIAL (PRIME COAT) or BITUMINOUS MATERIAL (TACK COAT).

406.10 SAWCUT ASPHALT SURFACE

This work consists of the full depth sawing of the existing bituminous concrete pavement, existing seal coat surface or asphalt driveway pavement with a sawing machine at locations shown on the plans or as designated by the Engineer.

The Contractor shall machine saw a perpendicular clean joint between the portion of bituminous concrete surface to be removed and that to be left in place, to prevent damage to the remaining surface. If additional surface is damaged or removed due to negligence on the part of the Contractor, the additional work will not be measured for payment and shall be done at the Contractor's expense.

Basis of Payment:

This work includes all labor, equipment and materials required to saw cut as described above. This work will be paid for at the contract unit price per linear foot for SAWCUT ASPHALT SURFACE.

406.20 SAWCUT CONCRETE SURFACE

The Contractor shall saw to a full depth, a joint between the portion of the sidewalk, combination curb and gutter or concrete driveway pavement removed and that left in place unless otherwise directed by the Engineer. The sawing shall be accomplished with a concrete sawing machine to prevent the surface from spalling when the material is broken out. This work shall be done in such a manner that a straight joint will be served.

No additional compensation will be allowed because of variations from the assumed thickness or from the thickness shown on the plans, or for variations in the amount of reinforcement.

If additional surface is damaged or removed due to any action on the part of the Contractor, the additional work to saw cut, remove and replace that damaged portion will not be measured for payment. This loss shall be borne by the Contractor.

Basis of Payment:

This work includes all labor, equipment, and materials required to saw cut as described above. This work will be paid for at the contract unit price per linear foot for SAWCUT CONCRETE SURFACE.

406.30 ASPHALT/CONCRETE SAWING

This work shall include all labor and materials necessary to sawcut asphalt or concrete pavement, concrete curb & gutter, concrete sidewalk, and concrete driveway pavement for the installation of storm sewers and other related items.

Basis of Payment:

This work shall be paid for at the contract unit price per linear foot for ASPHALT/CONCRETE SAWING as measured in the field.

406.40 TEMPORARY DRIVEWAY ACCESS

This work shall include all labor and materials necessary to construct and remove temporary aggregate access ramps into each driveway with access off of an alley after grading operations are complete. These ramps shall be constructed and completed to the satisfaction of the Engineer and shall remain in place until asphalt paving is to take place. The Contractor shall be responsible at his/her cost to maintain these aggregate ramps until permanent alley pavement and driveway approaches are in place.

Basis of Payment:

This work shall be paid for at the contract unit price per ton for TEMPORARY DRIVEWAY ACCESS.

407.10 HOT MIX ASPHALT DRIVEWAY PAVEMENT

This work includes the labor, materials and equipment necessary for placing Hot Mix Asphalt Surface Course, IL 9.5, Mix D, N50, of the compacted thickness specified, for driveway pavement

as shown on the plans or as directed by the Engineer. This work shall be performed in accordance with Section 406 of the "Standard Specifications".

The driveway will be prepared for Hot Mix Asphalt material by placing a sub-base granular material, Type C of the thickness specified on the plans and/or as directed by the engineer. The sub-base granular material, Type C shall be placed on undisturbed or compacted ground in the driveway area and shall have a minimum thickness of 3 inches. Existing hot mix asphalt pavement will be sawcut to provide a clean edge to match the proposed pavement.

Saw cutting will be paid for separately. The sub-base granular material, Type C placement and compaction will be paid for separately.

The driveway pavement will be rolled or compacted with a mechanical tamper to insure proper compaction and a smooth surface of the bituminous surface.

Basis of Payment:

This work will be paid for at the contract unit price per square yard for HOT MIX ASPHALT DRIVEWAY PAVEMENT, of the thickness specified, as measured in place.

423.00 PORTLAND CEMENT CONCRETE DRIVEWAY PAVEMENT

This work includes furnishing all materials, equipment and labor necessary to install P.C.C. Driveway Pavement in accordance with Section 423 of the "Standard Specifications."

All driveways shall be six inches (6") in thickness (except for those that bear loads greater than passenger vehicles, which shall be 8" thickness) and reinforced by 6" x 6" #10/#10 welded wire fabric. All driveways shall be placed on a three inch (3") thick sub- base of stone. The stone sub-base shall be provided by the City unless the contract includes the pay item SUB-BASE GRANULAR MATERIAL, TYPE C, 3", in which case the stone shall be paid for separately. Placement and compaction of the stone shall be done by the Contractor.

All driveways shall slope uniformly from the front face of the sidewalk to the back face of the depressed curb. Pavement width shall be as shown on the plans. Expansion material shall be put at both ends of the approach.

Basis of Payment:

This work will be paid for at the contract unit price per square yard for PORTLAND CEMENT CONCRETE DRIVEWAY PAVEMENT, of the thickness specified, measured in place.

424.00 PORTLAND CEMENT CONCRETE SIDEWALK (REV 3/16/23)

This work includes furnishing all material, equipment and labor necessary to install sidewalk in accordance with Section 424 of the "Standard Specifications." All sidewalks except driveway sidewalks shall be five inches (5") thick. All residential driveway sidewalks shall be six inches (6") thick and reinforced with 6" x 6" #10/#10 welded wire fabric. All sidewalks through alley and commercial aprons shall be eight inches (8") thick with 6"x6" #10/ #10 welded wire fabric. The additional concrete and fabric shall be considered incidental to the cost of P.C.C. sidewalk. All sidewalks shall be placed on a three inch (3") thick aggregate sub-base. The aggregate sub-base shall be provided by the City, unless the contract includes the pay item SUB-BASE GRANULAR MATERIAL, TYPE C, 3", in which case the stone aggregate shall be paid for separately. The stone aggregate sub-base shall be placed and compacted by the Contractor.

All sidewalks shall be installed with a 1/4 inch per foot slope towards the street. Sidewalk elevations shall be set so as to maintain a slope of 1/2 inch per foot between the sidewalk and the top of curb wherever possible. All grades shall be set or checked by the Contractor prior to construction. Ramps for the handicapped shall be installed at all intersections as per State Standard No. 424001-11, 424006-05, 424011-04, 424016-05, 424021-02 & 424026-01. A 24" wide strip **re-usable cast iron plate detectable warnings- truncated domes with contrasting color (natural patina unfinished)- shall be installed across the entire depression of the ramp. The cast iron plates shall be free from warps, and have vent holes or anchors.**

Under no circumstance shall the Contractor stamp their name, phone number, or any other information in newly constructed concrete work.

Basis of Payment:

The work will be paid for at the contract unit price per square foot for PORTLAND CEMENT CONCRETE SIDEWALK, 5 INCH, measured in place.

Payment for the Detectable Warnings shall be paid for at the contract unit price per square foot for DETECTABLE WARNINGS as measured in place.

Earth Excavation shall be paid for as PARKWAY EXCAVATION (Joliet Special Provision No. 202.10).

443.01 **FULL DEPTH PATCHING, 10.5"**

This work shall be done in accordance with Section 351 and Article 442 (Class D Patches) of the Standard Specifications with the following inclusions: The depth of patch shall include not less than eight (8") inches of compacted Aggregate Base Course meeting CA-6 specifications and two and one-half (2.5") inches of Hot Mix Asphalt Concrete Binder Course and one and one-half (1.5") Hot Mix Asphalt Concrete surface course. The locations for FULL DEPTH PATCHING are as indicated on the plans as directed by the Engineer.

Basis of Payment:

This work shall be paid for at the contract unit price per square yard for FULL DEPTH PATCHING, 12" which shall include sawing, removal and disposal of existing materials and furnishing materials as specified herein.

550.00 **STORM SEWERS**

This work shall consist of constructing storm sewers of the required inside diameter with the necessary fittings at the locations shown on the plans and constructed in accordance with Section 550 of the Standard Specifications.

The storm sewer material shall be Reinforced Concrete Culvert, Storm Drain, and Sewer Pipe meeting ASTM specification C-76. The pipe joint shall meet ASTM Specifications C-361 for reinforced concrete low head pressure pipe and shall either be confined "O-Ring" or "Tylok" for the gasket material.

Basis of Payment:

This work will be paid for at the contract unit price per linear foot for STORM SEWERS of the type and size specified, measured in place. This price shall include the cost of all pipe fittings required. The cost of connecting proposed storm sewers to existing storm sewers at existing drainage structures shall be considered as incidental to the cost of the proposed storm sewers. No additional compensation will be allowed.

550.10 DUCTILE IRON PIPE FOR STORM SEWER

Ductile iron pipe for storm sewers shall conform to ANSI/AWWA C151/A21.51-86. Class, thickness designation, casting, marking, testing, etc., shall be as specified on the plans or special provisions, in accordance with applicable ANSI or AWWA designations. Unless otherwise specified, all ductile iron pipes shall be thickness Class 52. Fittings shall be ductile iron compact fittings conforming to ANSI/AWWA C153/A21.53-88 and rubber gaskets shall conform to ANSI/AWWA C111/A21.11-90.

Construction of ductile iron pipe storm sewers shall be done in accordance with Section 550 of the Standard Specifications.

Basis of Payment:

This work will be paid for at the contract unit price per linear foot for STORM SEWERS, DUCTILE IRON PIPE, of the type and size specified, measured in place. This price shall include the cost of all pipe fittings required. The cost of connecting proposed storm sewers to existing storm sewers at existing drainage structures shall be considered as incidental to the cost of the proposed storm sewers. No additional compensation will be allowed.

550.30 WIDTH OF EXCAVATION FOR STORM SEWER

Unless otherwise allowed in writing by the Engineer, the maximum width of excavation for storm sewer construction shall be as follows:

<u>DEPTH TO INVERT</u>	<u>WIDTH MAXIMUM</u>
5.0' or Less	9" + O.D. + 9"
Greater than 5.0'	18" + O.D. + 18"

Any excavation beyond these limits is done by the Contractor solely for his convenience and at his expense.

Excavation in rock shall conform to Standard Specification Section 502. Rock shall be over-dug to provide 6 inch bedding for the storm sewer.

551.00 STORM SEWER REMOVAL

This work includes furnishing all materials, equipment and labor necessary to remove storm sewer in accordance with Section 551 of the "Standard Specifications".

This work shall also include plugging the existing drainage structure which shall remain in place after this storm sewer has been removed from it. The existing remaining drainage structure shall be plugged with brick and mortar to the satisfaction of the Engineer and this work shall be considered incidental to the storm sewer removal.

Basis of Payment:

This work will be paid for at the contract unit price per linear foot for STORM SEWER REMOVAL, of the diameter specified, measured as removed.

561.15 DISCONNECTING OF EXISTING WATER LINE

This work shall be paid for on the basis of actual labor, material, and services actually required to investigate and disconnect existing water lines. The Contractor shall supply a detailed listing of the items used and the cost thereof. The Contractor shall be allowed a 15% markup, over documented actual cost, to cover overhead and related expenses for work performed by the Contractor and his direct employees. The Contractor shall be allowed a 5% markup over documented actual invoices for work performed by sub-contractors or by indirect employees.

An amount of \$5,000.00 has been entered on the bid proposal representing the anticipated cost to investigate and disconnect existing water lines. The Contractor shall use this amount when preparing his bid and in calculating the amount of his performance security.

563.10 VALVE BOX TO BE ADJUSTED

This work shall consist of removing the existing valve box top when the roadway is excavated and protecting the section of the valve box (stem) that is to remain in place so that no debris can enter this section. The contractor is to contact the City of Joliet Water Department prior to removing the valve box to determine if the valve is centered within the Valve Box stem and can be accessed. Failure to request the City's inspection will result in the contractor being responsible for re-setting the complete valve box assembly at no additional cost to the City for valve boxes that are found to not be centered or inaccessible. A new valve box top, meeting ASTM A-48, is to be provided and installed by the contractor at no additional cost to the City. Once the binder course is placed, the contractor will adjust the valve box to final surface elevation by making a clean square sawcut around the valve box and backfilling to the binder elevation with approved Portland cement concrete. The adjustment shall be completed immediately after the binder course has been placed. The adjusted valve box shall have a minimum cure time of three (3) days after adjustment, prior to the placement of the final (surface) lift of asphalt. If the contract does not have items for asphalt paving, the contractor shall coordinate scheduling the adjustments with the City's plant mix contractor's schedule for paving the roadway. Basis of Payment: This work shall be paid for at the contract unit price each for VALVE BOX TO BE ADJUSTED which price shall include the cost of a new valve box top to be furnished and installed.

602.15 STORM MANHOLE TO BE ADJUSTED

This work shall consist of the adjustment of existing storm manholes as specified in Section 602, and 603 of the "Standard Specifications" and specifically Section 602.07 using precast reinforced concrete sections. Per Article 602.15, all. Storm manholes to be adjusted shall be clean of any accumulation of silt, debris, foreign matter of any kind, and shall be free from such accumulations at the time of final inspection. Metal adjusting Rings will not be allowed for use in these adjustments. All manhole lids shall be inspected and approved by the City of Joliet before resetting.

The contractor shall inspect the flow line of each MANHOLE for debris obstruction prior to removing the existing casting and excavating the roadway. It is the contractor's responsibility to contact the City of Joliet Sewer Department to arrange for City crews to clean out the MANHOLE if debris is found during the initial inspection prior to the start of excavation. Failure to report the debris will require the contractor to clean the MANHOLE of any debris at no additional cost to the City. Also, the contractor shall be responsible for supplying and installing a metal plate of the adequate shape, size, and thickness to protect the public and structure. This metal plate shall provide a seal onto the concrete/ masonry MAHOLE hindering debris from entering into the MANHOLE during construction of the roadway. The contractor is responsible for removing all existing frames and lids, all existing raising rings and any damaged upper courses of brick manholes. The upper two courses of brick manholes shall be replaced with a six-inch concrete raising ring set in a Portland cement mortar bed. All unusable frames and lids shall be relocated to the nearest City of Joliet maintenance facility at no additional cost to the City.

MANHOLES within the pavement shall remain plated until the hot mix asphalt binder course is placed. The contractor shall inspect the MANHOLE prior to adjusting the casting to final grade. Any construction debris that has entered the MANHOLE due to negligence by the contractor shall be removed at the contractor's cost. If the debris entered into the structure is not a result of negligence by the contractor, the contractor shall contact the City's Sewer Department within 48 hours of adjusting the structure to arrange City crews to clean out the structure. Failure to do so will require the contractor to clean out the structure at no cost to the City.

After the binder is placed, the contractor shall adjust each MANHOLE to final surface elevation by making a clean square saw cut around the MANHOLE and backfilling to the binder elevation with a minimum of 6" of approved Portland cement concrete. Only two-inch thick or greater concrete rings with a top two inch thick MULTI-PURPOSE RUBBER ADJUSTMENT RISER (only required under pavement) shall be used. The adjusted MANHOLE shall have a minimum cure time of three (3) days after adjustment prior to the placement of the final (surface) lift of asphalt. All raising rings shall be sealed using a polyurethane sealant or other approved flexible sealant. Tapered rings shall be used to install the frame to the slope of the road. The final elevation of the adjusted frame and lid on the surface course shall be parallel to the cross-slope of the road within a tolerance of 1/8" of the finish grade. The rubber adjustment rings shall be manufactured by GNR Technologies or approved equal.

Any asphalt material that has entered the pick holes or area between the lid and frame shall be removed and the lid shall be confirmed to be easily removable prior to the issuance of any payment for this item.

This work shall be paid for at the contract unit price EACH for MANHOLES TO BE ADJUSTED which price shall include the cost of the mortar bed as described in the Article 604.04 of the Standard Specifications, and the concrete and rubber adjusting rings.

602.40 FRAME AND GRATE TO BE FURNISHED AND INSTALLED

This item shall include all materials, labor and equipment necessary to furnish and install a Frame and Grate of the type specified on a catch basin or inlet as indicated on plans per Section 604 of the "Standard Specifications". This item also shall include any vertical adjustments necessary on the structure to meet grade requirements. The contractor is responsible to remove all existing frame and grates and relocate them to the nearest City of Joliet maintenance facility.

The top of the grate (curb back) shall include a 'Public Notification' statement not to pollute in accordance with CLEAN WATER ACT storm water discharge requirements. The notification shall be permanently cast in the structure.

Basis of Payment:

This work will be paid for at the contract unit price each for FRAME AND GRATE TO BE FURNISHED AND INSTALLED of the type specified.

606.00 COMBINATION CONCRETE CURB AND GUTTER

This work includes furnishing all materials, equipment and labor necessary to install combination concrete curb and gutter of the type specified in accordance with Section 606 of the "Standard Specifications" and IDOT Highway Standard Detail 606001-04, with the exception that the sawcut contraction joint spacing shall be at fifteen feet intervals.

Depressed curbing shall be placed at all driveway entrances and as shown on the plans or as directed by the Engineer. No additional compensation shall be allowed for depressed curbing. Curb shall be constructed with a nine inch (9") minimum thickness at the flag.

The string line for slip-formed curb shall be set in accordance with the grades provided for the project. No adjustments shall be made unless supervised and/or directed by the resident engineer or project engineer. A maximum vertical construction tolerance of ± 0.02 feet is allowed. In all cases, positive flow must be maintained to all drainage structures.

The castings for all drainage structures which are in the curb line shall be placed after the mainline curb is installed. A minimum twelve foot (12 ft) gap shall be centered at the drainage structure.

Expansion joints shall be placed at the following locations:

- Start and end of all radius points;
- All construction joints and interrupted placement locations;
- Curb terminations with bullnose section at project ends; and
- Approximately five feet (5 ft) each side of curb line drainage structures.

This work shall also include backfilling and compaction behind the curbs, within the affected parkway area, and shall be considered incidental to this item.

Basis of Payment:

This work shall be paid for at the contract unit price per linear foot for COMBINATION CONCRETE CURB AND GUTTER, of the type specified.

606.10 COMBINATION CONCRETE CURB AND GUTTER REMOVAL AND REPLACEMENT

This item shall include all labor, equipment, and material necessary for the removal and replacement of combination concrete curb and gutter in accordance with the applicable portions of Sections 606 and 440 of the "Standard Specifications" at the locations as designated by the plans or as directed by the Engineer. This item shall include the removal of the existing concrete curb and gutter and roadway necessary to install new combination concrete curb and gutter, of the same type as removed, or Type B-6.12, as directed by the Engineer. All new curbs shall be placed on a three inch (3") sub-base of coarse aggregate material gradation CA-6, which shall be considered incidental to this item. The aggregate sub-base shall extend to a point six inches (6") beyond the back of curb. Hot Mix Asphalt replacement required as a result of this work shall be paid for as HOT MIX ASPHALT REMOVAL AND REPLACEMENT, 3" or as specified.

Basis of Payment:

This work shall be paid for at the contract unit price per linear foot for COMBINATION CONCRETE CURB AND GUTTER REMOVAL AND REPLACEMENT, which price includes the removal and disposal of excavated material, placing and compacting the aggregate subbase, and constructing new combination concrete curb and gutter of the type specified.

701.00 TRAFFIC CONTROL AND PROTECTION

This item shall include furnishing, installing, maintaining, relocating and removing all traffic control devices used for the purpose of regulating, warning or directing traffic during the construction or maintenance of this improvement.

Traffic Control and Protection shall be provided as called for in the plans, these Special Provisions, applicable Highway Standards, applicable sections of the Standard Specifications or as directed by the Engineer.

The governing factor in the execution and staging of work for this project is to provide the motoring public with the safest possible travel conditions along the roadway through the construction zone. All traffic control devices used on the project shall conform to the plans, special provisions, traffic control standards, traffic specifications and the "Illinois Manual on Traffic Control Devices for Streets and Highways" and the "Traffic Control Devices Handbook." No modification of these requirements will be allowed without prior written approval of the Engineer.

The Contractor shall be responsible for the proper location, installation and arrangement of all traffic control devices. All traffic control devices shall remain in place until specific authorization and relocation or removal is received from the Engineer.

The Contractor shall ensure that all traffic control devices installed by him are operational 24 hours a day, including Sundays and holidays.

Basis of Payment:

This work will be paid for at the contract unit price per lump sum for TRAFFIC CONTROL AND PROTECTION.

724.00 REMOVING AND RESETTING STREET SIGNS

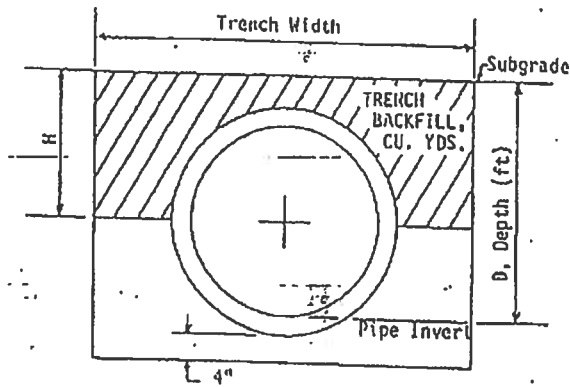
This work shall consist of removing and resetting street signs at locations shown on the plans or as designated by the Engineer. Signs or posts damaged by the Contractor shall be replaced by him at his own expense. These signs shall be placed in a manner satisfactory to the Engineer.

This work will not be paid for separately but shall be considered incidental to the contract and no additional compensation will be allowed.

844.00 STREET LIGHTING

All existing street lighting/power poles and luminaries required to be moved shall be relocated and wired by the Commonwealth Edison Company as per their franchise agreement.

No compensation shall be allowed the Contractor for street lighting relocation work.



Trench Width shall be $9''+OD+9''$, when trench is not sheeted or shored and $18''+OD+18''$, when trench is sheeted or shored,

VOLUME OF TRENCH BACKFILL (CU. YDS.) PER LINEAL FT. OF STORM SEWER

D Feet	Inside Diameter (ID) of Pipe										
	8"	10"	12"	15"	18"	21"	24"	27"	30"	33"	36"
2.0	0.138	0.136	0.132	0.121	0.105						
2.2	0.156	0.155	0.152	0.143	0.130	0.111					
2.4	0.174	0.175	0.173	0.167	0.155	0.138	0.116				
2.6	0.192	0.194	0.194	0.190	0.180	0.166	0.146	0.121			
2.8	0.210	0.214	0.215	0.213	0.205	0.193	0.175	0.152	0.124		
3.0	0.228	0.234	0.236	0.236	0.231	0.220	0.205	0.184	0.158		
3.2	0.246	0.253	0.257	0.259	0.256	0.248	0.235	0.216	0.192	0.163	
3.4	0.264	0.272	0.278	0.282	0.281	0.275	0.264	0.248	0.226	0.199	0.168
3.6	0.282	0.292	0.299	0.305	0.307	0.303	0.294	0.280	0.260	0.236	0.206
3.8	0.300	0.311	0.320	0.329	0.332	0.330	0.323	0.311	0.294	0.272	0.244
4.0	0.319	0.331	0.341	0.352	0.358	0.358	0.353	0.343	0.328	0.308	0.282
4.2	0.336	0.350	0.362	0.375	0.383	0.385	0.383	0.375	0.362	0.344	0.321
4.4	0.354	0.370	0.383	0.398	0.408	0.413	0.412	0.407	0.391	0.368	0.344
4.6	0.610	0.622	0.632	0.642	0.647	0.647	0.642	0.632	0.616	0.595	0.569
4.8	0.639	0.653	0.664	0.676	0.684	0.686	0.683	0.674	0.661	0.643	0.619
5.0	0.668	0.683	0.696	0.711	0.720	0.724	0.723	0.717	0.706	0.690	0.668
6.0	0.815	0.837	0.856	0.882	0.902	0.918	0.927	0.932	0.931	0.926	0.915
7.0	0.961	0.990	1.017	1.053	1.084	1.110	1.131	1.146	1.157	1.162	1.162
8.0	1.107	1.143	1.177	1.224	1.266	1.303	1.335	1.361	1.382	1.398	1.409
9.0	1.253	1.297	1.338	1.396	1.449	1.496	1.539	1.576	1.608	1.635	1.656
10.0	1.399	1.450	1.499	1.560	1.631	1.689	1.742	1.790	1.833	1.871	1.903
11.0	1.545	1.603	1.659	1.739	1.813	1.882	1.946	2.005	2.058	2.107	2.150
12.0	1.691	1.757	1.820	1.910	1.994	2.076	2.150	2.219	2.284	2.343	2.397
*	0.0292	0.0307	0.0321	0.0343	0.0364	0.0386	0.0407	0.0429	0.0451	0.0472	0.0494

* Additional for each 0.2' depth increment above 5.0 feet.

CONVERSION TABLE

Inches x 25.40 = mm

cu. yds. x 0.7646 = m³



Check Sheet for Recurring Special Provisions

Local Public Agency	County	Section Number
CITY OF JOLIET	Will	24-00564-00-FP

Check this box for lettings prior to 01/01/2024.

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	59
2	<input type="checkbox"/> Subletting of Contracts (Federal-Aid Contracts)	62
3	<input type="checkbox"/> EEO	63
4	<input type="checkbox"/> Specific EEO Responsibilities Non Federal-Aid Contracts	73
5	<input type="checkbox"/> Required Provisions - State Contracts	78
6	<input type="checkbox"/> Asbestos Bearing Pad Removal	84
7	<input type="checkbox"/> Asbestos Waterproofing Membrane and Asbestos HMA Surface Removal	85
8	<input type="checkbox"/> Temporary Stream Crossings and In-Stream Work Pads	86
9	<input type="checkbox"/> Construction Layout Stakes	87
10	<input type="checkbox"/> Use of Geotextile Fabric for Railroad Crossing	90
11	<input type="checkbox"/> Subsealing of Concrete Pavements	92
12	<input type="checkbox"/> Hot-Mix Asphalt Surface Correction	96
13	<input type="checkbox"/> Pavement and Shoulder Resurfacing	98
14	<input type="checkbox"/> Patching with Hot-Mix Asphalt Overlay Removal	99
15	<input type="checkbox"/> Polymer Concrete	101
16	<input type="checkbox"/> Reserved	103
17	<input type="checkbox"/> Bicycle Racks	104
18	<input type="checkbox"/> Temporary Portable Bridge Traffic Signals	106
19	<input type="checkbox"/> Nighttime Inspection of Roadway Lighting	108
20	<input type="checkbox"/> English Substitution of Metric Bolts	109
21	<input type="checkbox"/> Calcium Chloride Accelerator for Portland Cement Concrete	110
22	<input type="checkbox"/> Quality Control of Concrete Mixtures at the Plant	111
23	<input type="checkbox"/> Quality Control/Quality Assurance of Concrete Mixtures	119
24	<input type="checkbox"/> Reserved	135
25	<input type="checkbox"/> Reserved	136
26	<input type="checkbox"/> Temporary Raised Pavement Markers	137
27	<input type="checkbox"/> Restoring Bridge Approach Pavements Using High-Density Foam	138
28	<input type="checkbox"/> Portland Cement Concrete Inlay or Overlay	141
29	<input type="checkbox"/> Portland Cement Concrete Partial Depth Hot-Mix Asphalt Patching	145
30	<input type="checkbox"/> Longitudinal Joint and Crack Patching	148
31	<input type="checkbox"/> Concrete Mix Design - Department Provided	150
32	<input type="checkbox"/> Station Numbers in Pavements or Overlays	151

CITY OF JOLIET

Will

24-00564-00-FP

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	Reserved	153
LRS 2	<input type="checkbox"/> Furnished Excavation	154
LRS 3	<input type="checkbox"/> Work Zone Traffic Control Surveillance	155
LRS 4	<input type="checkbox"/> Flaggers in Work Zones	156
LRS 5	<input checked="" type="checkbox"/> Contract Claims	157
LRS 6	<input checked="" type="checkbox"/> Bidding Requirements and Conditions for Contract Proposals	158
LRS 7	<input type="checkbox"/> Bidding Requirements and Conditions for Material Proposals	164
LRS 8	Reserved	170
LRS 9	<input type="checkbox"/> Bituminous Surface Treatments	171
LRS 10	Reserved	175
LRS 11	<input type="checkbox"/> Employment Practices	176
LRS 12	<input checked="" type="checkbox"/> Wages of Employees on Public Works	178
LRS 13	<input checked="" type="checkbox"/> Selection of Labor	180
LRS 14	<input type="checkbox"/> Paving Brick and Concrete Paver Pavements and Sidewalks	181
LRS 15	<input checked="" type="checkbox"/> Partial Payments	184
LRS 16	<input type="checkbox"/> Protests on Local Lettings	185
LRS 17	<input checked="" type="checkbox"/> Substance Abuse Prevention Program	186
LRS 18	<input type="checkbox"/> Multigrade Cold Mix Asphalt	187
LRS 19	<input type="checkbox"/> Reflective Crack Control Treatment	188

BDE SPECIAL PROVISIONS
For the April 26 and June 14, 2024 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 Bureau of Design & Environment (BDE).

File Name	#		Special Provision Title	Effective	Revised
	80099	1	<input type="checkbox"/> Accessible Pedestrian Signals (APS)	April 1, 2003	Jan. 1, 2022
	80274	2	<input type="checkbox"/> Aggregate Subgrade Improvement	April 1, 2012	April 1, 2022
	80192	3	<input type="checkbox"/> Automated Flagger Assistance Devices	Jan. 1, 2008	April 1, 2023
	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	Jan. 1, 2022
*	80241	6	<input type="checkbox"/> Bridge Demolition Debris	July 1, 2009	
*	50531	7	<input type="checkbox"/> Building Removal	Sept. 1, 1990	Aug. 1, 2022
*	50261	8	<input type="checkbox"/> Building Removal with Asbestos Abatement	Sept. 1, 1990	Aug. 1, 2022
	80449	9	<input type="checkbox"/> Cement, Type IL	Aug. 1, 2023	
	80384	10	<input type="checkbox"/> Compensable Delay Costs	June 2, 2017	April 1, 2019
*	80198	11	<input type="checkbox"/> Completion Date (via calendar days)	April 1, 2008	
*	80199	12	<input type="checkbox"/> Completion Date (via calendar days) Plus Working Days	April 1, 2008	
	80453	13	<input type="checkbox"/> Concrete Sealer	Nov. 1, 2023	
	80261	14	<input type="checkbox"/> Construction Air Quality – Diesel Retrofit	June 1, 2010	Nov. 1, 2014
	80434	15	<input type="checkbox"/> Corrugated Plastic Pipe (Culvert and Storm Sewer)	Jan. 1, 2021	
*	80029	16	<input type="checkbox"/> Disadvantaged Business Enterprise Participation	Sept. 1, 2000	Mar. 2, 2019
	80229	17	<input type="checkbox"/> Fuel Cost Adjustment	April 1, 2009	Aug. 1, 2017
	80452	18	<input type="checkbox"/> Full Lane Sealant Waterproofing System	Nov. 1, 2023	
	80447	19	<input type="checkbox"/> Grading and Shaping Ditches	Jan. 1, 2023	
	80433	20	<input type="checkbox"/> Green Preformed Thermoplastic Pavement Markings	Jan. 1, 2021	Jan. 1, 2022
	80443	21	<input type="checkbox"/> High Tension Cable Median Barrier Removal	April 1, 2022	
	80456	22	<input checked="" type="checkbox"/> Hot-Mix Asphalt	Jan. 1, 2024	
	80446	23	<input checked="" type="checkbox"/> Hot-Mix Asphalt - Longitudinal Joint Sealant	Nov. 1, 2022	Aug. 1, 2023
	80438	24	<input type="checkbox"/> Illinois Works Apprenticeship Initiative – State Funded Contracts	June 2, 2021	April 2, 2024
	80045	25	<input type="checkbox"/> Material Transfer Device	June 15, 1999	Jan. 1, 2022
	80450	26	<input type="checkbox"/> Mechanically Stabilized Earth Retaining Walls	Aug. 1, 2023	
	80441	27	<input checked="" type="checkbox"/> Performance Graded Asphalt Binder	Jan. 1, 2023	
	80451	28	<input checked="" type="checkbox"/> Portland Cement Concrete	Aug. 1, 2023	
*	34261	29	<input type="checkbox"/> Railroad Protective Liability Insurance	Dec. 1, 1986	Jan. 1, 2022
	80455	30	<input type="checkbox"/> Removal and Disposal of Regulated Substances	Jan. 1, 2024	April 1, 2024
	80445	31	<input type="checkbox"/> Seeding	Nov. 1, 2022	
	80457	32	<input type="checkbox"/> Short Term and Temporary Pavement Markings	April 1, 2024	
	80448	33	<input type="checkbox"/> Source of Supply and Quality Requirements	Jan. 2, 2023	
	80340	34	<input type="checkbox"/> Speed Display Trailer	April 2, 2014	Jan. 1, 2022
	80127	35	<input type="checkbox"/> Steel Cost Adjustment	April 2, 2004	Jan. 1, 2022
	80397	36	<input type="checkbox"/> Subcontractor and DBE Payment Reporting	April 2, 2018	
	80391	37	<input type="checkbox"/> Subcontractor Mobilization Payments	Nov. 2, 2017	April 1, 2019
	80437	38	<input type="checkbox"/> Submission of Payroll Records	April 1, 2021	Nov. 2, 2023
	80435	39	<input type="checkbox"/> Surface Testing of Pavements – IRI	Jan. 1, 2021	Jan. 1, 2023
	80410	40	<input type="checkbox"/> Traffic Spotters	Jan. 1, 2019	
*	20338	41	<input type="checkbox"/> Training Special Provisions	Oct. 15, 1975	Sept. 2, 2021
	80429	42	<input type="checkbox"/> Ultra-Thin Bonded Wearing Course	April 1, 2020	Jan. 1, 2022
	80439	43	<input type="checkbox"/> Vehicle and Equipment Warning Lights	Nov. 1, 2021	Nov. 1, 2022
	80302	44	<input type="checkbox"/> Weekly DBE Trucking Reports	June 2, 2012	Nov. 1, 2021
	80454	45	<input type="checkbox"/> Wood Sign Support	Nov. 1, 2023	
	80427	46	<input type="checkbox"/> Work Zone Traffic Control Devices	Mar. 2, 2020	
*	80071	47	<input type="checkbox"/> Working Days	Jan. 1, 2002	

Highlighted items indicate a new or revised special provision for the letting.

An * indicates the special provision requires additional information from the designer, which needs to be submitted separately. The Project Coordination and Implementation Section will then include the information in the applicable special provision.

The following special provisions are in the 2024 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>
80436	Blended Finely Divided Minerals	Articles 1010.01 & 1010.06	April 1, 2021	
80440	Waterproofing Membrane System	Article 1061.05	Nov. 1, 2021	

PERFORMANCE GRADED ASPHALT BINDER (BDE)

Effective: January 1, 2023

Revise Article 1032.05 of the Standard Specifications to read:

“1032.05 Performance Graded Asphalt Binder. These materials will be accepted according to the Bureau of Materials Policy Memorandum, “Performance Graded Asphalt Binder Qualification Procedure.” The Department will maintain a qualified producer list. These materials shall be free from water and shall not foam when heated to any temperature below the actual flash point. Air blown asphalt, recycle engine oil bottoms (ReOB), and polyphosphoric acid (PPA) modification shall not be used.

When requested, producers shall provide the Engineer with viscosity/temperature relationships for the performance graded asphalt binders delivered and incorporated in the work.

- (a) Performance Graded (PG) Asphalt Binder. The asphalt binder shall meet the requirements of AASHTO M 320, Table 1 “Standard Specification for Performance Graded Asphalt Binder” for the grade shown on the plans and the following.

Test	Parameter
Small Strain Parameter (AASHTO PP 113) BBR, ΔT_c , 40 hrs PAV (40 hrs continuous or 2 PAV at 20 hrs)	-5 °C min.

- (b) Modified Performance Graded (PG) Asphalt Binder. The asphalt binder shall meet the requirements of AASHTO M 320, Table 1 “Standard Specification for Performance Graded Asphalt Binder” for the grade shown on the plans.

Asphalt binder modification shall be performed at the source, as defined in the Bureau of Materials Policy Memorandum, “Performance Graded Asphalt Binder Qualification Procedure.”

Modified asphalt binder shall be safe to handle at asphalt binder production and storage temperatures or HMA construction temperatures. Safety Data Sheets (SDS) shall be provided for all asphalt modifiers.

- (1) Polymer Modification (SB/SBS or SBR). Elastomers shall be added to the base asphalt binder to achieve the specified performance grade and shall be either a styrene-butadiene diblock, triblock copolymer without oil extension, or a styrene-butadiene rubber. The polymer modified asphalt binder shall be smooth, homogeneous, and be according to the requirements shown in Table 1 or 2 for the grade shown on the plans.

Table 1 - Requirements for Styrene-Butadiene Copolymer (SB/SBS) Modified Asphalt Binders		
Test	Asphalt Grade SB/SBS PG 64-28 SB/SBS PG 70-22	Asphalt Grade SB/SBS PG 64-34 SB/SBS PG 70-28 SB/SBS PG 76-22 SB/SBS PG 76-28
Separation of Polymer ITP, "Separation of Polymer from Asphalt Binder" Difference in °F (°C) of the softening point between top and bottom portions	4 (2) max.	4 (2) max.
TESTS ON RESIDUE FROM ROLLING THIN FILM OVEN TEST (AASHTO T 240)		
Elastic Recovery ASTM D 6084, Procedure A, 77 °F (25 °C), 100 mm elongation, %	60 min.	70 min.

Table 2 - Requirements for Styrene-Butadiene Rubber (SBR) Modified Asphalt Binders		
Test	Asphalt Grade SBR PG 64-28 SBR PG 70-22	Asphalt Grade SB/SBS PG 64-34 SB/SBS PG 70-28 SBR PG 76-22 SBR PG 76-28
Separation of Polymer ITP, "Separation of Polymer from Asphalt Binder" Difference in °F (°C) of the softening point between top and bottom portions	4 (2) max.	4 (2) max.
Toughness ASTM D 5801, 77 °F (25 °C), 20 in./min. (500 mm/min.), in.-lbs (N-m)	110 (12.5) min.	110 (12.5) min.
Tenacity ASTM D 5801, 77 °F (25 °C), 20 in./min. (500 mm/min.), in.-lbs (N-m)	75 (8.5) min.	75 (8.5) min.
TESTS ON RESIDUE FROM ROLLING THIN FILM OVEN TEST (AASHTO T 240)		
Elastic Recovery ASTM D 6084, Procedure A, 77 °F (25 °C), 100 mm elongation, %	40 min.	50 min.

- (2) Ground Tire Rubber (GTR) Modification. GTR modification is the addition of recycled ground tire rubber to liquid asphalt binder to achieve the specified performance grade. GTR shall be produced from processing automobile and/or truck tires by the ambient

grinding method or micronizing through a cryogenic process. GTR shall not exceed 1/16 in. (2 mm) in any dimension and shall not contain free metal particles, moisture that would cause foaming of the asphalt, or other foreign materials. A mineral powder (such as talc) meeting the requirements of AASHTO M 17 may be added, up to a maximum of four percent by weight of GTR to reduce sticking and caking of the GTR particles. When tested in accordance with Illinois Modified AASHTO T 27 "Standard Method of Test for Sieve Analysis of Fine and Coarse Aggregates" or AASHTO PP 74 "Standard Practice for Determination of Size and Shape of Glass Beads Used in Traffic Markings by Means of Computerized Optical Method", a 50 g sample of the GTR shall conform to the following gradation requirements.

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

GTR modified asphalt binder shall be tested for rotational viscosity according to AASHTO T 316 using spindle S27. GTR modified asphalt binder shall be tested for original dynamic shear and RTFO dynamic shear according to AASHTO T 315 using a gap of 2 mm.

The GTR modified asphalt binder shall meet the requirements of Table 3.

Table 3 - Requirements for Ground Tire Rubber (GTR) Modified Asphalt Binders		
Test	Asphalt Grade GTR PG 64-28 GTR PG 70-22	Asphalt Grade GTR PG 76-22 GTR PG 76-28 GTR PG 70-28
TESTS ON RESIDUE FROM ROLLING THIN FILM OVEN TEST (AASHTO T 240)		
Elastic Recovery ASTM D 6084, Procedure A, 77 °F (25 °C), 100 mm elongation, %	60 min.	70 min.

- (3) **Softener Modification (SM).** Softener modification is the addition of organic compounds, such as engineered flux, bio-oil blends, modified vegetable oils, glycol amines, and fatty acid derivatives, to the base asphalt binder to achieve the specified performance grade. Softeners shall be dissolved, dispersed, or reacted in the asphalt binder to enhance its performance and shall remain compatible with the asphalt binder with no separation. Softeners shall not be added to modified PG asphalt binder as defined in Articles 1032.05(b)(1) or 1032.05(b)(2).

An Attenuated Total Reflectance-Fourier Transform Infrared spectrum (ATR-FTIR) shall be collected for both the softening compound as well as the softener modified

asphalt binder at the dose intended for qualification. The ATR-FTIR spectra shall be collected on unaged softener modified binder, 20-hour Pressurized Aging Vessel (PAV) aged softener modified binder, and 40-hour PAV aged softener modified binder. The ATR-FTIR shall be collected in accordance with Illinois Test Procedure 601. The electronic files spectral files (in one of the following extensions or equivalent: *.SPA, *.SPG, *.IRD, *.IFG, *.CSV, *.SP, *.IRS, *.GAML, *. [0-9], *.IGM, *.ABS, *.DRT, *.SBM, *.RAS) shall be submitted to the Central Bureau of Materials.

Softener modified asphalt binders shall meet the requirements in Table 4.

Table 4 - Requirements for Softener Modified Asphalt Binders	
Test	Asphalt Grade
Small Strain Parameter (AASHTO PP 113) BBR, ΔT _c , 40 hrs PAV (40 hrs continuous or 2 PAV at 20 hrs)	-5°C min.
Large Strain Parameter (Illinois Modified AASHTO T 391) DSR/LAS Fatigue Property, Δ G* _{peak τ} , 40 hrs PAV (40 hrs continuous or 2 PAV at 20 hrs)	≥ 54 %

The following grades may be specified as tack coats.

Asphalt Grade	Use
PG 58-22, PG 58-28, PG 64-22	Tack Coat"

Revise Article 1031.06(c)(1) and 1031.06(c)(2) of the Standard Specifications to read:

“(1) RAP/RAS. When RAP is used alone or RAP is used in conjunction with RAS, the percentage of virgin ABR shall not exceed the amounts listed in the following table.

HMA Mixtures - RAP/RAS Maximum ABR % ^{1/2/}			
N _{design}	Binder	Surface	Polymer Modified Binder or Surface ^{3/}
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).
 - 3/ The maximum ABR percentages for ground tire rubber (GTR) modified mixes shall be equivalent to the percentages specified for SBS/SBR polymer modified mixes.
- (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 % ^{1/2/}			
Ndesign	Binder	Surface	Polymer Modified Binder or Surface ^{3/}
30	55	45	15
50	45	40	15
70	45	35	15
90	45	35	15
SMA	--	--	25
IL-4.75	--	--	35

- 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).
- 3/ The maximum ABR percentages for GTR modified mixes shall be equivalent to the percentages specified for SBS/SBR polymer modified mixes.”

Add the following to the end of Note 2 of Article 1030.03 of the Standard Specifications.

“A dedicated storage tank for the ground tire rubber (GTR) modified asphalt binder shall be provided. This tank shall be capable of providing continuous mechanical mixing throughout and/or recirculation of the asphalt binder to provide a uniform mixture. The tank shall be heated and capable of maintaining the temperature of the asphalt binder at 300 °F to 350 °F (149 °C to 177 °C). The asphalt binder metering systems of dryer drum plants shall be calibrated with the actual GTR modified asphalt binder material with an accuracy of ±0.40 percent.”

HOT-MIX ASPHALT – LONGITUDINAL JOINT SEALANT (BDE)

Effective: November 1, 2022

Revised: August 1, 2023

Add the following after the second sentence in the eighth paragraph of Article 406.06(h)(2) of the Standard Specifications:

“If rain is forecasted and traffic is to be on the LJS or if pickup/tracking of the LJS material is likely, the LJS shall be covered immediately following its application with FA 20 fine aggregate mechanically spread uniformly at a rate of 1.5 ± 0.5 lb/sq yd (0.75 ± 0.25 kg/sq m). Fine aggregate landing outside of the LJS shall be removed prior to application of tack coat.”

Add the following after the first sentence in the ninth paragraph of Article 406.06(h)(2) of the Standard Specifications:

“LJS half-width shall be applied at a width of 9 ± 1 in. (225 ± 25 mm) in the immediate lane to be placed with the outside edge flush with the joint of the next HMA lift. The vertical face of any longitudinal joint remaining in place shall also be coated.”

Add the following after the eleventh paragraph of Article 406.06(h)(2) of the Standard Specifications:

“LJS Half-Width Application Rate, lb/ft (kg/m) ^{1/} ”			
Lift Thickness, in. (mm)	Coarse Graded Mixture (IL-19.0, IL-19.0L, IL-9.5, IL-9.5L, IL-4.75)	Fine Graded Mixture (IL-9.5FG)	SMA Mixture (SMA-9.5, SMA-12.5)
$\frac{3}{4}$ (19)	0.44 (0.66)		
1 (25)	0.58 (0.86)		
1 $\frac{1}{4}$ (32)	0.66 (0.98)	0.44 (0.66)	
1 $\frac{1}{2}$ (38)	0.74 (1.10)	0.48 (0.71)	0.63 (0.94)
1 $\frac{3}{4}$ (44)	0.82 (1.22)	0.52 (0.77)	0.69 (1.03)
2 (50)	0.90 (1.34)	0.56 (0.83)	0.76 (1.13)
$\geq 2 \frac{1}{4}$ (60)	0.98 (1.46)		

1/ The application rate includes a surface demand for liquid. 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.”

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

“Aggregate for covering tack, LJS, or FLS will not be measured for payment.”

Add the following to the end of the second paragraph of Article 406.14 of the Standard Specifications:

“Longitudinal joint sealant (LJS) half-width will be paid for at the contract unit price per foot (meter) for LONGITUDINAL JOINT SEALANT, HALF-WIDTH.”

80446

PORTLAND CEMENT CONCRETE (BDE)

Effective: August 1, 2023

Revise the second paragraph of Article 1103.03(a)(4) the Standard Specifications to read:

“The dispenser system shall provide a visual indication that the liquid admixture is actually entering the batch, such as via a transparent or translucent section of tubing or by independent check with an integrated secondary metering device. If approved by the Engineer, an alternate indicator may be used for admixtures dosed at rates of 25 oz/cwt (1630 mL/100 kg) or greater, such as accelerating admixtures, corrosion inhibitors, and viscosity modifying admixtures.”

80451

HOT-MIX ASPHALT (BDE)

Effective: January 1, 2024

Revise the second paragraph of Articles 1030.07(a)(11) and 1030.08(a)(9) of the Standard Specifications to read:

“When establishing the target density, the HMA maximum theoretical specific gravity (G_{mm}) will be based on the running average of four available Department test results for that project. If less than four G_{mm} test results are available, an average of all available Department test results for that project will be used. The initial G_{mm} will be the last available Department test result from a QMP project. If there is no available Department test result from a QMP project, the Department mix design verification test result will be used as the initial G_{mm} .”

In the Supplemental Specifications, replace the revision for the end of the third paragraph of Article 1030.09(h)(2) with the following:




“When establishing the target density, the HMA maximum theoretical specific gravity (G_{mm}) will be the Department mix design verification test result.”

Revise the tenth paragraph of Article 1030.10 of the Standard Specifications to read:

“Production is not required to stop after a test strip has been constructed.”

80456



 K & S ENGINEERS, INC. SOIL TESTING AND FOUNDATION CONSULTANTS		Date: 11-20-2023	EXHIBIT 4
		Scale: Not to Scale	File No. 13890
		Legend: B-/C- #  Approximate Boring/Core Location	

BORING LOCATION PLAN
 RUSSELL ST.
 JOLIET, ILLINOIS

Table of Results
2023: Pavement Cores and Rock Borings
City of Joliet, IL
K & S File No. 13890

Street	Location	Type	Pavement type	Pavement Thickness (inches)	Base Type	Base Thickness (inches)	Exhibit
Bridge St.	B-1	Boring	Bituminous	3	Crushed stone	8.5	See Exhibit 2
(Nicholson St. – Center St.)	B-2	Boring	Bituminous	3	Crushed stone	6	**
	B-3	Boring	Bituminous	3	Crushed stone	10	**
W Jefferson Street	B-4	Boring	Bituminous	6	Crushed stone with clay	30	See Exhibit 5
(Raynor Ave. – Center St.)	B-5	Boring	Bituminous	4	Crushed stone with clay	32	**
	B-6	Boring	Bituminous	3	Crushed stone with clay	6	**
Adella Avenue	B-7	Boring	Bituminous	5.5	Crushed stone	6	See Exhibit 1
(Washington St.– 2nd Ave.)	C-1	Core	Bituminous	4.5	--	--	**
	C-2	Core	Bituminous	5.5	--	--	**
Russell Street	C-3	Core	Bituminous	3	--	--	See Exhibit 4
(Clement St. – Highland Ave.)							**
Richmond Street	C-4	Core	Bituminous	4	--	--	See Exhibit 3
(Fairlane Dr. – Sunset Strip)	C-5	Core	Bituminous	5	--	--	**
	C-6	Core	Bituminous	6	--	--	**

Notes:

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

Illinois Department of Transportation

APPROVED January 1, 2021
 ENGINEER OF POLICY AND PROCEDURES
 APPROVED January 1, 2021
 ENGINEER OF DESIGN AND ENVIRONMENT

ISSUED 1-1-97

DATE	REVISIONS
1-1-21	Updated fonts, abbreviations, and symbols.
1-1-19	Added new symbols.

STANDARD SYMBOLS, ABBREVIATIONS, AND PATTERNS

(Sheet 1 of 9)

STANDARD 000001-08

ADJUSTMENT ITEMS		EX	PR	ALIGNMENT ITEMS		EX	PR	DRAINAGE ITEMS		EX	PR
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		B	B	Drainage Boundary Line			
Structure To Be Filled Special			FSP	Centerline Symbol			C	Paved Ditch			
Structure To Be Removed			R	PI Indicator		△	△	Aggregate Ditch			
Structure To Be Reconstructed			REC	Point Indicator		o	o	Pipe Underdrain			
Structure To Be Reconstructed Special			RSP	Horizontal Curve Data (Half Size)		EX. CURVE P.I. STA= Δ= D= R= L= F= C= T.R.= S.T. RUN= P.C. STA= P.T. STA=	CURVE P.I. STA= Δ= D= R= L= F= C= T.H.= S.E. RUN= P.C. STA= P.T. STA=	Storm Sewer			
Frame and Grate To Be Adjusted			A	BOUNDARIES ITEMS		EX	PR	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		o	o
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				Chiseled Square Found		□		Catch Basin		o	●
				Iron Pipe Found		o		Culvert End Section		△	△
				Iron Pipe Set		●		Water Surface Indicator		▽	
				Survey Marker		⊕		Riprap			
				Property Line Symbol		P		HYDRAULICS ITEMS		EX	PR
				Same Ownership Symbol (Half Size)				Overflow			
				Northwest Quarter Corner (Half Size)				Sheet Flow			
				Section Corner (Half Size)				Hydrant Outlet			
				Southeast Quarter Corner (Half Size)				STANDARD SYMBOLS, ABBREVIATIONS, AND PATTERNS (Sheet 2 of 9) STANDARD 000001-08			

Illinois Department of Transportation

APPROVED January 1, 2021

 ENGINEER OF POLICY AND PROCEDURES

APPROVED January 1, 2021

 ENGINEER OF DESIGN AND ENVIRONMENT

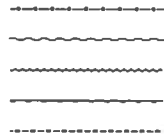
ISSUED 11-17

EROSION & SEDIMENT CONTROL ITEMS

EX

PR

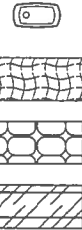
- Cleaning & Grading Limits
- Dike
- Erosion Control Fence
- Perimeter Erosion Barrier
- Temporary Fence



- 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

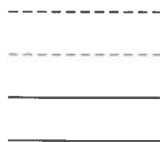


CONTOUR ITEMS

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

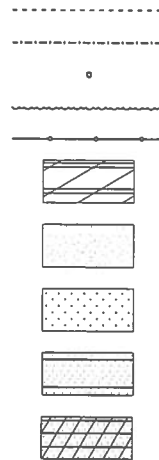


LANDSCAPING ITEMS

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

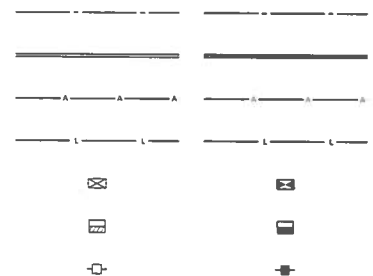


LIGHTING

EX

PR

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



STANDARD SYMBOLS, ABBREVIATIONS, AND PATTERNS

(Sheet 3 of 9)

STANDARD 000001-08

Illinois Department of Transportation

APPROVED January 1, 2021

 ENGINEER OF POLICY AND PROCEDURES

APPROVED January 1, 2021

 ENGINEER OF DESIGN AND ENVIRONMENT

ISSUED 11-1-97

**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 Dlag. 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 000001-08

PAVEMENT MARKINGS
(contd.)

EX

PR

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



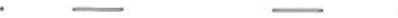
CL 2Ln 2Way
RRPM 80' (24.4 m) o.c.



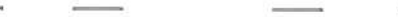
CL Multilane Div.
RRPM 40' (12.2 m) o.c.



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



ONLY ONLY ONLY



Urban Right Turn Only



Urban Thru Only



Urban LT & RT Turn Arrow



Urban Thru Arrow



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 000001-08

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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 ONLY ONLY



Rural Right Turn Only



Rural Thru Only



Rural Thru Arrow



Rural Lt & Rt Turn Arrow



Bike Lane Symbol



Bike Lane Text



Bike Path Shared



Bike Shared Roadway



Lane Drop Symbol



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Wrong Way Arrow



STANDARD SYMBOLS, ABBREVIATIONS, AND PATTERNS <small>(Sheet 6 of 9)</small>
STANDARD 000001-08

**RIGHT OF WAY ITEMS
(contd.)**

EX

PR

Access Control Line		
Access Control Line & ROW		
Access Control Line & ROW with Fence		
Excess ROW Line		

**ROADWAY PLAN
ITEMS**

EX

PR

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

ROADWAY PROFILES

EX

PR

P.I. Indicator		
Point Indicator		
Earthworks Balance Point		
Begin Point		
Vert. Curve Data	VPI = ELEV = mL =	VPI = ELEV = L =
Ditch Profile Left Side		
Ditch Profile Right Side		
Roadway Profile Line		
Storm Sewer Profile Left Side		
Storm Sewer Profile Right Side		

SIGNING ITEMS

EX

PR

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

**SIGNING ITEMS
(contd.)**

EX

PR

Reverse Left W1-4L (Half Size)	
Reverse Right W1-4R (Half Size)	
Two Way Traffic Sign W6-3 (Half Size)	
Detour Ahead W20-2(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 000001-08

**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 R3-100L
(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)

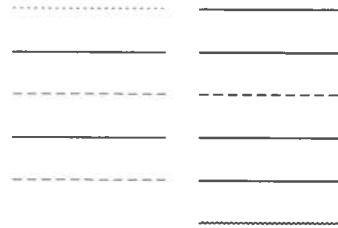


STRUCTURES ITEMS

EX

PR

- Box Culvert Barrel
- Box Culvert Headwall
- Bridge Pier
- Bridge
- Retaining Wall
- Temporary Sheet Piling

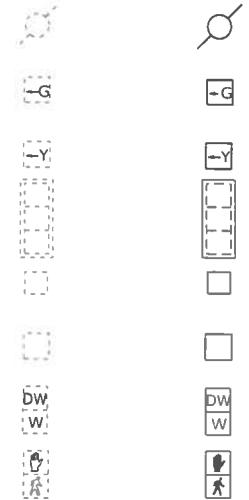


**TRAFFIC SHEET
ITEMS**

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

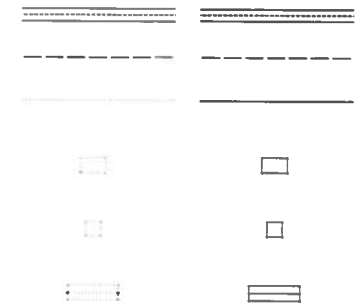


**TRAFFIC SIGNAL
ITEMS**

EX

PR

- Galv. Steel Conduit
- Underground Cable
- Detector Loop Line
- Detector Loop Large
- Detector Loop Small
- Detector Loop Quadrapole



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**STANDARD SYMBOLS,
ABBREVIATIONS,
AND PATTERNS**

(Sheet 8 of 9)

STANDARD 000001-08

<u>TRAFFIC SIGNAL ITEMS (contd.)</u>		<u>EX</u>	<u>PR</u>	<u>UNDERGROUND UTILITY ITEMS</u>			<u>EX</u>	<u>PR</u>	<u>ABANDONED</u>	<u>UTILITY ITEMS (contd.)</u>		<u>EX</u>	<u>PR</u>
Detector Raceway				Cable TV				Traffic Signal					
Aluminum Mast Arm				Electric Cable				Traffic Signal Control Box					
Steel Mast Arm				Fiber Optic				Water Meter					
Veh. Detector Magnetic				Gas Pipe				Water Meter Valve Box					
Conduit Splice				Oil Pipe				Profile Line					
Controller				Sanitary Sewer				Aerial Power Line					
Gulfbbox Junction				Telephone Cable									
Wood Pole				Water Pipe									
Temp. Signal Head				<u>UTILITIES ITEMS</u>			<u>EX</u>	<u>PR</u>					
Handhole				Controller				Deciduous Tree					
Double Handhole				Double Handhole				Bush or Shrub					
Heavy Duty Handhole				Fire Hydrant				Evergreen Tree					
Junction Box				GuyWire or Deadman Anchor				Stump					
Ped. Pushbutton Detector				Handhole				Orchard/Nursery Line					
Ped. Signal Head				Heavy Duty Handhole				Vegetation Line					
Power Pole Service				Junction Box				Woods & Bush Line					
Priority Veh. Detector				Light Pole				<u>WATER FEATURE ITEMS</u>		<u>EX</u>	<u>PR</u>		
Signal Head				Manhole				Stream or Drainage Ditch					
Signal Head w/Backplate				Monitoring Well (Gasoline)				Waters Edge					
Signal Post				Pipeline Warning Sign				Water Surface Indicator					
Closed Circuit TV				Power Pole				Water Point					
Video Detector System				Power Pole with Light				Disappearing Ditch					
				Sanitary Sewer Cleanout				Marsh					
				Splice Box Above Ground				Marsh/Swamp Boundary					
				Telephone Splice Box Above Ground									
				Telephone Pole									

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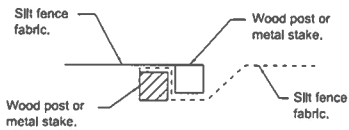
APPROVED January 1, 2021

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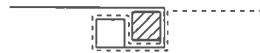
STANDARD SYMBOLS, ABBREVIATIONS, AND PATTERNS
 (Sheet 9 of 9)

STANDARD 000001-08



Place end-post (stake) of first silt fence adjacent to end-post (stake) of second silt fence with fabric positioned as shown.

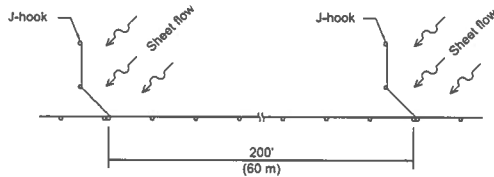
STEP 1



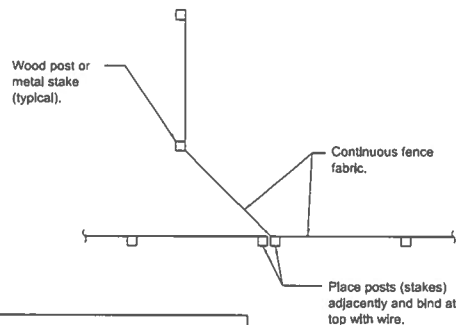
Rotate posts (stakes) together 180° clockwise and drive both posts (stakes) 18 (450) into ground.

STEP 2

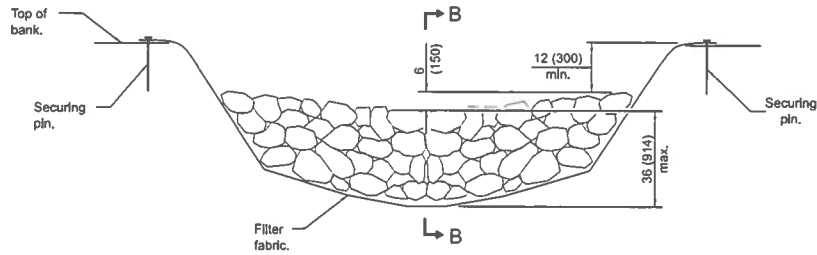
ATTACHING TWO SILT FILTER FENCES
(Not applicable for J-hooks)



SILT FILTER J-HOOK PLACEMENT

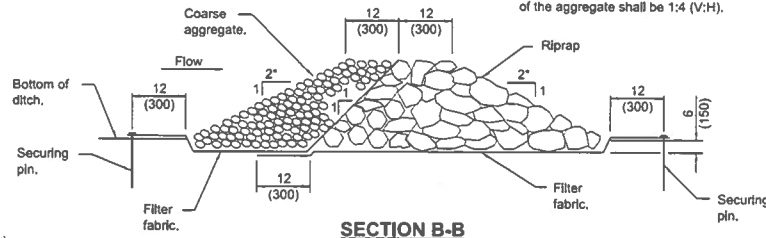


J-HOOK



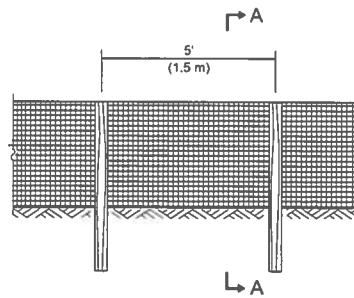
ELEVATION

When the ditch check is within the clear zone and the road is open to traffic, the traffic approach slope of the aggregate shall be 1:4 (V:H).



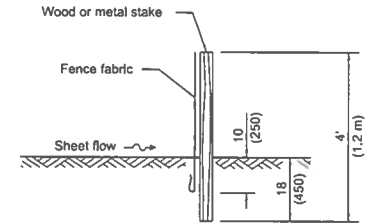
SECTION B-B

AGGREGATE DITCH CHECK

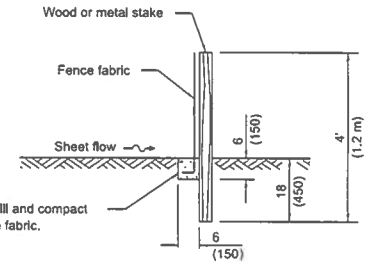


ELEVATION

SILT FILTER FENCE AS A PERIMETER EROSION BARRIER



SLICE METHOD



TRENCH METHOD

SECTION A-A

Excavate, backfill and compact trench to secure fabric.

GENERAL NOTES

The installation details and dimensions shown for perimeter erosion barriers shall also apply for inlet and pipe protection.

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

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Michael Beard
ENGINEER OF POLICY AND PROCEDURES

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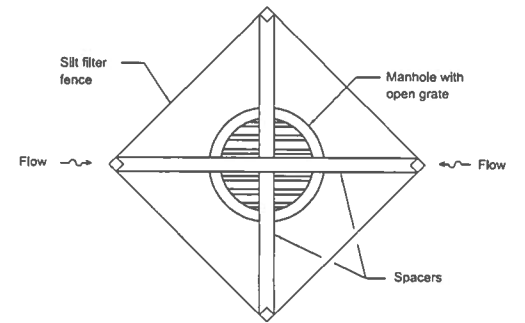
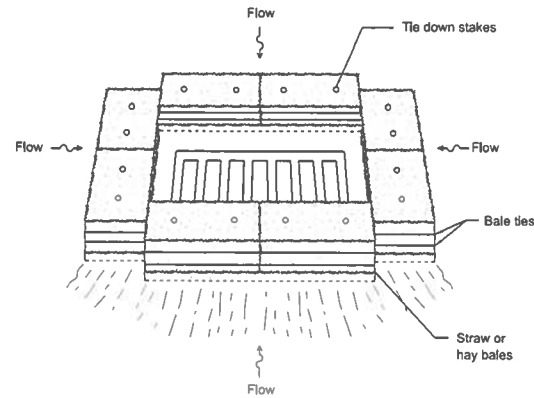
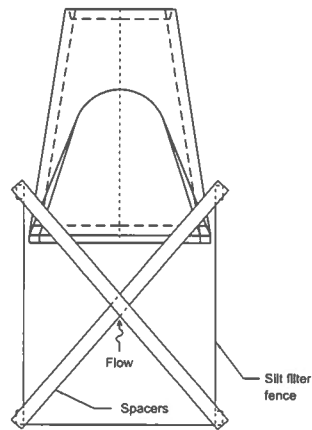
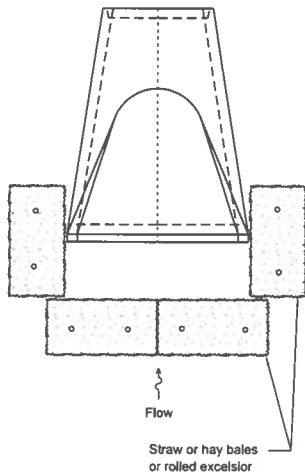
ISSUED 11-1-97

DATE	REVISIONS
1-1-13	Corrected notation for flowline (E) on SEDIMENT BASIN ELEVATION
1-1-12	Omitted hay/straw perimeter barrier. Added SLICE METHOD to SECTION A-A

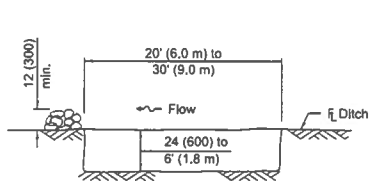
TEMPORARY EROSION CONTROL SYSTEMS

(Sheet 1 of 2)

STANDARD 280001-07

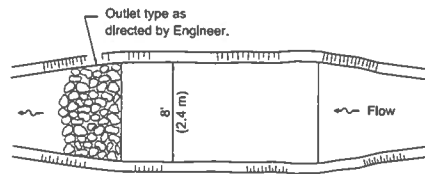


INLET AND PIPE PROTECTION



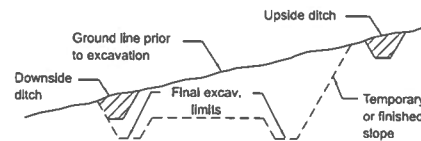
The performance of the basin will improve if put into a series.

ELEVATION

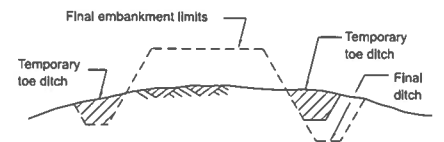


The long dimension should be parallel with the direction of the flow. Accumulated silt shall be removed anytime the basins become 75% filled.

PLAN



TYPICAL CUT CROSS-SECTION



TYPICAL FILL CROSS-SECTION

TEMPORARY DITCHES FOR CUT & FILL SECTIONS

SEDIMENT BASIN

TEMPORARY EROSION CONTROL SYSTEMS

(Sheet 2 of 2)

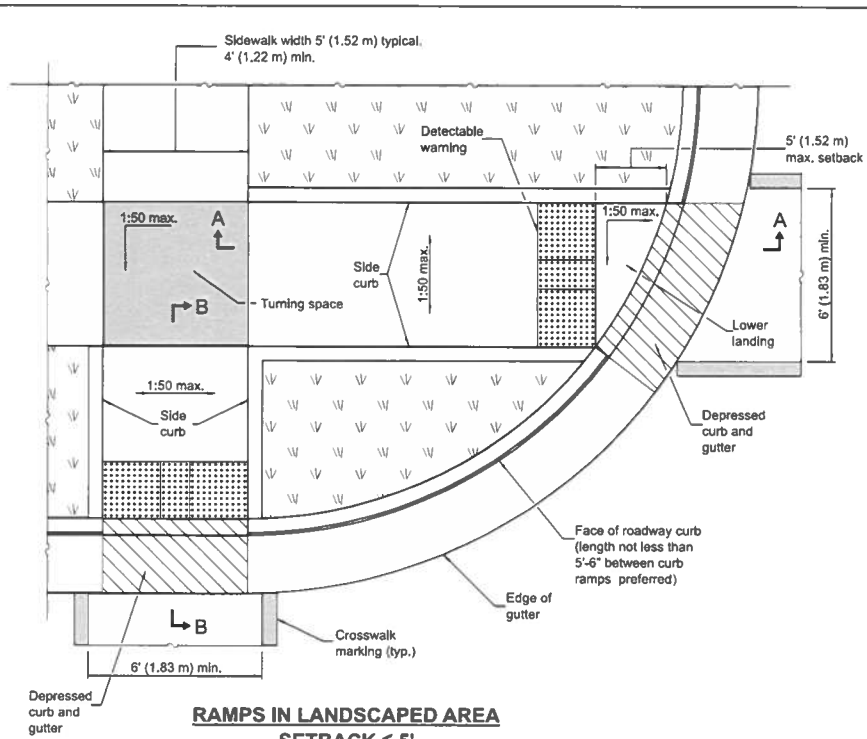
STANDARD 280001-07

Illinois Department of Transportation

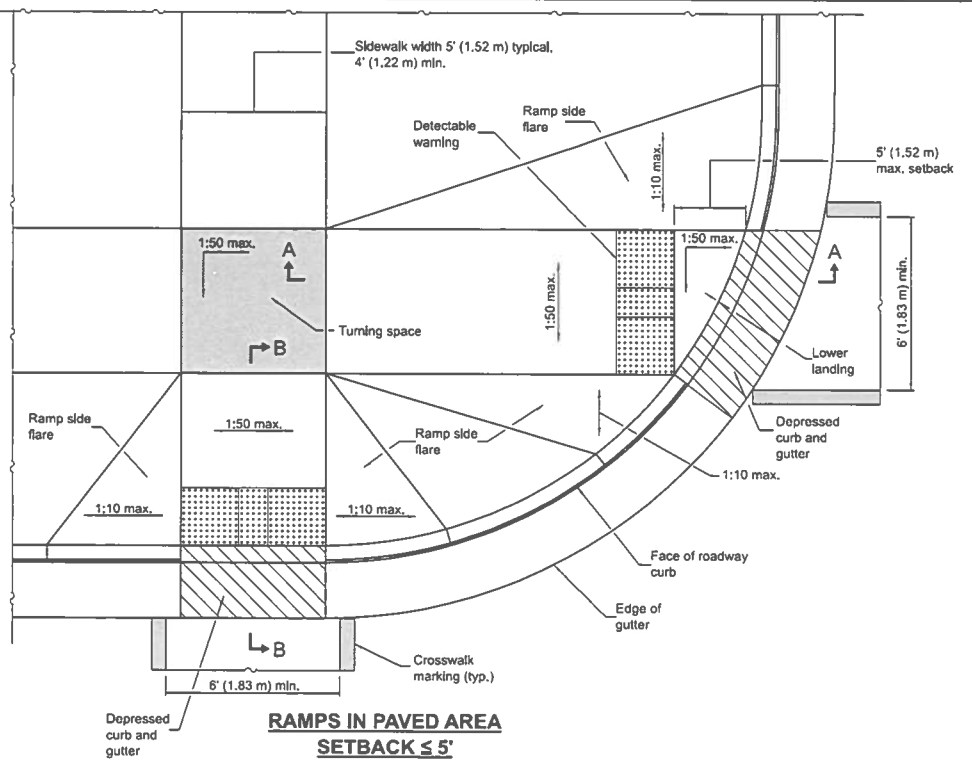
APPROVED January 1 2013
Michael Brand
 ENGINEER OF POLICY AND PROCEDURES

APPROVED January 1 2013
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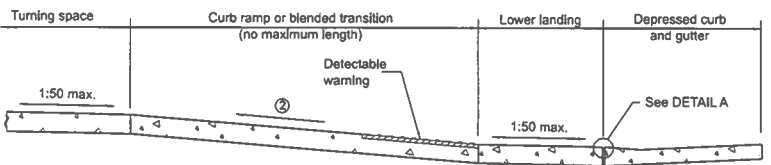
ISSUED 11-97



**RAMPS IN LANDSCAPED AREA
SETBACK ≤ 5'**

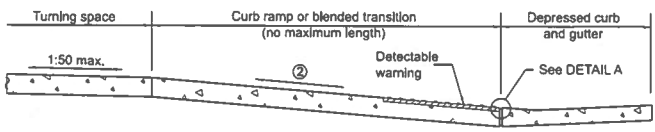


**RAMPS IN PAVED AREA
SETBACK ≤ 5'**



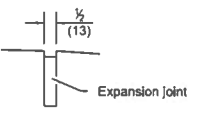
SECTION A-A

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.

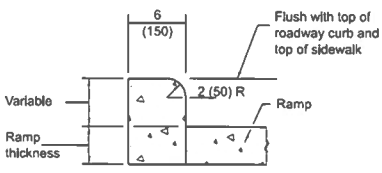


SECTION B-B

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

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APPROVED <i>[Signature]</i> January 1, 2019 ENGINEER OF DESIGN AND ENVIRONMENT	

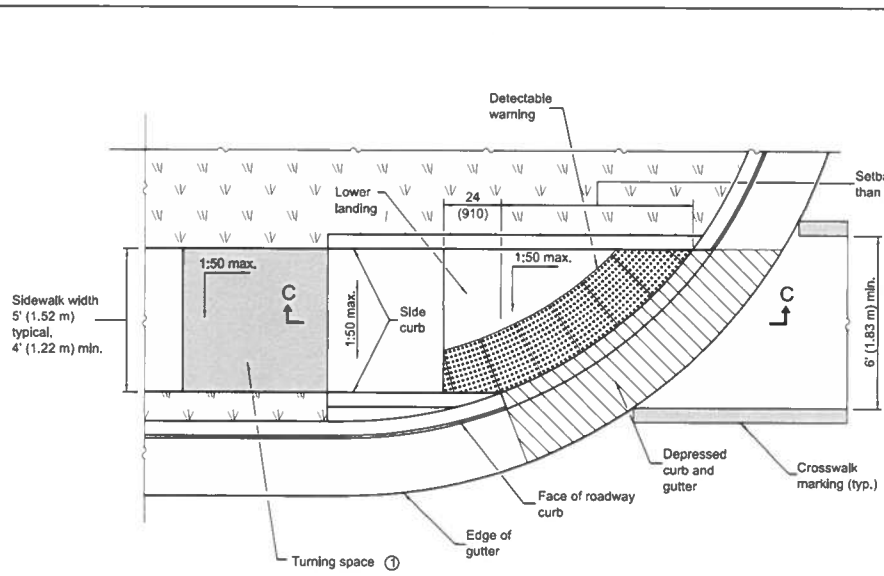
See Sheet 2 for GENERAL NOTES.

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.

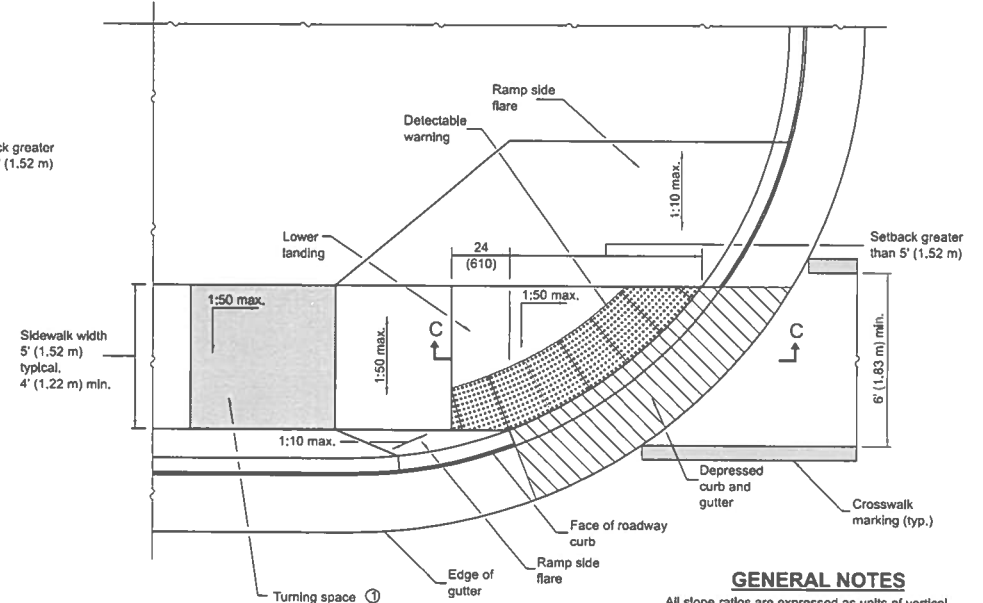
**PERPENDICULAR CURB
RAMPS FOR SIDEWALKS**

(Sheet 1 of 2)

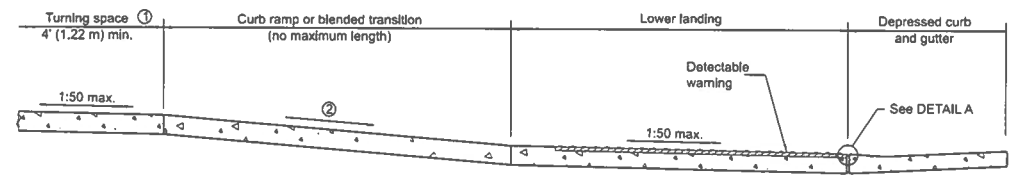
STANDARD 424001-11



**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.

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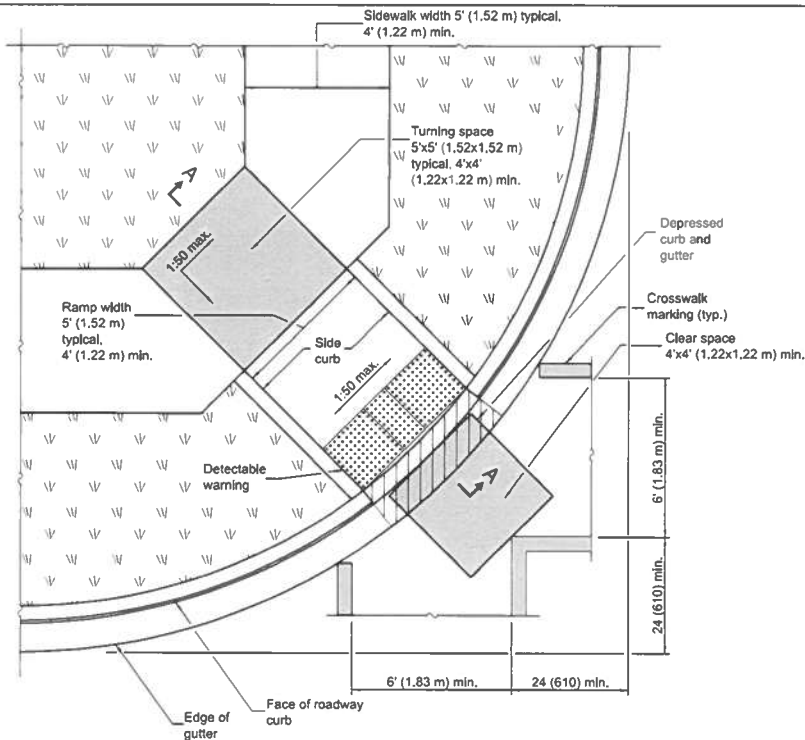
APPROVED January 1, 2019
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SHEET 1-1-17

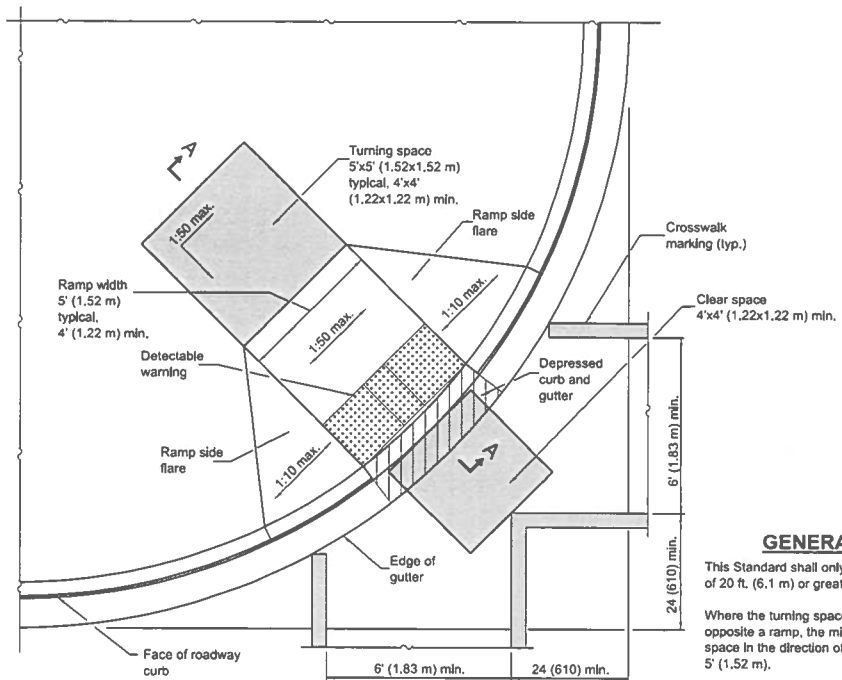
**PERPENDICULAR CURB
RAMPS FOR SIDEWALKS**

(Sheet 2 of 2)

STANDARD 424001-11



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.

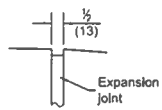
Side Border - Detectable warnings should extend the full width of the walking surface (excluding flared sides) but a border along each side up to 2 in. (50 mm) in width is allowed.

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.

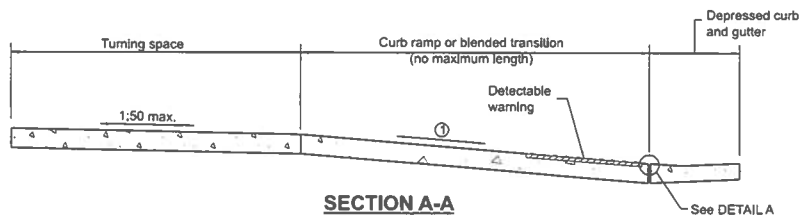
All slope ratios are expressed as units of vertical displacement to units of horizontal displacement (V:H).

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

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

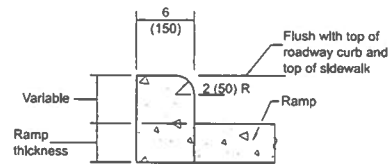


DETAIL A



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.



SIDE CURB DETAIL

DATE	REVISIONS
1-1-21	Clarified minimum crosswalk width and locations.
1-1-19	Removed "15-foot rule", added "blended transitions" and placement tolerances for detectable warnings.

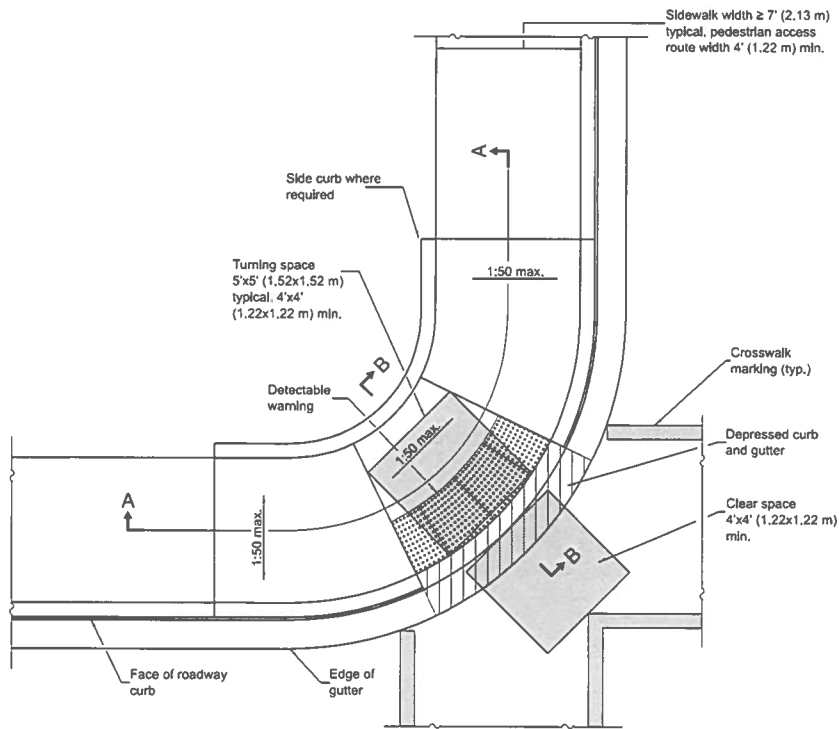
DIAGONAL CURB RAMPS FOR SIDEWALKS

STANDARD 424006-05

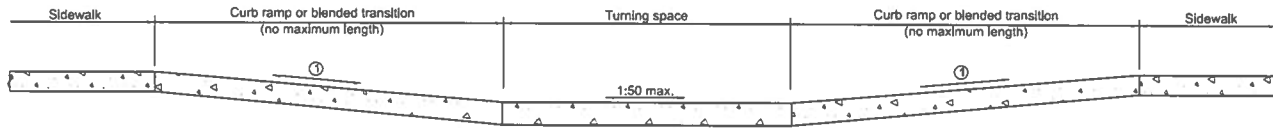
Illinois Department of Transportation

APPROVED January 1, 2021
 ENGINEER OF POLICY AND PROCEDURES
 APPROVED January 1, 2021
 ENGINEER OF DESIGN AND ENVIRONMENT

ISSUED 1-1-12

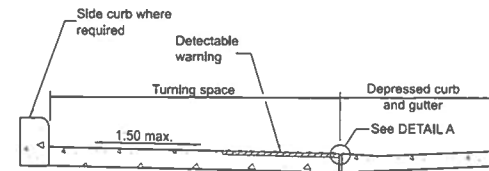


CORNER PARALLEL CURB RAMP

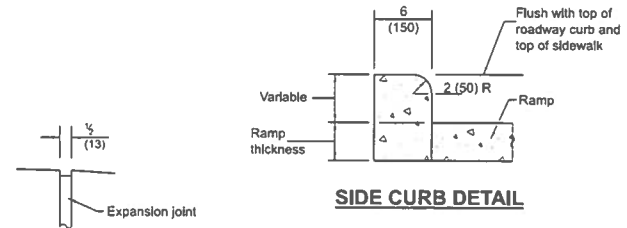


SECTION A-A

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



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 slides) 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.

CORNER PARALLEL CURB RAMPS FOR SIDEWALKS

STANDARD 424011-04

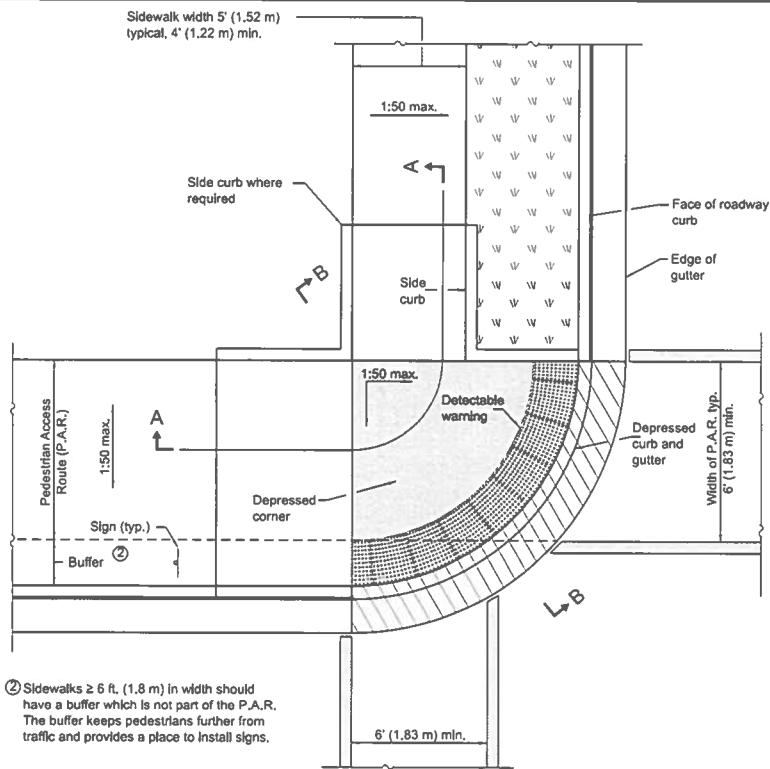
DATE	REVISIONS
1-1-19	Removed upper landing, added blended transition and detectable warning tolerances.
1-1-17	Revised sidewalk width to include 24 (610) buffer behind curb.

Illinois Department of Transportation

APPROVED January 1, 2019
[Signature]
 ENGINEER OF POLICY AND PROCEDURES

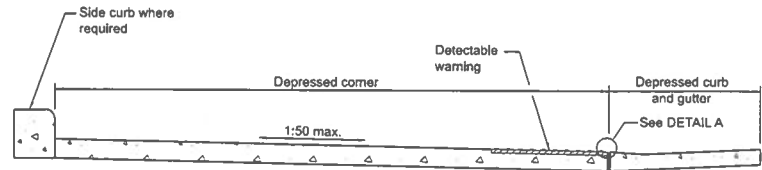
APPROVED January 1, 2019
[Signature]
 ENGINEER OF DESIGN AND ENVIRONMENT

ISSUED 1-1-12

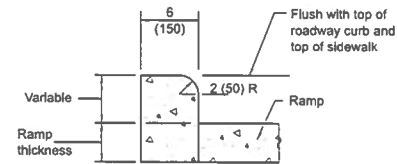


② Sidewalks \geq 6 ft. (1.8 m) in width should have a buffer which is not part of the P.A.R. The buffer keeps pedestrians further from traffic and provides a place to install signs.

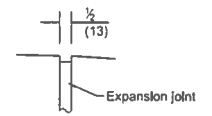
DEPRESSED CORNER



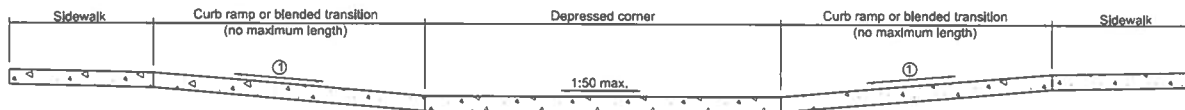
SECTION B-B



SIDE CURB DETAIL



DETAIL A



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.

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.

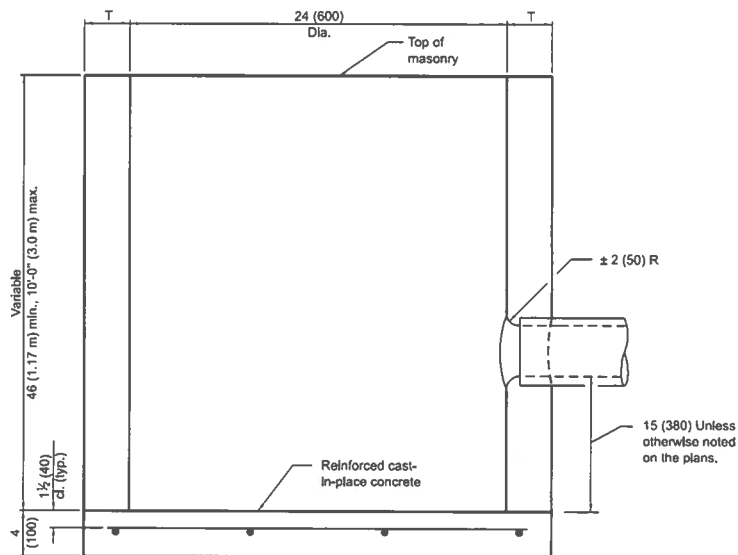
All dimensions are in inches (millimeters) unless otherwise shown.

Illinois Department of Transportation	
APPROVED January 1, 2021	SCALED 1:1-12
ENGINEER OF POLICY AND PROCEDURES	
APPROVED January 1, 2021	
ENGINEER OF DESIGN AND ENVIRONMENT	

DATE	REVISIONS
1-1-21	Added crosswalk striping and a "buffer" for wide sidewalks.
1-1-19	Removed upper landings, added blended transition and detectable warning tolerances.

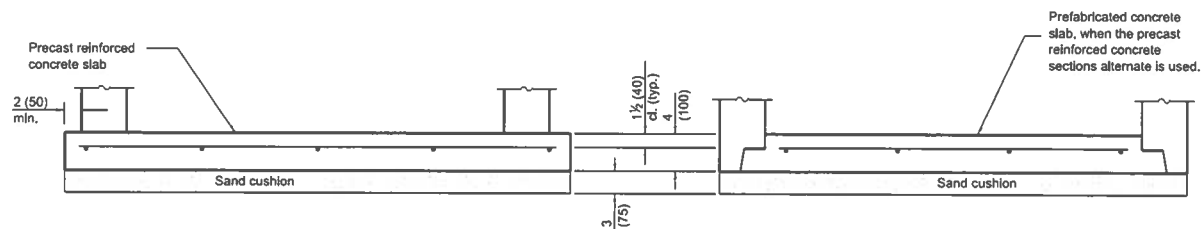
DEPRESSED CORNER FOR SIDEWALKS

STANDARD 424021-06



ELEVATION

ALTERNATE MATERIALS FOR WALLS	T (min)
Precast Reinforced Concrete Section	3 (75)
Concrete Masonry Unit	5 (125)
Cast-in-Place Concrete	6 (150)
Brick Masonry	8 (200)



ALTERNATE BOTTOM SLAB

GENERAL NOTES

Bottom slabs shall be reinforced with a minimum of 0.27 sq. in./ft. (570 sq. mm/m) in both directions with a maximum spacing of 9 (230).

Bottom slabs may be connected to the riser as determined by the fabricator; however, only a single row of reinforcement around the perimeter may be utilized.

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

Illinois Department of Transportation

APPROVED January 1, 2011
Michael Beard
 ENGINEER OF POLICY AND PROCEDURES

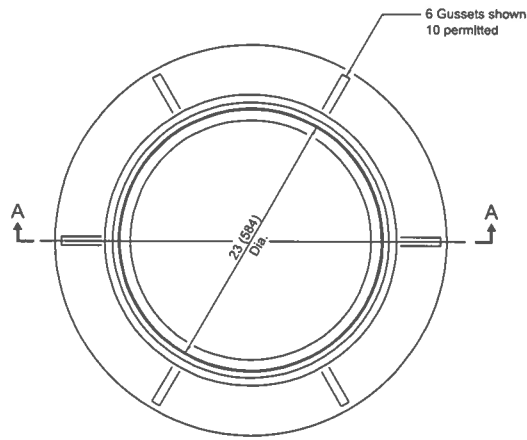
APPROVED January 1, 2011
Scott Smith
 ENGINEER OF DESIGN AND ENVIRONMENT

ISSUED 1-1-07

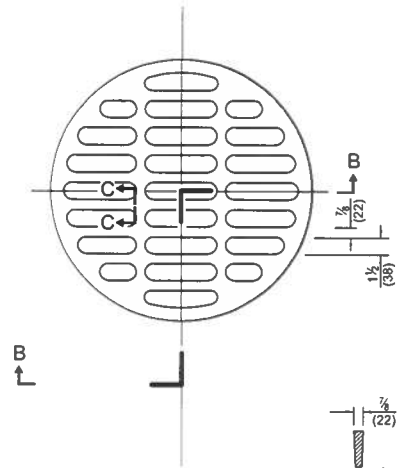
DATE	REVISIONS
1-1-11	Detailed rein. in slabs. Added
	max limit to height. Added
	general notes.
1-1-09	Switched units to English (metric).

**CATCH BASIN
TYPE C**

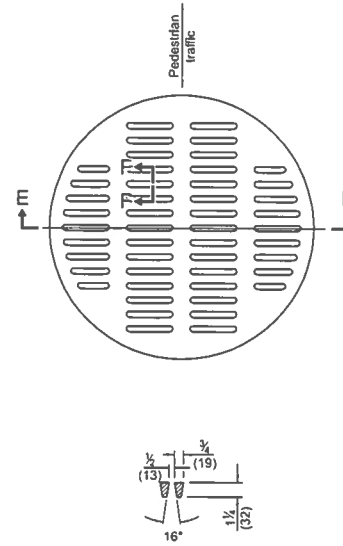
STANDARD 602011-02



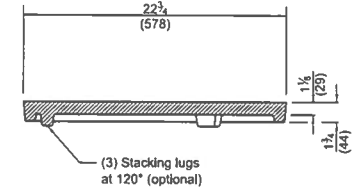
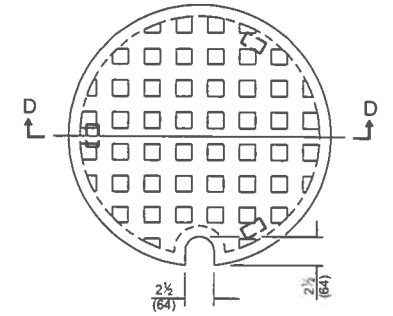
CAST FRAME



SECTION C-C

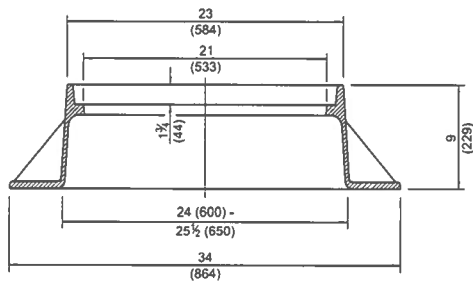


SECTION F-F

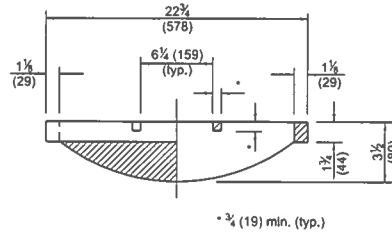


SECTION D-D

CAST CLOSED LID
Gray Iron Lid

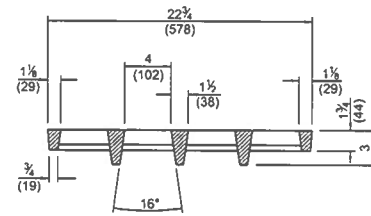


SECTION A-A
Gray Iron



SECTION B-B

CAST OPEN LID



SECTION E-E

**ADA COMPLIANT
CAST OPEN LID**

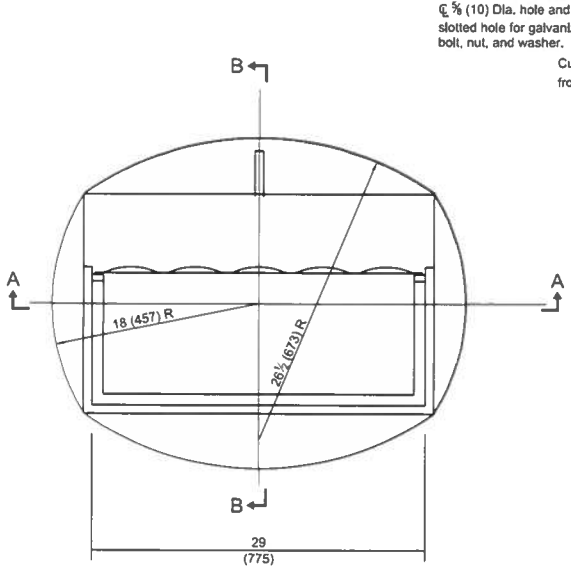
All dimensions are in inches (millimeters)
unless otherwise shown.

Illinois Department of Transportation	
APPROVED January 1, 2020	DESIGN CENTER 16-1-11
<i>[Signature]</i> ENGINEER OF POLICY AND PROCEDURES	
APPROVED January 1, 2020	
<i>[Signature]</i> ENGINEER OF DESIGN AND ENVIRONMENT	

DATE	REVISIONS
1-1-20	Revised dimension in Section B-B of cast open lid.
1-1-15	Revised dimensioning of frame. Added ADA compliant open lid.

**FRAME AND LIDS
TYPE 1**

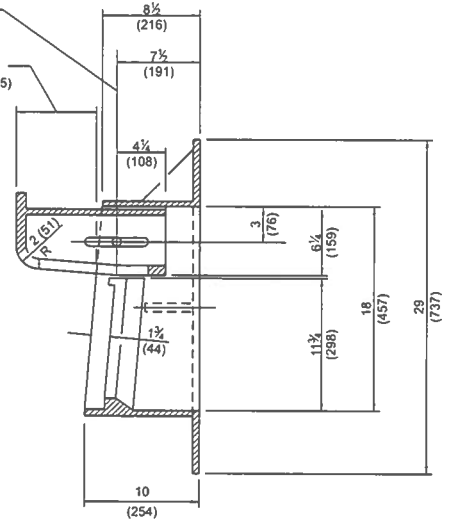
STANDARD 604001-05



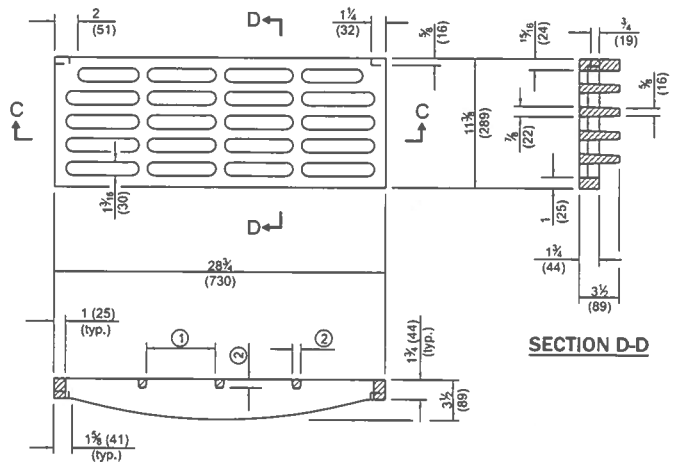
CAST FRAME

Ø 5/8 (10) Dia. hole and 5/8x5 1/2 (16x140) slotted hole for galvanized 1/2 (M12) bolt, nut, and washer.

Curb box adjustable from 4 1/2 (115) to 9 (225)



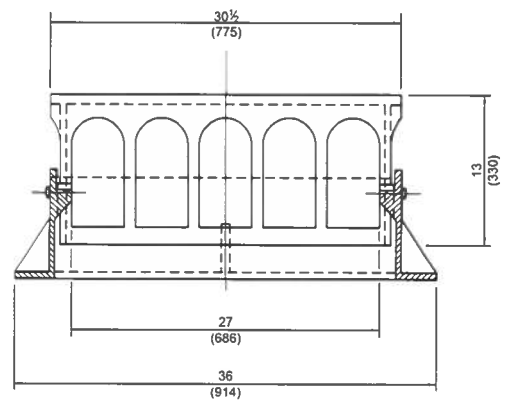
SECTION B-B



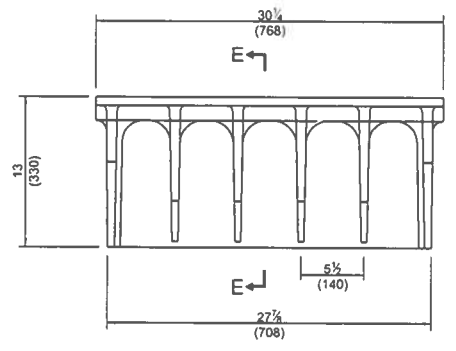
SECTION C-C

- ① = 6 1/4 (159) max. (typ.)
- ② = 3/4 (19) min. (typ.)

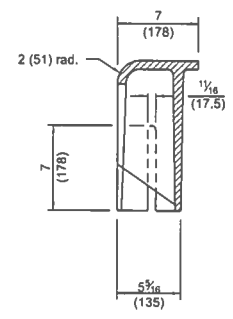
SECTION D-D



SECTION A-A



ALTERNATE CURB BOX



SECTION E-E

CAST GRATE

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

Illinois Department of Transportation

APPROVED January 1, 2015
Mike Beard
 ENGINEER OF POLICY AND PROCEDURES

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

20-11 01/15/15

DATE	REVISIONS
1-1-15	Revised dimensions of frame and alternate curb box.
4-1-09	Switched units to English (metric).

**FRAME AND GRATE
TYPE 11**

STANDARD 604051-04

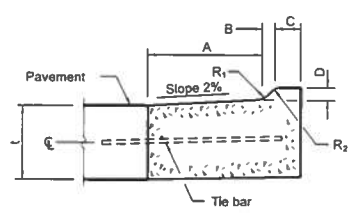
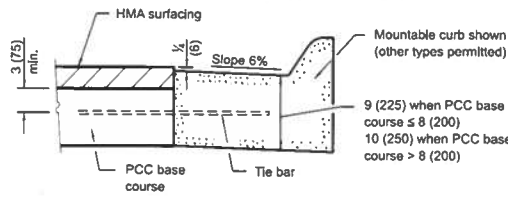
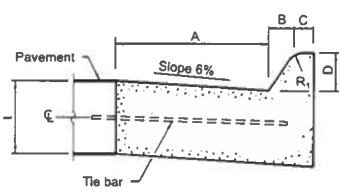
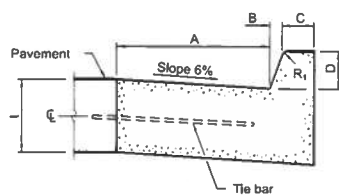
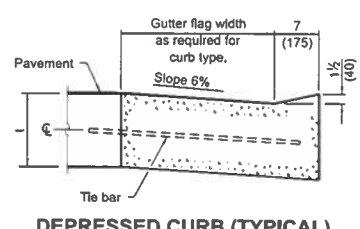
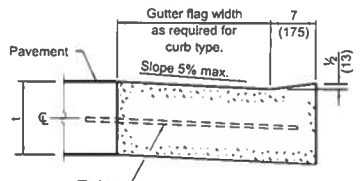
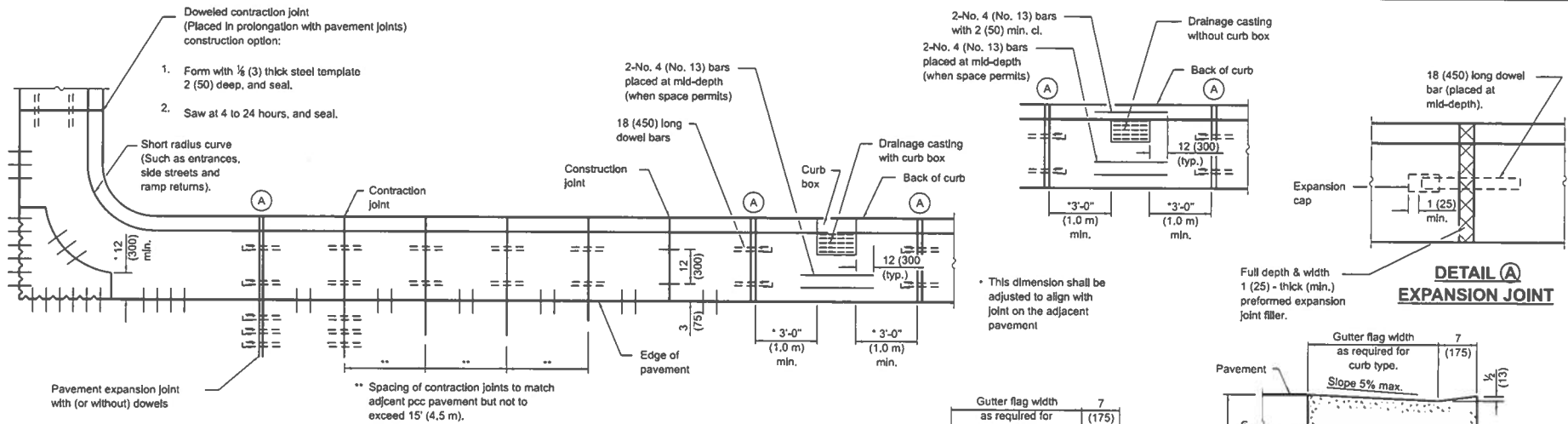


TABLE OF DIMENSIONS BARRIER CURB

TYPE	A	B	C	D	R ₁
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)

TABLE OF DIMENSIONS MOUNTABLE CURB

TYPE	A	B	C	D	R ₁	R ₂
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

Illinois Department of Transportation

APPROVED January 1, 2022

Michael Beard

ENGINEER OF POLICY AND PROCEDURES

APPROVED January 1, 2022

ENGINEER OF DESIGN AND ENVIRONMENT

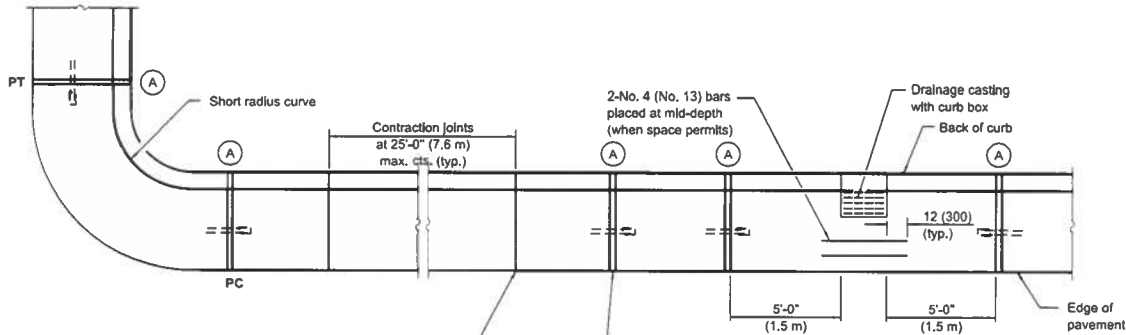
4/8-11 GENSSS

DATE	REVISIONS
1-1-22	Revised contract joint spacing adjacent to pcc pavement.
1-1-18	Revised General Note for tie bar spacing to 36 (900) cts.

CONCRETE CURB TYPE B AND COMBINATION CONCRETE CURB AND GUTTER
(Sheet 1 of 2)

STANDARD 606001-08

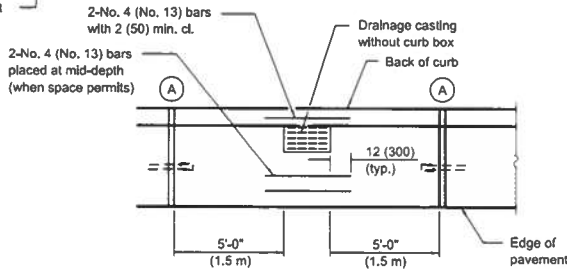
M-2.06 (M-5.15) and M-2.12 (M-5.30)



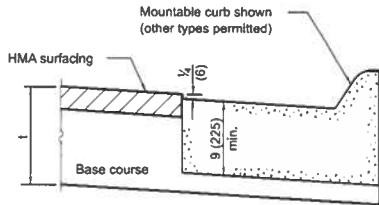
Undoweled contraction joint (typ.) construction options:

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

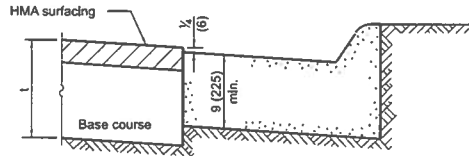
Construction joint



PLAN

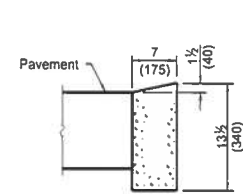


ON DISTURBED SUBGRADE

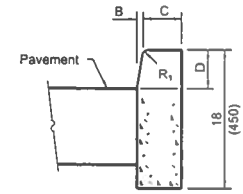


ON UNDISTURBED SUBGRADE

ADJACENT TO FLEXIBLE PAVEMENT

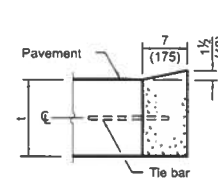


DEPRESSED CURB

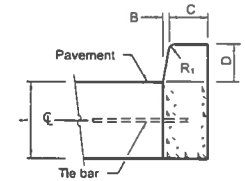


BARRIER CURB

ADJACENT TO FLEXIBLE PAVEMENT



DEPRESSED CURB



BARRIER CURB

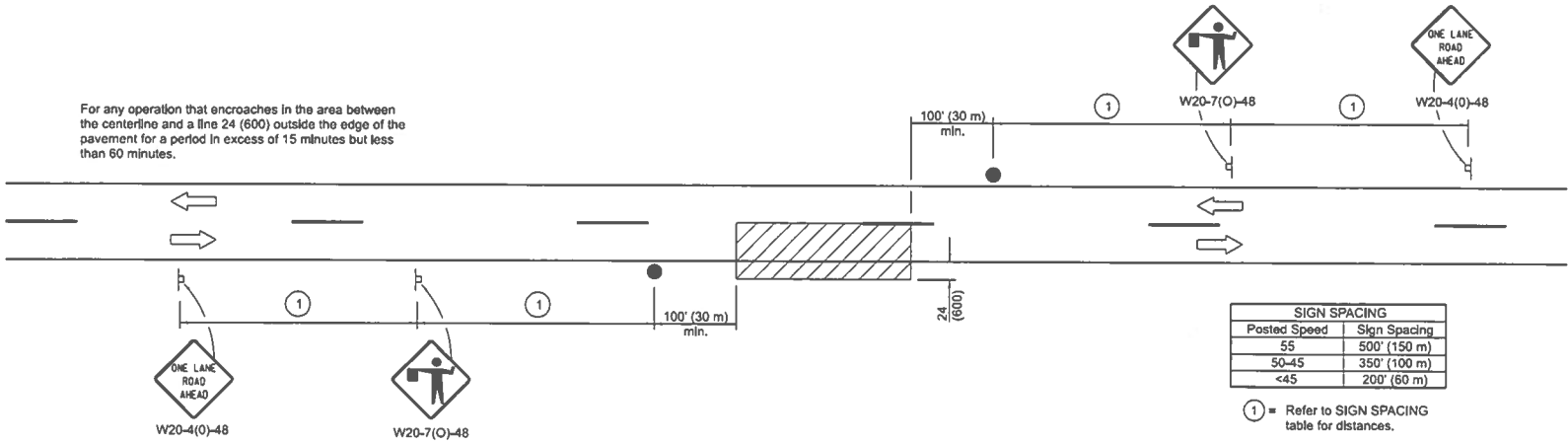
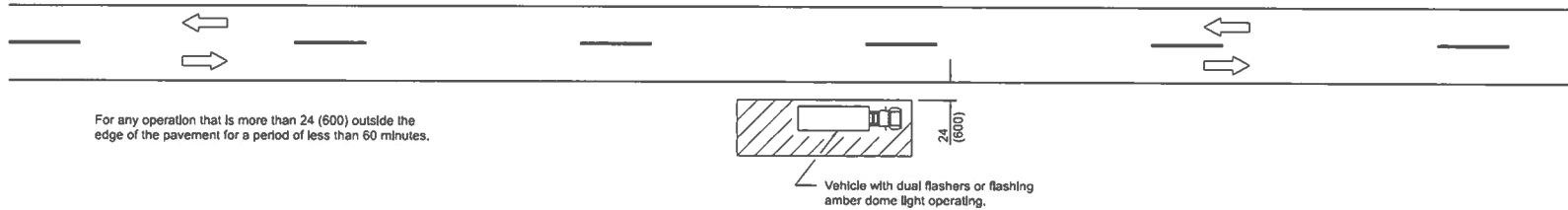
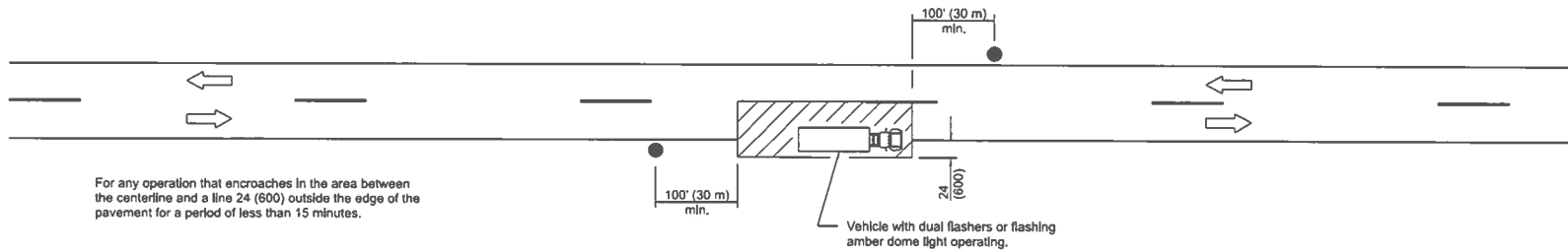
ADJACENT TO PCC PAVEMENT OR PCC BASE COURSE

CONCRETE CURB TYPE B

**CONCRETE CURB TYPE B
AND COMBINATION
CONCRETE CURB AND GUTTER**
(Sheet 2 of 2)

STANDARD 606001-08

Illinois Department of Transportation	
APPROVED <i>Michael Brand</i> ENGINEER OF POLICY AND PROCEDURES	January 1, 2022
APPROVED <i>[Signature]</i> ENGINEER OF DESIGN AND ENVIRONMENT	January 1, 2022
16-11-010528	



TYPICAL APPLICATIONS

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

SYMBOLS

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

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

Illinois Department of Transportation

APPROVED January 1, 2011
James A. King
 ENGINEER OF SAFETY ENGINEERING

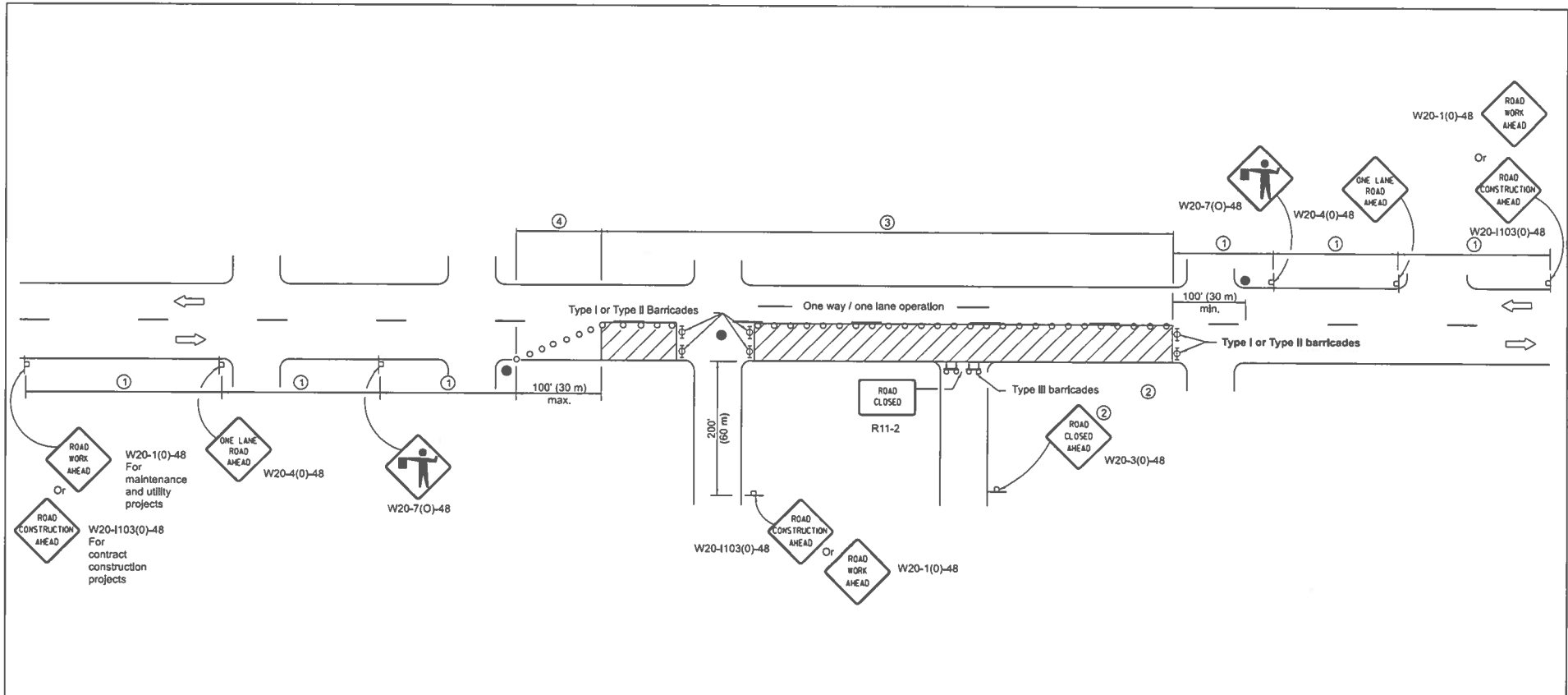
APPROVED January 1, 2011
Jeffrey A. King
 ENGINEER OF DESIGN AND ENVIRONMENT

SECTED 1-1-11

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

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

STANDARD 701301-04



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

SYMBOLS

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

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

GENERAL NOTES

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

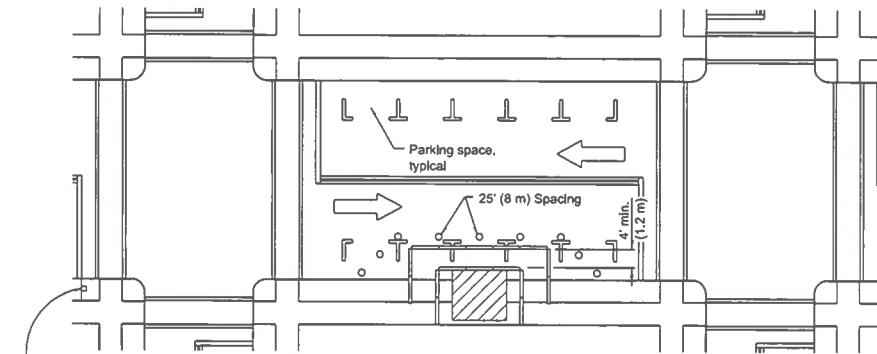
All dimensions are in inches (millimeters) unless otherwise shown.

Illinois Department of Transportation	
APPROVED <i>[Signature]</i> January 1, 2011 ENGINEER OF SAFETY ENGINEERING	16-11, CENTER
APPROVED <i>[Signature]</i> January 1, 2011 ENGINEER OF DESIGN AND ENVIRONMENT	

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

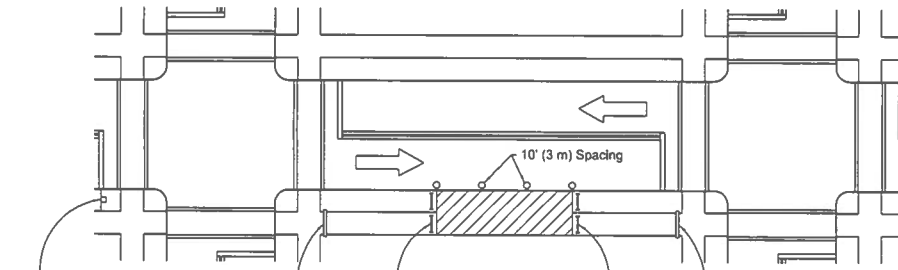
STANDARD 701501-06



① ROAD CONSTRUCTION AHEAD
W20-103(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
W20-103(0)-48 for contract construction projects

Or
① ROAD WORK AHEAD
W20-1(0)-48 for maintenance and utility projects

SIDEWALK CLOSURE

SYMBOLS

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

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.

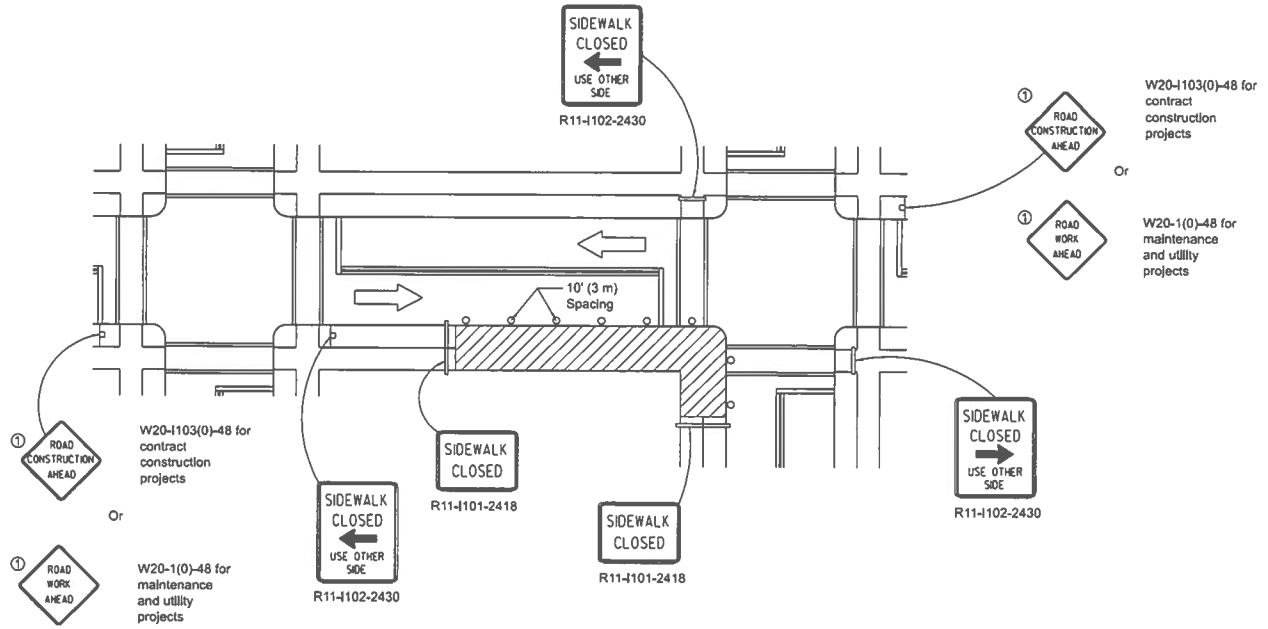
Illinois Department of Transportation	
APPROVED <i>January 3, 2016</i> ENGINEER OF SAFETY ENGINEERING	68-111 CDSSS
APPROVED <i>January 1, 2016</i> ENGINEER OF DESIGN AND ENVIRONMENT	

DATE	REVISIONS
4-1-16	Omitted orange safety fence from standard as this is covered in the standard spec.
1-1-12	Added SIDEWALK DIVERSION.
	Modified appearance of plan views.
	Renamed Standard.

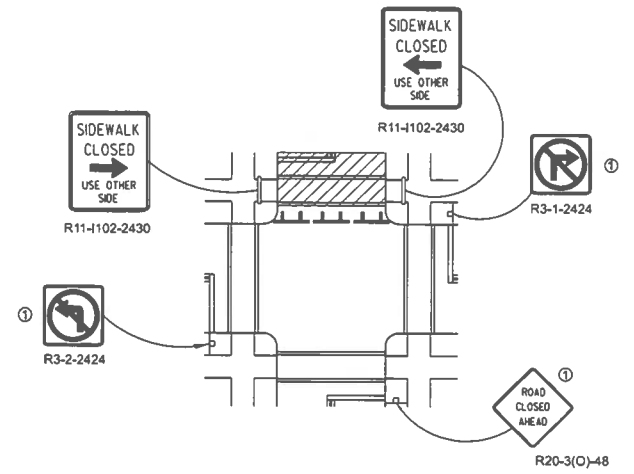
SIDEWALK, CORNER OR CROSSWALK CLOSURE

(Sheet 1 of 2)

STANDARD 701801-06



CORNER CLOSURE



CROSSWALK CLOSURE

SIDEWALK, CORNER OR CROSSWALK CLOSURE

(Sheet 2 of 2)

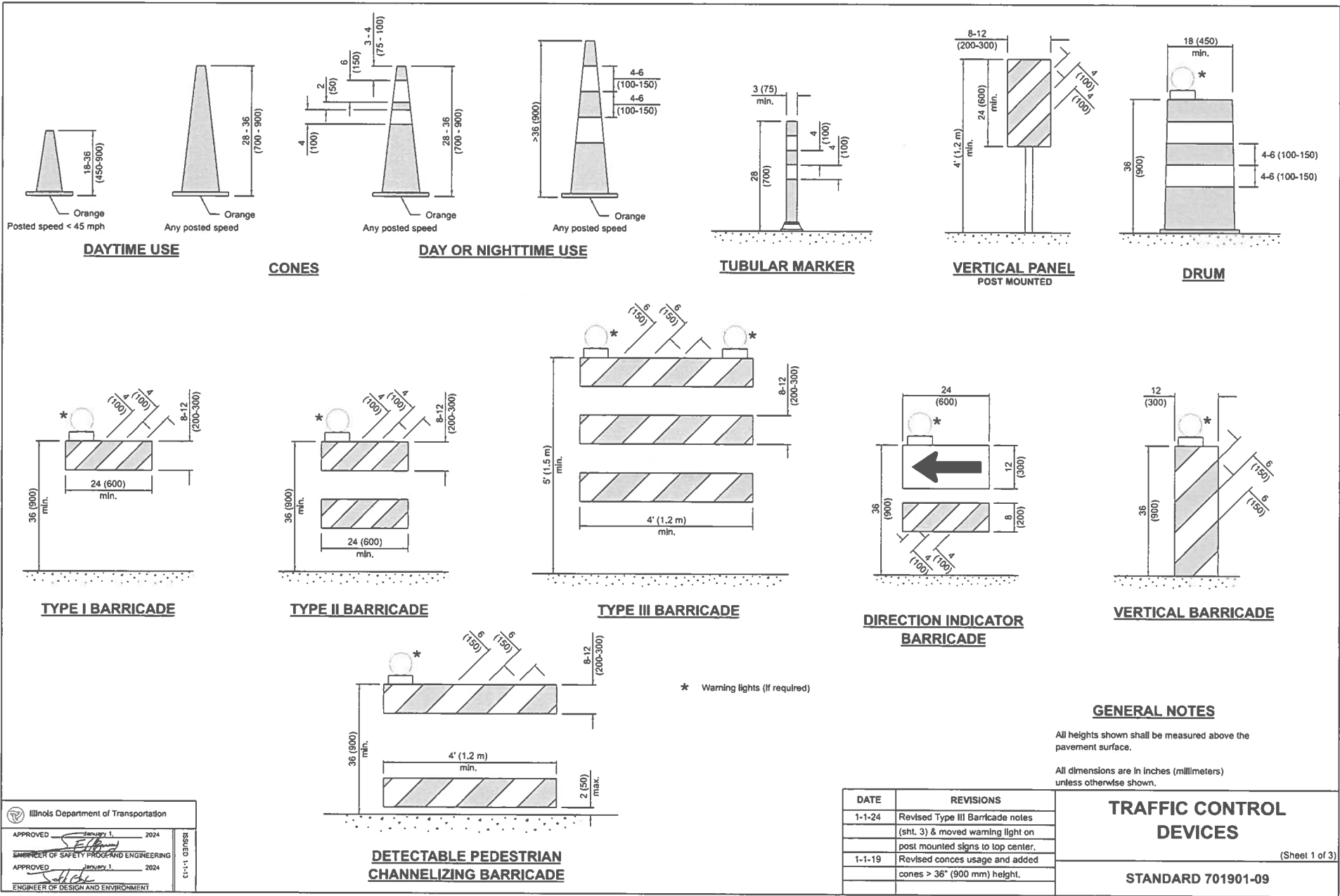
STANDARD 701801-06

Illinois Department of Transportation

APPROVED January 3, 2016
James P. Kelly
 ENGINEER OF SAFETY ENGINEERING

APPROVED February 1, 2016
[Signature]
 ENGINEER OF DESIGN AND ENVIRONMENT

SECTION 161-1.0205



Illinois Department of Transportation

APPROVED January 1, 2024

ENGINEER OF SAFETY PROGRAM AND ENGINEERING

APPROVED January 1, 2024

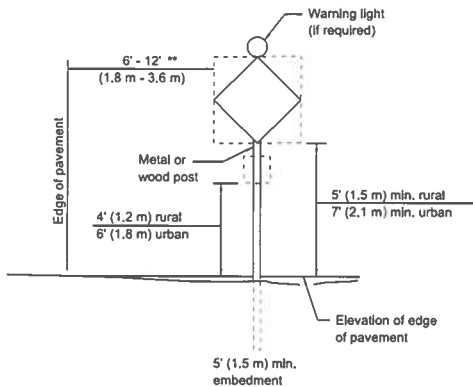
ENGINEER OF DESIGN AND ENVIRONMENT

DATE	REVISIONS
1-1-24	Revised Type III Barricade notes (sht. 3) & moved warning light on post mounted signs to top center.
1-1-19	Revised cones usage and added cones > 36" (900 mm) height.

TRAFFIC CONTROL DEVICES

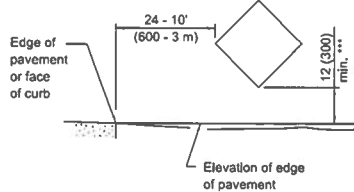
(Sheet 1 of 3)

STANDARD 701901-09



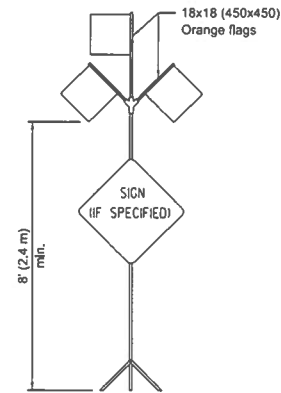
POST MOUNTED SIGNS

** 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.

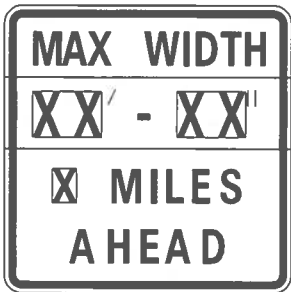


SIGNS ON TEMPORARY SUPPORTS

*** 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.



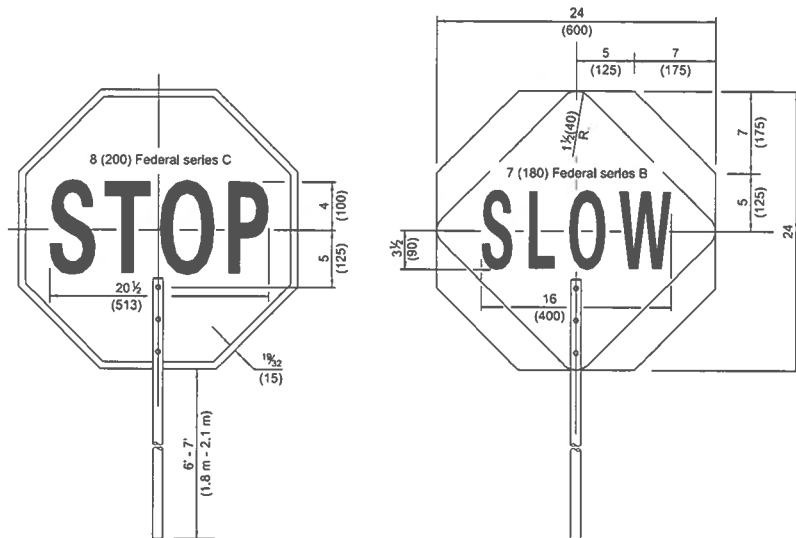
HIGH LEVEL WARNING DEVICE



W12-1103-4848

WIDTH RESTRICTION SIGN

XX'-XX" width and X miles are variable.



FRONT SIDE

REVERSE SIDE

FLAGGER TRAFFIC CONTROL SIGN

ROAD CONSTRUCTION NEXT X MILES

G20-1104(0)-6036

END CONSTRUCTION

G20-1105(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



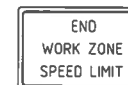
W21-1115(0)-3618

R2-1-3648

R10-1108p-3618 ****

R2-1106p-3618

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



G20-1103-6036

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

HIGHWAY CONSTRUCTION SPEED ZONE SIGNS

**** R10-1108p shall only be used along roadways under the jurisdiction of the State.

TRAFFIC CONTROL DEVICES

STANDARD 701901-09

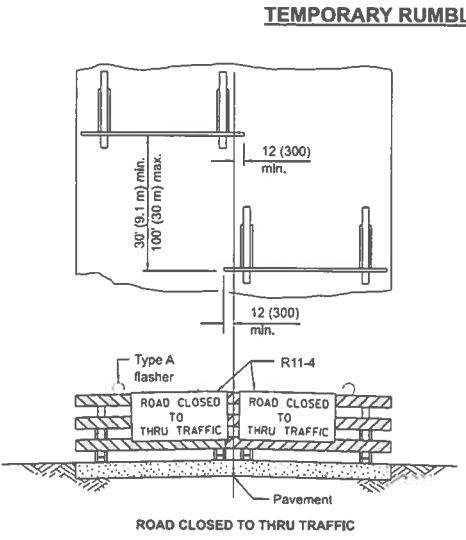
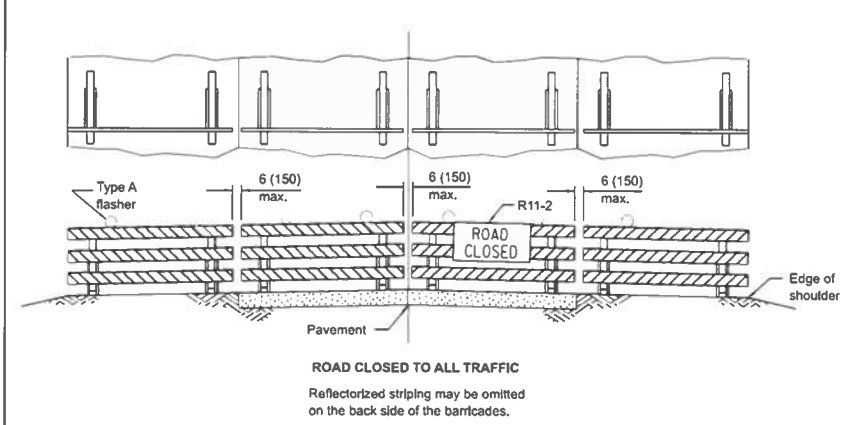
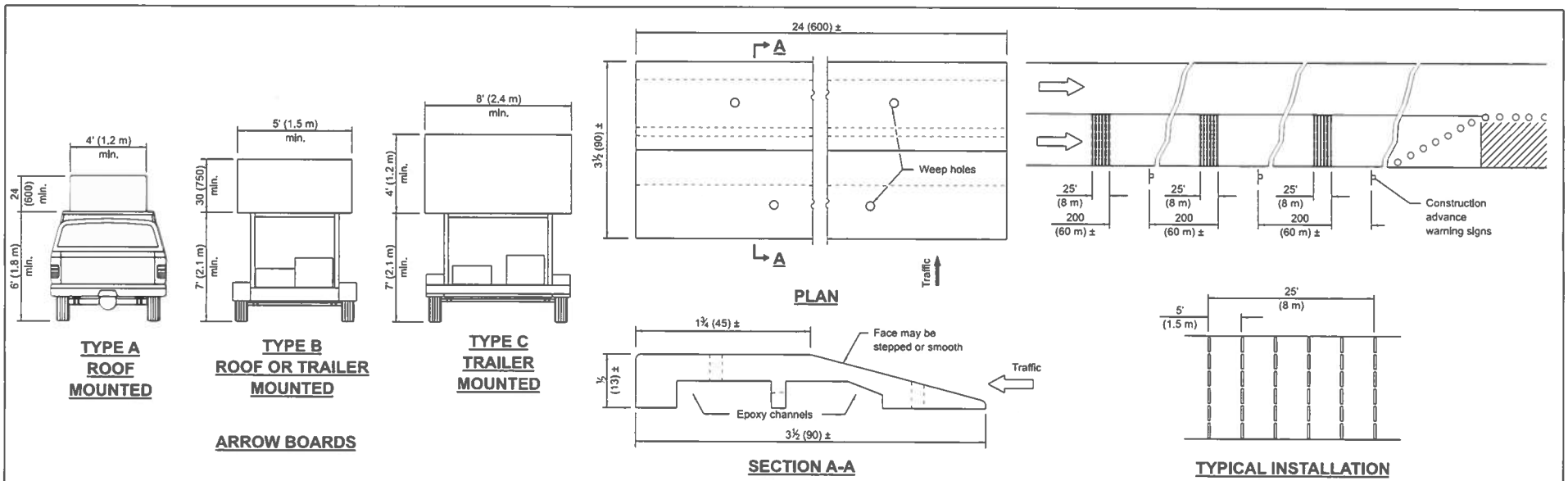
(Sheet 2 of 3)

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ISSUED 01-11-17



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ENGINEER OF DESIGN AND ENVIRONMENT

TYPICAL APPLICATIONS OF TYPE III BARRICADES CLOSING A ROAD

If a Type III barricade with an attached sign panel which meets NCHRP 350 or MASH is not available, the sign may be mounted on an NCHRP 350 or MASH temporary sign support directly in front of the barricade.

TRAFFIC CONTROL DEVICES

STANDARD 701901-09

(Sheet 3 of 3)