Illinois Department of Transportation

Local Public Agency
Formal Contract Proposal

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	22-00547-00-FP

Route(s) (Street/Road Name)	Type of Funds
WALSH AVENUE (TAYLOR St. - DOUGLAS St.)	MFT

☐ Proposal Only ☒ Proposal and Plans ☐ Proposal only, plans are separate

Submitted/Approved
For Local Public Agency:

For a County and Road District Project

Submitted/Approved

Highway Commissioner Signature | Date

Submitted/Approved

County Engineer/Superintendent of Highways | Date

For a Municipal Project

Submitted/Approved/Passed

Signature | Date: 4-27-22

Official Title: MAYOR

Department of Transportation

Released for bid based on limited review

Regional Engineer Signature: Jose Rios / KS | Date: 5-3-22

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	22-00547-00-FP	WALSH AVENUE (TAYLOR St

NOTICE TO BIDDERS

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

150 WEST JEFFERSON STREET, JOLIET, ILLINOIS 60432 - 4158 (Address) until 9:00 AM (Time) on 06/06/22 (Date).

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

150 WEST JEFFERSON STREET, JOLIET, ILLINOIS 60432 - 4158 (Address) at 9:00 AM (Time) on 06/06/22 (Date).

DESCRIPTION OF WORK

Location	Project Length
WALSH AVENUE (TAYLOR St. - DOUGLAS St.)	631

Proposed Improvement

EXCATION OF THE EXSTING ROADWAY, INSTALLATION OF 8" AGG. BASE COURSE, B-6.12 CURB & GUTTER, PCC APRONS, STORM SEWER, TOP SOIL & SOD, AND REPLACEMENT OF PUBLIC SIDEWALK.

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

CITY CLERK - CITY OF JOLIET
150 WEST JEFFERSON STREET

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.

Illinois Department of Transportation

Apprenticeship and Training Program Certification

Local Public Agency	County	Street Name/Road Name	Section Number
CITY OF JOLIET	Will	WALSH AVENUE	22-00547-00-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

Illinois Department of Transportation

Affidavit of Illinois Business Office

Local Public Agency	County	Street Name/Road Name	Section Number
CITY OF JOLIET	Will	WALSH AVENUE	22-00547-00-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

Signature of Notary Public _____

(SEAL)

My commission expires _____

Illinois Department of Transportation

Check Sheet for Recurring Special Provisions

Local Public Agency	County	Section Number
CITY OF JOLIET	Will	22-00547-00-FP

☐ **Check this box for lettings prior to 01/01/2022.**

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

Recurring Special Provisions

Check Sheet #		Reference Page No.
1	☐ Additional State Requirements for Federal-Aid Construction Contracts	1
2	☐ Subletting of Contracts (Federal-Aid Contracts)	4
3	☐ EEO	5
4	☐ Specific EEO Responsibilities Non Federal-Aid Contracts	15
5	☐ Required Provisions - State Contracts	20
6	☐ Asbestos Bearing Pad Removal	26
7	☐ Asbestos Waterproofing Membrane and Asbestos HMA Surface Removal	27
8	☐ Temporary Stream Crossings and In-Stream Work Pads	28
9	☐ Construction Layout Stakes	29
10	☐ Use of Geotextile Fabric for Railroad Crossing	32
11	☐ Subsealing of Concrete Pavements	34
12	☐ Hot-Mix Asphalt Surface Correction	38
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14	☐ Patching with Hot-Mix Asphalt Overlay Removal	41
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18	☐ Temporary Portable Bridge Traffic Signals	48
19	☐ Nighttime Inspection of Roadway Lighting	50
20	☐ English Substitution of Metric Bolts	51
21	☐ Calcium Chloride Accelerator for Portland Cement Concrete	52
22	☐ Quality Control of Concrete Mixtures at the Plant	53
23	☐ Quality Control/Quality Assurance of Concrete Mixtures	61
24	☐ Digital Terrain Modeling for Earthwork Calculations	77
25	☐ Preventive Maintenance - Bituminous Surface Treatment (A-1)	79
26	☐ Temporary Raised Pavement Markers	85
27	☐ Restoring Bridge Approach Pavements Using High-Density Foam	86
28	☐ Portland Cement Concrete Inlay or Overlay	89
29	☐ Portland Cement Concrete Partial Depth Hot-Mix Asphalt Patching	93
30	☐ Longitudinal Joint and Crack Patching	96
31	☐ Concrete Mix Design - Department Provided	98
32	☐ Station Numbers in Pavements or Overlays	99

Local Public Agency	County	Section Number
CITY OF JOLIET	Will	22-00547-00-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

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LRS 1		**Reserved**	101
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LRS 3	☒	Work Zone Traffic Control Surveillance	103
LRS 4	☒	Flaggers in Work Zones	104
LRS 5	☒	Contract Claims	105
LRS 6	☒	Bidding Requirements and Conditions for Contract Proposals	106
LRS 7	☐	Bidding Requirements and Conditions for Material Proposals	112
LRS 8		**Reserved**	118
LRS 9	☐	Bituminous Surface Treatments	119
LRS 10		**Reserved**	123
LRS 11	☒	Employment Practices	124
LRS 12	☐	Wages of Employees on Public Works	126
LRS 13	☒	Selection of Labor	128
LRS 14	☐	Paving Brick and Concrete Paver Pavements and Sidewalks	129
LRS 15	☒	Partial Payments	132
LRS 16	☐	Protests on Local Lettings	133
LRS 17	☒	Substance Abuse Prevention Program	134
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LRS 19	☐	Reflective Crack Control Treatment	136

Special Provisions Checklist

The following SPECIAL PROVISIONS (revision date October 1, 2020) are applicable to this contract and are included by reference. They are available on the City of Joliet Website at:
https://www.joliet.gov/departments/finance/purchasing/special-provisions-general-conditions

1. LOCATION OF IMPROVEMENTS
2. DESCRIPTION OF IMPROVEMENTS
3. PROJECT SCHEDULE
4. MINORITY EMPLOYMENT REQUIREMENTS
5. MATERIAL INSPECTION
6. CONSTRUCTION LAYOUT STAKES
7. PROTECTION OF PROPERTY AND SURFACE STRUCTURES
8. EXISTING UTILITIES
9. TIMELINESS OF WORK
10. PREMIUM TIME
11. PARTIAL PAYMENTS AND RETAINAGE
12. TREE ROOT SAWING
13. PARKWAY EXCAVATION
14. ROADWAY EXCAVATION
15. REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL
16. OVERHAUL
17. TESTING FOR CONTAMINATED MATERIAL
18. REMOVAL AND DISPOSAL OF CONTAMINATED MATERIAL
19. POROUS GRANULAR EMBANKMENT, SPECIAL
20. TRENCH BACKFILL
21. FURNISHING AND PLACING TOPSOIL
22. HARDWOOD MULCH
23. SODDING
24. EROSION CONTROL
25. AGGREGATE BASE COURSE
26. REPAIR AND PREPARATION OF BASE COURSE
27. SAWCUT ASPHALT SURFACE
28. SAWCUT CONCRETE SURFACE
29. ASPHALT/CONCRETE SAWING
30. TEMPORARY DRIVEWAY ACCESS
31. HOT MIX ASPHALT REMOVAL AND REPLACEMENT
32. PORTLAND CEMENT CONCRETE DRIVEWAY PAVEMENT
33. PORTLAND CEMENT CONCRETE SIDEWALK
34. SIDEWALK REMOVAL AND REPLACEMENT
35. DRIVEWAY PAVEMENT REMOVAL
36. LATE SIDEWALK REMOVAL
37. MODULAR CONCRETE BLOCK RETAINING WALL
38. SANITARY SERVICE REPLACEMENT
39. SUMP LINE CONNECTION – VARIOUS SIZES
40. CLEAN OUT STRUCTURE
41. DUCTILE IRON WATER MAIN
42. CONNECT TO WATER MAIN (NON-PRESSURE)
43. MISCELLANEOUS FITTINGS
44. DISCONNECTING OF EXISTING WATER LINE
45. GATE VALVES
46. VALVE VAULT

Special Provisions Checklist

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47. FIRE HYDRANT COMPLETE WITH AUXILIARY VALVE
48. WATER SERVICE CONNECTION
49. WATER SERVICE LINE TYPE K (LEAD ONLY)
50. PROJECT MANAGEMENT (LEAD ONLY)
51. WATER SERVICE CONNECTION ON PRIVATE PROPERTY – BASEMENT OR CRAWL SPACE (LEAD ONLY)
52. WATER SERVICE CONNECTION ON PRIVATE PROPERTY – SLAB (LEAD ONLY)
53. WATER SERVICE LINE TYPE L (LEAD ONLY)
54. UTILITY LOCATION – PRIVATE PROPERTY (LEAD ONLY)
55. WATER METER RELOCATION
56. VALVE VAULT TO BE REMOVED
57. VALVE BOX TO BE REMOVED
58. FIRE HYDRANT TO BE REMOVED
59. WATER METER RELOCATION
60. P.V.C. (POLY VINYL CHLORIDE STORM SEWER, SDR 26
61. FRAME AND GRATE TO BE FURNISHED AND INSTALLED, TYPE II
62. COMBINATION CONCRETE CURB AND GUTTER
63. TRAFFIC CONTROL AND PROTECTION
64. REMOVING AND RESETTING STREET SIGNS
65. ITEMIZED FITTINGS
66. ABANDON EXISTING WATER MAIN

CITY OF JOLIET SUPPLEMENTAL SPECIAL PROVISIONS

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.

1. LOCATION OF IMPROVEMENTS

The location of the project improvements are on Walsh Avenue lying between Taylor Street and Douglas Street.

2. DESCRIPTION OF IMPROVEMENTS

The improvements shall include roadway excavation, the construction of combined curb and gutter, Type B-6.12, P.C.C. driveway aprons, watermain, storm sewer, associated appurtenances and the placement of topsoil and sod.

3. PROJECT SCHEDULE

This contract allows for 35 working days. All work shall be completed within this allotted period of time. If the contractor cannot meet this time constraint an extension may be granted, if justified, by a Formal request for extension that shall be submitted for approval.

4. 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.

5. 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.

6. 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.

7. 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.

8. 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.

9. 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.

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:

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

11. 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.

12. TREE ROOT SAWING

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. 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, measured at each tree where this work is performed.

13. 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.

14. 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.

15. 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.

16. OVERHAUL

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

17. 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.

18. 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.

19. 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:

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

2. Gravel, Crushed Gravel and Pit Run Gravel:

Sieve Size	Percent Passing
*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.

20. 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.

INSERT TRENCH BACKFILL TABLE HERE

21. 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.

22. 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.

23. SODDING

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 May 16 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.

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.

24. 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.

25. 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.

26. REPAIR AND PREPARATION OF BASE COURSE

This work shall consist of repairing the newly placed Aggregate Base Course and preparing the Aggregate Base for Bituminous Binder Course a second time. The initial shaping and compacting of the Aggregate Base shall be included with the Aggregate Base Pay Item, unless specified otherwise in the construction documents.

This work shall be performed as directed by the Engineer in accordance with Section 358 of the "Standard Specifications" with the exception that the contractor will be required to perform this work within three days prior to the re-scheduled placement of the bituminous binder course as designated by the Engineer. The City of Joliet Resident Engineer shall notify the contractor of the scheduled date of bituminous placement a minimum of 5 working days before this work shall be performed.

Method of Measurement:

This work shall be measured per square yard, including Aggregate Base Surface area between the edges of pavements multiplied by the length of roadway.

Basis of Payment:

This work shall be paid for at the contract unit price per square yard for REPAIR AND PREPARATION OF BASE COURSE and shall include reshaping and compacting existing Aggregate Base or furnished Aggregate Base material. The furnishing of additional Aggregate Material shall be paid for by the ton as AGGREGATE BASE REPAIR.

27. 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.

28. 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.

29. 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.

30. 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.

31. HOT MIX ASPHALT REMOVAL AND REPLACEMENT

This item includes the labor, equipment and materials necessary for the removal of the existing roadway and replacement with Hot Mix Asphalt Surface Course, IL 9.5, Mix C, N 50, of the

thickness specified and as shown on the plans. This work shall be performed in accordance with Sections 442 and 406 of the "Standard Specifications".

Basis of Payment:

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

32. 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.

33. PORTLAND CEMENT CONCRETE SIDEWALK

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. 424001-07, 424006-01, 424011-01, 424016-01, 424021-02 & 424026-01. A 24" wide strip of **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 (longitudinally). 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. 18).

34. SIDEWALK REMOVAL AND REPLACEMENT

This work includes furnishing all materials, equipment and labor necessary to remove and install P.C. Concrete Sidewalk in accordance with Section 424 and Section 440 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" X 6" #10/ #10 welded wire fabric. The additional concrete and fabric shall be considered incidental to the cost of this item. All sidewalks shall be placed on a three inch (3") thick sub-base aggregate material meeting Gradation CA-6, which shall be considered incidental to this item.

All sidewalks shall be installed with a 1/4 inch per foot slope toward the street. Sidewalk elevations shall be set so as to maintain a slope of 1/2 inch per foot between the sidewalk and to top of the curb whenever possible. Ramps for the handicapped shall be installed at all intersections as per State Standards No. 424001-07, 424006-01, 424011-01, 424016-01, 424021-02 & 424026-01. A 24" wide strip of **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 (longitudinally). 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.

Method of Measurement

This work will be measured for payment in place and the area computed in square feet.

Detectable warning will be measured for payment in place. The Detectable Warnings shall be installed across the length of the handicap accessible ramp and 24" wide from the back of curb, **only**. No other compensation will be allowed for this work.

Basis of Payment:

This work shall be paid for at the contract unit price per square foot for SIDEWALK REMOVAL AND REPLACEMENT, measured in place.

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

35. DRIVEWAY PAVEMENT REMOVAL

This work includes the removal of existing driveway pavement in accordance with Section 440 of the "Standard Specifications", with the addition of the following: the removal of existing asphalt

driveway surfaces shall be paid with this item. Saw cutting the existing concrete, or asphalt surface will be paid for separately.

Basis of Payment:

This work will be paid for at the contract unit price per square yard for DRIVEWAY PAVEMENT REMOVAL, measured in place, and which price shall include all labor, material, and equipment necessary to complete this work.

36. LATE SIDEWALK REMOVAL

This item shall include all materials, equipment, and labor, required to excavate and dispose of, the existing sidewalk necessary to construct proposed sidewalk, identified after the curb has been installed and backfilled.

Once the proposed curb has been installed, additional sidewalk identified for removal during the curb backfilling operation, shall **not** be considered late sidewalk removal. A minimum of one excavation pass, after curb installation, shall be considered incidental to curb installation, and sidewalk removed shall be paid for as standard sidewalk removal.

On jobs where the City provides trucks and stone, sidewalk removal shall be considered incidental to EQUIPMENT RENTAL. Only sidewalk identified and removed after EQUIPMENT RENTAL has ended shall be considered for LATE SIDEWALK REMOVAL. The hauling and disposal of this sidewalk shall be the Contractor's responsibility and shall be considered incidental to LATE SIDEWALK REMOVAL.

Basis of Payment:

This work will be paid for at the contract unit price per square foot for LATE SIDEWALK REMOVAL.

37. MODULAR CONCRETE BLOCK RETAINING WALL

This work shall include furnishing all materials, equipment, and labor necessary to install Modular concrete Block Retaining Walls in accordance with the manufacturer specifications. Keystone Standard Unit (Grey) or Rockwood- Classic 8", or approved equal interlocking blocks shall be used for construction.

Basis of Payment

This work shall be paid for at the contract unit price per square foot of wall face, including buried portions, for MODULAR CONCRETE BLOCK RETAINING WALL. This work shall also include the cost of the granular backfill and leveling pad.

38. SANITARY SERVICE REPLACEMENT

CASE ONE: Wherever sanitary sewer services are encountered during the course of the work, and are located above but not in conflict with the construction, the Contractor shall replace that portion of the service line spanning the excavation three feet to either side of the trench walls. The replacement material shall be ASTM D3034, SDR 26 of the same diameter as the existing line. The PVC pipe shall be supported on both ends by not less than 3 feet of undisturbed soil. The PVC pipe shall be coupled with the existing sewer on both ends using SHEARLESS TYPE mission couplings or an approved equal.

CASE TWO: Wherever sanitary services are encountered during the course of the work and are in conflict with or within six inches (6") of the proposed sewer line, the Contractor shall replace the existing service line to the extent necessary by vertically adjusting the line within the limits of the right-of-way, so as to resolve the conflict. The replacement material shall be ASTM D3034, SDR 26, of the same diameter as the existing line. The PVC pipe shall be coupled with the existing sewer on both ends with SHEARLESS TYPE mission couplings or an approved equal. This work does not include installing a new service connection to the sewer main, installing a parallel sanitary sewer or adjustments outside of the right-of-way.

Method of Measurement:

This work shall be measured in lineal feet along the top of the sanitary pipe replacement. No separate measurement shall be made for materials including fittings, couplings, concrete or mortar, or for excavation except in rock. Excavation of rock and trench backfill shall be measured for payment in accordance with the contract specifications.

Basis of Payment:

This work will be paid for at the contract unit price per lineal foot for SANITARY SERVICE REPLACEMENT CASE ONE OR SANITARY SERVICE REPLACEMENT CASE TWO. Such payment shall compensate the Contractor for furnishing all labor, equipment, and materials required to satisfactorily complete this work.

39. SUMP LINE CONNECTION - VARIOUS SIZES

This work includes furnishing all materials, equipment and labor necessary to connect sump pump discharge lines into the proposed PVC parkway storm sewer. This includes but is not limited to exposing a solid section of existing pipe behind the ROW line, supplying and attaching the appropriate reducer to mate with the proposed 8" PVC system, supplying any PVC elbows, bends and tee sections required to attach to the main PVC storm sewer line in the parkway.

Basis of Payment:

This work shall be paid for at the contract unit price per each for **SUMP LINE CONNECTION - VARIOUS SIZES**. No other compensation shall be allowed for this work.

40. CLEAN OUT STRUCTURE

This work includes furnishing all materials, equipment, and labor necessary to connect a PVC clean out structure onto the proposed PVC parkway storm sewer as shown in the details. This includes but is not limited to supplying any PVC elbows, bends and "Y" sections required to attach to the main PVC storm sewer line in the parkway, furnish and install the PVC cap at the end of the sewer line for possible future extensions, furnish and install an EJIW Top Flange frame and cover, CAT No. 2790-6 within the bell of the vertical section of the clean out structure - to finish parkway grade.

All 8" PVC storm sewer and fittings shall be measured in line and paid for as **STORM SEWER, PVC SDR 26, 8".** The EJIW frame and cover shall be incidental to the clean out structure.

Basis of Payment:

This work shall be paid for at the contract unit price per each for **CLEAN OUT STUCTURE**. No other compensation shall be allowed for this work.

41. DUCTILE IRON WATER MAIN

All water main materials incorporated into the City of Joliet water system, from the main line to the curb stop including fittings, shall be of Domestic Manufacture (i.e. manufactured *within* the United States) and shall meet all applicable specifications of the *American Water Works Association (AWWA)*. Water mains shall be constructed of ductile iron pipe conforming to AWWA Specifications-21.51 with push-on joints conforming to AWWA Specifications A21.11. Pipe shall be thickness Class 52 with the following minimum wall thicknesses:

Nominal Pipe Size	Wall Thickness
6 Inch	0.31 Inch
8 Inch	0.33 Inch
10 Inch	0.35 Inch
12 Inch	0.37 Inch
16 Inch	0.40 Inch

Cement lining shall be applied in accordance with AWWA Specification C-104. All fittings shall be ductile iron compact mechanical joint rated for 350 PSI and conform to ASA A21.53 or AWWA C153. All fittings shall have ductile iron set screw type retainer glands conforming to ASA A21.53 or AWWA C153 and rubber gaskets conforming to ASA A21.11 or AWWA C111. Pipe shall be laid with five (5) foot minimum cover.

The exterior of ductile iron pipe shall be coated with a layer of arc-sprayed zinc per ISO 8179. The mass of the zinc applied shall be 200 grams per square meter of pipe surface area. A finishing layer of asphaltic coating shall be applied over the zinc coating. The mean dry film thickness of the finishing coat shall not be less than 3 mils, with a local minimum not less than 2 mils. The coating system shall conform in every respect to ISO 8179-1 "Ductile iron pipes - External zinc-based coating - Part 1: Metallic zinc with finishing layer. Second edition 2004-06-01".

Unless otherwise shown on the plans, polyethylene protective wrapping (Polywrap) for ductile iron pipe shall be furnished and installed on all buried water lines, except where water lines within steel casing pipe, in accordance with the requirements of AWWA Standard C105. Polywrap shall be linear low-density polyethylene film (minimum 8 mils) or high-density cross laminated polyethylene film (minimum 4 mils). Markings shall include manufacturers name or trademark, year of manufacture, min. film thickness and material type (LLDPE or HDCLPE), applicable range of nominal pipe diameter size(s), and "Warning – Corrosion Protection – Repair Any Damage." The Polywrap shall be taped to provide a snug fit along the pipe. Any punctures, tears or other damage shall be patched with polyethylene wrap and tape. Openings for service taps, blow-offs, or similar appurtenances shall be cut in the polywrap during backfilling of the trench. Rock or other material that could damage the wrapping shall not be allowed in the backfill. The inside surface of the polyethylene wrap to be in contact with the pipe exterior shall be infused with a blend of anti-microbial biocide to mitigate microbiologically influenced corrosion and a volatile corrosion inhibitor to control galvanic corrosion. The polywrap furnished and installed shall not be paid separately, but shall be considered incidental to the cost of the ductile iron water main.

Removal and replacement of material, including unsuitable material, to a depth of one foot below the bottom of the pipe barrel is considered incidental to construction and no addition to the contract will be allowed. Over excavation, and removal and replacement of unsuitable materials with CA-1 greater than one foot below the bottom of the pipe barrel will be paid for in a separate Pay Item.

All ductile iron water main pipes shall have brass wedges inserted at all joints for continuity to allow surface tracing by pipe locator. Use two (2) wedges per joint for pipes 12 inches or smaller, and four (4) wedges per joint for pipe sizes larger than 12 inches.

Basis of Payment:

Water main shall be listed in the bid items by size and type which shall be measured in lineal feet along the center without deduction for valves and fittings. Embedment up to one foot above the pipe shall be included in the cost per lineal feet of water main. **All restrained joint type fittings shall be included in the cost per lineal foot of water main unless otherwise noted on the plans**. Additional fittings not anticipated shall be paid for as miscellaneous fittings measured in pounds. When the water main terminates in a hydrant, valve or other main connection, measurement shall be from the center of the hydrant valve or main connection. This item shall be paid for at the contract unit price per lineal foot for DUCTILE IRON WATERMAIN of the type and size specified, regardless of depth.

42. CONNECT TO WATER MAIN (NON-PRESSURE)

The work of this Pay Item consists of connecting to existing water mains, including removal of existing plugs; cutting, removing, and plugging existing mains; all required fittings; thrust blocking; excavation; bracing; bedding and covering of pipe; trench dewatering; trench backfilling with excavated materials; testing; disinfection; finish grading; removal and disposal of waste excavated materials; protection, replacement, or repair of utilities; including backfilling with compacted granular backfill materials where required.

Make one connection at a time except as approved by the Engineer. Do not operate the valves on the existing mains. Coordinate shutdown of existing mains with the City's Public Utilities Department with a minimum of 48 hours' notice prior to shut down.

This Pay Item includes installation and removal of temporary thrust blocking and temporary plugs and coordination of shutdown of main with Owner and Engineer during final connection.

Basis of Payment:

The work will be paid for at the Contract unit price for each CONNECTION TO EXISTING WATER MAIN (NON-PRESSURE) of the pipe sizes.

43. MISCELLANEOUS FITTINGS

Any additional fittings necessary to alter or adjust the water main or force main as directed by the Engineer shall be measured in pounds to be paid for at the contract unit price per pound for MISCELLANEOUS FITTINGS. All fittings shown or inferred by the plans shall be incidental. However, any fitting indicated on the plans which is deleted will be credited against any claim for payment under this provision, pound for pound. The owner shall not in any case request a net credit under this provision.

Basis of Payment:

The work will be paid for at the contract unit price per pound for MISCELLANEOUS FITTINGS, as needed.

44. 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 $7,500.00 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.

45. GATE VALVES

Gate Valves (3-inch through 14-inch) shall comply with AWWA C515 (ductile iron body), bronze fitted, resilient wedge and seat type with non-rising stem and O-ring packing. Provide gear operator for 14-inch valves.

Use A-304 stainless steel bolts with nuts and washers of series 300 stainless steel per ASTM A194.

Provide mechanical joint ends for buried valves and ANSI Class 125 flange ends or mechanical joint ends for valve installed in vaults as indicated on the Drawings. Provide restrained type joints for all mechanical joint end valves.

Acceptable valve manufacturers: American Flow Control, Clow, EJ, or approved equal.

Gate valves shall be installed vertical and plumb. All valves shall be installed in 5-1/4 inch cast iron valve boxes unless otherwise specified. Valve boxes shall be installed with a plastic centering guide and adjusted to grade. The valve box cover shall bear the legend "WATER".

Basis of Payment:

This work will be paid for at the contract unit price each for GATE VALVE of the size specified, and shall include all material, equipment and labor necessary to install the valve and trench backfill at least one foot above the top of the pipe and valve.

46. VALVE VAULT

The work of this Pay Item consists of the installation of valve vaults complying with ASTM C478 during water main installation complete in place as on plan details, including sawcutting, removal and disposal of existing pavements; excavation in excess of that required for standard pipeline trench construction; removal and disposal of waste excavated materials; bracing, sheeting, and shoring; protection, replacement, or repair of utilities; dewatering, including erosion and sedimentation control methods and devices to provide protection to the environment from all pumping operations; vault bedding; monolithic type vault base with watertight flexible pipe connectors where pipes enter vault wall; manhole risers as required to provide proper depth; concentric cone or flat top cover; frame and cover adjusting rings; frame and cover; steps; backfilling with compacted excavated materials in parkways, and compacted granular materials under pavements; and including frame and cover adjustment to final grade at time of street or parkway restoration.

Provide precast reinforced concrete manhole sections, bottoms, and flat top slabs complying with ASTM C478 unless otherwise indicated on Drawings. Provide concentric cone section for gate valves. Provide eccentric cone section for butterfly valves. Provide precast reinforced concrete monolithic or separate base. Design flat slab tops for AASHTO HS20-44 wheel loading.

Provide 4000 psi concrete using Type I Portland Cement complying with ASTM C150.
Mortar: Mix one part Portland Cement to three parts fine aggregate.

Provide joints of either flexible watertight rubber gaskets or preformed bituminous plastic gaskets consisting of a homogeneous blend of refined hydro-carbon resins and plasticizing compound

reinforced with inert mineral filler. Acceptable preformed gasket products: Henry Company, RN103 – RAM-NEK Preformed Flexible Plastic Gasket (Coils). ConSeal Concrete Sealants, Type CS-102. Or equal. E.

Provide steps with a minimum width of 12 inches and a minimum projection of 5 inches. Use steps consisting of copolymer polypropylene plastic with a continuous ½-inch steel reinforcement as manufactured by M.A. Industries, Inc. cast iron steps, Neenah R-1980-I, or equal.

Provide cast iron frames and covers with heavy duty, indented top, with solid self-sealing lids and machined bearing surfaces, stamped with the word "WATER" and "CITY OF JOLIET". Acceptable products: (1) East Jordan 1050Z1 (2) Neenah R1710 (3) Or equal. G.

Provide flexible rubber gasket collar for connecting pipe to the manhole. Comply with ASTM C-923. For pipe 24-inch and smaller, use PSX gasket system by PressSeal Gasket Corporation, or equal. For pipe 27-inch and larger, use resilient gasket by A-LOK Products, Inc., or equal.

This Pay Item includes providing vaults of sufficient depth to provide the standard depth of cover indicated on the drawings, plus two feet, measured from the top of the water main to the top of the frame and cover. If depth of cover is 6 feet, vaults to a depth of 8 feet from top to main to top of frame and cover will be installed with no addition to the contract allowed. Where deeper vaults are installed, the cost for additional manhole risers required will be paid for in a separate Pay Item.

This Pay Item includes providing exterior joint protection on all valve vaults.

Basis of Payment:
The work will be paid for at the Contract unit price for each VALVE VAULT, of the size indicated.

47. FIRE HYDRANT COMPLETE WITH AUXILIARY VALVE

Fire hydrants shall conform to AWWA C502-85. All hydrants shall be furnished with 6-inch flanged connections. All hydrants shall have a 5 ¼-inch valve opening; open left. All hydrants shall be provided with one 4 ½-inch NST steamer connection and two 2 ½-inch NST hose connections. Hydrants shall be painted red. One-quarter cubic yard of coarse, washed, glacial gravel shall be placed at the base of the hydrant to provide for drainage.

Fire hydrants shall be measured for payment as an installed unit complete with accessories. Accessories include a 6-inch gate valve and valve box connected between the watermain and the fire hydrant. This work shall also include any vertical adjustment required to position the center of the steamer nozzle at least 18 inches above ground level. The hydrant shall be installed with traffic flange positioned as per manufacturer's installation instructions. Hydrants shall be Mueller Centurion A423 or Clow Medallion or E.J.I.W. 5BR250. All fire hydrants shall be new, manufactured either in the year that construction begins or the previous year.

Paint fire hydrants in colors selected by the Owner. Municipal treated water: red. Raw water: green. Private systems: yellow.

Basis of Payment:

This work shall be paid for at the contract unit price each for FIRE HYDRANT COMPLETE WITH AUXILIARY VALVE and shall include all materials, equipment and labor necessary to install the fire hydrant and trench backfill at least one foot above the top of the pipe and hydrant.

48. WATER SERVICE CONNECTION

The work of this Pay Item consists of connecting water service lines to the water mains complete in place, including service saddles; corporation stops; curb stops; service boxes; all required fittings, and including backfilling with granular backfill materials at pavement locations.

Service saddles: Provide service saddles on all water mains for services greater than 1-inch. Ductile iron, epoxy coated bodies with double alloy steel straps and double bolts (four bolts total).

This Pay Item includes connecting to the curb stop within meter pits, where meter pits are encountered. Notify the City's Public Utilities Department if existing lead water services are discovered.

Basis of Payment:

The work will be paid for at the contract unit price each for WATER SERVICE CONNECTION, of the service pipe sizes and type noted.

49. WATER SERVICE LINE TYPE K (LEAD ONLY)

The work of this Pay Item shall include furnishing and installing all materials required to lay water service piping in accordance to Sections 41-2.11c and 41-2.12 of the "Standard Specifications for Water and Sewer Construction in Illinois 5th Edition". The work consists of water service pipe complete in place, by horizontal directional drilling method and open cut method, including excavation; bracing; bedding and covering of pipe; trench dewatering; trench backfilling with excavated materials; testing; disinfection; finish grading; removal and disposal of waste excavated materials; protection, and replacement or repair of utilities. Embedment up to one foot above the pipe and earthen backfill shall be included in the cost per lineal feet of water service line. Water service will be installed by horizontal directional drilling method under street pavements and for all rear yard service replacements, and open cut methods at connection points to water main and existing service pipe. The open cut method includes backfilling with compacted granular backfill materials. All service lines shall have a minimum depth of 54", unless otherwise approved by the Engineer. Installing new services in excess of 5 feet of cover in order to cross existing mains, provide for future improvements or cross below sewer lines is considered incidental to the installation of the service, and no addition to the contract will be allowed. Contractor may choose to install short side water services via open cut method. However, costs to replace the curb and sidewalk including trench backfill for short side services shall be considered incidental to the contract.

Method of Measurement:

The work will be measured in lineal feet along the centerline of the pipe.

Basis of Payment:

The work will be paid for at the Contract Unit Price per lineal foot for WATER SERVICE LINE TYPE K – OPEN CUT or WATER SERVICE LINE TYPE K – DIRECTIONAL DRILLING of the water service sizes specified.

50. PROJECT MANAGEMENT (LEAD ONLY)

The work of this Pay Item shall include all supervision work associated with coordinating and performing the water service installation at a given property. This item is only applicable when an existing lead service is discovered and where water service work on private property is required. A two hour allotment will be allowed for each property. This work will include contacting the owner, meeting with the property owner to layout the installation, obtaining property owner signature on

City agreement form, payment plan, no participation form or sample refusal form, providing City with sketch of proposed and as-built installation, scheduling the work and any follow-up meetings to explain the installation. No additional compensation will be allowed for the management of the project.

Photographs or video shall be taken at each property prior to the start of construction work to document the pre-existing conditions. Monthly invoices should provide a breakdown of items and cost per property. Costs associated with preparing this breakdown shall be incidental to the contract.

Basis of Payment:
This work will be paid for up to 2 hours for each property where a water service is installed on private property at the Contract Unit Price per hour for PROJECT MANAGEMENT. No additional compensation will be allowed.

51. WATER SERVICE CONNECTION ON PRIVATE PROPERTY – BASEMENT OR CRAWL SPACE (LEAD ONLY)

This item shall include furnishing and installing all materials required to connect to the existing water service on interior of home up to the water meter where lead water services are discovered. The Contractor shall core drill the existing foundation wall to allow for penetration by the 1" copper water service pipe. The Contractor shall install a PVC sleeve in the foundation to protect the copper service pipe. The interior and exterior of the cored hole shall be completely sealed with hydraulic cement to prevent water infiltration. The Contractor shall exercise caution to prevent damaging the existing foundation. The Contractor shall be responsible for repairing any damage to the foundation caused by the coring operation. The Contractor shall be responsible for moving and restoring any items on the interior of the home that infringe upon the work. The Contractor is responsible for any modifications to the interior plumbing necessary to install new water service. New interior water shut-off valves (ball valves) shall be installed on either side of meter. If existing meter is determined to be in need of replacement, Contractor shall install new meter provided by City.

The Contractor shall be responsible for removing any debris generated by the work on the interior and exterior of the building and restore the area around the water service as nearly as practicable to its original condition. This work shall also include abandoning the existing water service line in place. The existing plumbing shall be capped. This work shall include all labor, equipment and materials required to excavate and crimp existing water service in order to complete interior water service connection at locations approved by Engineer where both the curb stop and interior shut-off are broken or where curb stop cannot be located. This work will be considered incidental.

This work shall consist of the removal and re-erection of fence segments as necessary to complete the work. The fence shall be removed so that all materials considered suitable by the Engineer for future use will be salvaged. The salvaged material shall be stored at locations and in a manner approved by the Engineer. Any of the material having salvage value and which has been damaged by the Contractor, shall be replaced by the Contractor at his/her own expense with new material of the same kind. The salvaged fence shall be re-erected in accordance with Section 664 of the "Standard Specifications". This work will be considered incidental.

Basis of Payment:
The work will be paid for at the Contract Unit Price for each WATER SERVICE CONNECTION ON PRIVATE PROPERTY – BASEMENT OR CRAWL SPACE.

52. WATER SERVICE CONNECTION ON PRIVATE PROPERTY – SLAB (LEAD ONLY)

This item shall include furnishing and installing all materials required to connect to the existing water service on interior of home up to the water meter where lead water services are discovered.

The Contractor shall saw cut and remove a portion of the slab or core drill the slab to allow for penetration by the 1" copper water service pipe at the existing water service location. The Contractor shall install a PVC sleeve in the foundation when restoring the slab to protect the copper service pipe. The interior and exterior of the cored hole shall be completely sealed with hydraulic cement to prevent water infiltration. The Contractor shall exercise caution to prevent damaging the existing foundation. The Contractor shall be responsible for repairing any damage to the foundation caused by the work. The Contractor shall be responsible for moving and restoring any items on the interior of the home that infringe upon the work. The Contractor is responsible for any modifications to the interior plumbing necessary to install new water service. New interior water shut-off valves (ball valves) shall be installed on either side of meter. If existing meter is determined to be in need of replacement, Contractor shall install new meter provided by City.

The Contractor shall be responsible for removing any debris generated by the work on the interior and exterior of the building and restore the area around the water service as nearly as practicable to its original condition. 3. This work shall also include abandoning the existing water service line in place. The existing plumbing shall be capped. This work shall include all labor, equipment and materials required to excavate and crimp existing water service in order to complete interior water service connection at locations approved by Engineer where both the curb stop and interior shut-off are broken or where curb stop cannot be located. This work will be considered incidental.

This work shall consist of the removal and re-erection of fence segments as necessary to complete the work. The fence shall be removed so that all materials considered suitable by the Engineer for future use will be salvaged. The salvaged material shall be stored at locations and in a manner approved by the Engineer. Any of the material having salvage value and which has been damaged by the Contractor, shall be replaced by the Contractor at his/her own expense with new material of the same kind. The salvaged fence shall be re-erected in accordance with Section 664 of the "Standard Specifications". This work will be considered incidental.

Basis of Payment:
The work will be paid for at the Contract Unit Price for each WATER SERVICE CONNECTION ON PRIVATE PROPERTY – SLAB.

53. WATER SERVICE LINE TYPE L (LEAD ONLY)

This work shall include furnishing and installing all materials required to connect existing interior plumbing to new water service location. All fittings required to complete this work shall be considered incidental.

Basis of Payment:
The work will be paid for at the Contract Unit Price per lineal foot for WATER SERVICE LINE TYPE L for the size specified.

54. UTILITY LOCATION – PRIVATE PROPERTY (LEAD ONLY)

This work shall include all labor, equipment and materials associated with locating the existing water and sewer services on private property. Where locates are not provided for the water service, sewer service, or buffalo box, the Contractor shall complete locating services for means of installing new service line.

Basis of Payment:

The work will be paid for at the Contract Unit Price for each UTILITY LOCATION – PRIVATE PROPERTY.

55. WATER METER RELOCATION

This work shall include all labor and materials required to relocate existing water meter to new water service entry point into home. Meter shall be located immediately upon entrance of the service pipe into the home approximately 3' off the ground. Meter shall be installed such that it is accessible for maintenance. Contractor to provide and install new shut-off valves (ball valves) on each side of the meter, drain connection between two shut-off valves, and #4 solid copper grounding wire between upstream and downstream with bronze ground clamps. Contractor shall install AMR wire to outside face of building. AMR wire will be provided to Contractor by City. City staff will relocate AMR. This pay item is only applicable when new water service location is required.

Basis of Payment:

The work will be paid for at the Contract Unit Price for each WATER METER RELOCATION.

56. VALVE VAULT TO BE REMOVED

This work shall include all labor, materials, and equipment necessary to remove the frame and cone section of the vault. Remainder of the vault is to be filled with trench backfill which will be considered incidental to this item. Contractor shall be responsible for off-site disposal of valve vault.

Basis of Payment:
This work will be paid for at the contract unit price each for VALVE VAULT TO BE REMOVED.

57. VALVE BOX TO BE REMOVED

This work shall include all labor, materials, and equipment necessary to remove an existing valve box in its entirety as shown on the plans. Contractor shall be responsible for off-site disposal of valve box.

Basis of Payment:
This work will be paid for at the contract unit price each for VALVE BOX TO BE REMOVED.

58. FIRE HYDRANT TO BE REMOVED

This item shall be performed in accordance with the applicable portion of Section 564 of the Standard Specifications.

This work shall include all labor, materials, and equipment necessary to remove an existing fire hydrant and relocate it to the City of Joliet Water Department Maintenance Facility at 921 E. Washington Street. All pipe and valves to remain from the tee to the fire hydrant, shall be restrained with tie rods, friction clamps, ductile lugs or other restraint systems approved by the Engineer, prior to the removal of the fire hydrant. The City will not shut off the watermain unless the auxiliary valve cannot provide a sufficient shut off to perform the work.

Basis of Payment:

This work will be paid for at the contract unit price each for FIRE HYDRANT TO BE REMOVED. All fittings required to complete this work shall be included in the unit price to the remove the fire hydrant.

59. WATER METER RELOCATION

This work shall include all labor and materials required to relocate existing water meter to new water service entry point into home. Meter shall be located immediately upon entrance of the service pipe into the home approximately 3' off the ground. Meter shall be installed such that it is accessible for maintenance. Contractor to provide and install new shut-off valves (ball valve) on each side of the meter, drain connection between two shut-off valves, and #4 solid copper grounding wire between upstream and downstream with bronze ground clamps. Contractor shall install AMR wire to outside face of building. AMR wire will be provided to Contractor by City. City staff will relocate AMR.

Basis of Payment:
The work will be paid for at the contract unit price each for WATER METER RELOCATION.

60. P.V.C. (POLY VINYL CHLORIDE STORM SEWER, SDR 26)

The P.V.C. pipe shall conform to ASTM D3034, SDR 26. Pipe conforming to ASTM D3034 shall be made of P.V.C. Plastic having a minimum cell classification of 12454B, shall have a minimum pipe stiffness of 5 percent deflection at 115 lbs. per inch and shall withstand flattening to where the distance between the plates is twice the wall thickness plus 5 percent of the inside diameter, in accordance with the "Standard Specifications".

All material shall be protected from ultraviolet degradation until placed in trench and backfilled.

Construction of PVC Storm Sewer 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 P.V.C. SDR 26 of the type and size specified, measured in place. This price shall include the cost of all pipe fittings required, all other materials, except trench backfill within the limits of the specified trench, and all sheeting and shoring 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.

61. FRAME AND GRATE TO BE FURNISHED AND INSTALLED, TYPE II

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.

62. 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 $\pm$ 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.

63. 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.

64. 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.

65. ITEMIZED FITTINGS

All water main and fittings shall be Ductile Iron Cement Lined Class 52 with rubber gasket push-on joints in accordance with ANSI A-21.51.

All mechanical joint fittings to be provided with a set screw type retainer glands. Retainer glands are required on all Elbows, tees, Crosses, Valves, Hydrants, and Auxilliary Valves.

Basis of Payment

This work shall be paid for at the contract unit price per each 8"x 8" tee.
This work shall be paid for at the contract unit price per each 8" x 6" tee.
This work shall be paid for at the contract unit price per each 6" x 6" tee
This work shall be paid for at the contract unit price per each 10" cutting in sleeve.

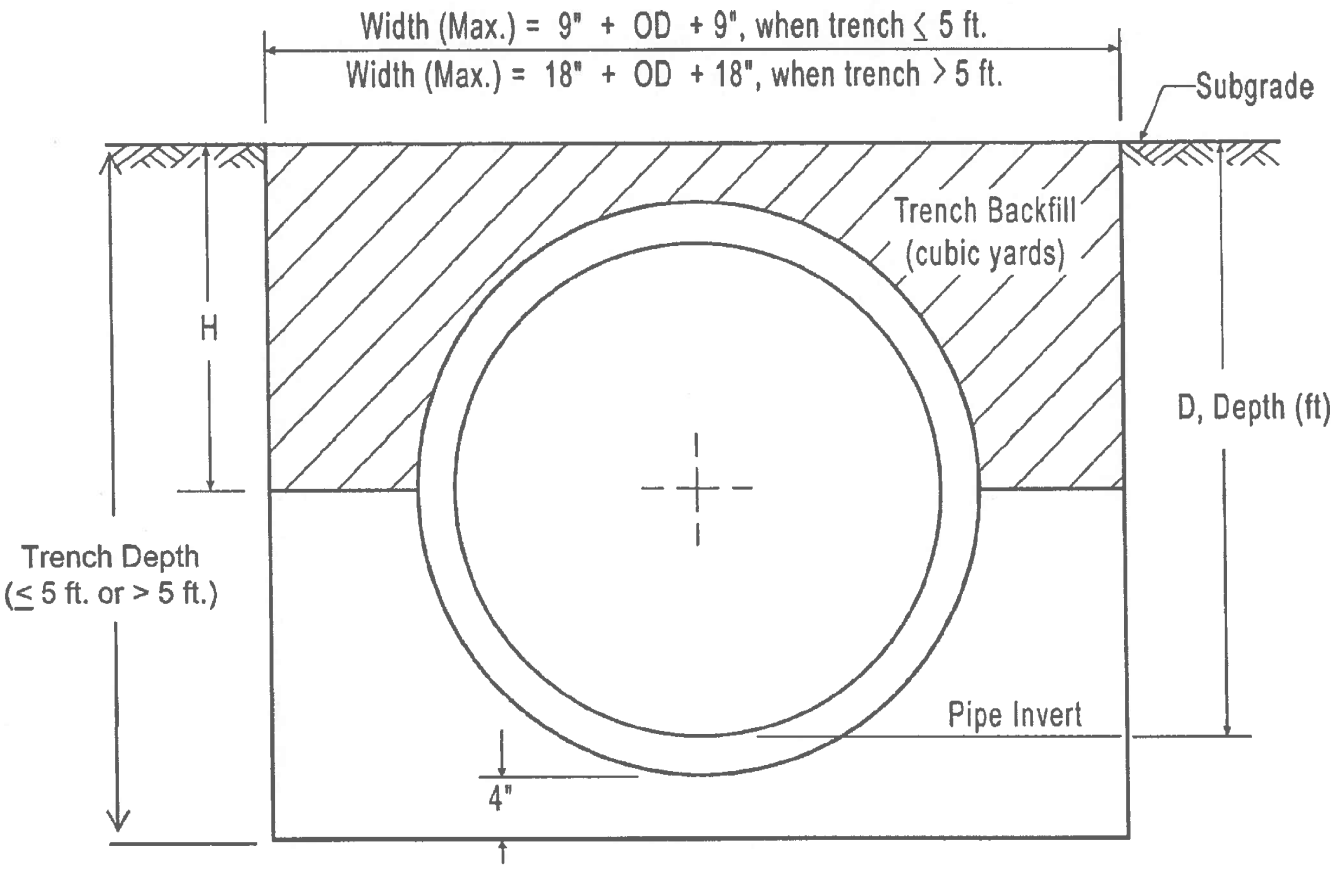
66. ABANDON EXISTING WATER MAIN

The work of this Pay Item consists of installing plugs and/or caps on existing mains where portions of the existing main are to be abandoned after the new main is in service, including coordination of shut-down of mains with Owner and Engineer; re-excavation of locations; removal and disposal of waste excavated materials; cutting of mains; installation of plugs or caps; concrete thrust blocks; backfilling and compaction of excavated materials or granular trench backfill material in pavements; and clean-up.

Length of dead-end mains shall be no greater than two times the outside diameter of the main.

Basis of Payment:
The work will be paid for at the contract unit price each for ABANDON WATER MAIN, at the locations noted.

TRENCH BACKFILL TABLE FOR CIRCULAR CONCRETE PIPE, ENGLISH



EXAMPLE

Given:	Pipe = 42" Storm Sewer	
	Average Depth, D = 6.8 feet	
	Trench Length = 84.7 feet	
Find:	Cubic Yards of TRENCH BACKFILL	
Solution:	From Table, Cubic yard/lin. ft.	= 1.093
	x Trench length	= x 84.7
	TRENCH BACKFILL	= 92.6 cu. yds.

NOTE: If the field engineer measures a width of trench less than the maximum permitted, the values included herein will be of no value. The actual volume of TRENCH BACKFILL used will therefore have to be calculated using the following formula:

$$\text{Cubic Yards} = \left[(H' \times W') - \left(\frac{\text{Pipe End Area}}{2}\right)\right] \times L' \times 1/27$$

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

D(ft) = Average Depth of Trench from Subgrade to Invert of Pipe	Inside Diameter Wall thickness	8" 1.667"	10" 1.833"	12" 2.00"	15" 2.25"	18" 2.50"	21" 2.75"
	2.0	0.138	0.136	0.132	0.121	0.105	0.083
	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
	2.6	0.192	0.194	0.194	0.190	0.180	0.166
	2.8	0.210	0.214	0.215	0.213	0.205	0.193
	3.0	0.228	0.234	0.236	0.236	0.231	0.220
	3.2	0.246	0.253	0.257	0.259	0.256	0.248
	3.4	0.264	0.272	0.278	0.282	0.281	0.275
	3.6	0.282	0.292	0.299	0.305	0.307	0.303
	3.8	0.300	0.311	0.320	0.329	0.332	0.330
	4.0	0.319	0.331	0.341	0.352	0.358	0.358
	4.2	0.336	0.350	0.362	0.375	0.383	0.385
	4.4	0.354	0.370	0.383	0.398	0.408	0.413
	4.6	0.610	0.622	0.632	0.642	0.647	0.647
	4.8	0.639	0.653	0.664	0.676	0.684	0.686
	5.0	0.668	0.683	0.696	0.711	0.720	0.724
	5.2	0.698	0.714	0.728	0.745	0.756	0.763
	5.4	0.727	0.745	0.760	0.779	0.793	0.801
	5.6	0.756	0.776	0.792	0.813	0.829	0.840
	5.8	0.785	0.807	0.824	0.848	0.866	0.879
	6.0	0.815	0.837	0.856	0.882	0.902	0.918
	6.2	0.844	0.867	0.888	0.916	0.938	0.956
	6.4	0.873	0.898	0.921	0.950	0.975	0.994
	6.6	0.903	0.929	0.953	0.985	1.011	1.033
	6.8	0.932	0.959	0.985	1.019	1.048	1.071
	7.0	0.961	0.990	1.017	1.053	1.084	1.110
	7.2	0.990	1.021	1.049	1.087	1.121	1.149
	7.4	1.019	1.051	1.081	1.122	1.157	1.187
	7.6	1.049	1.082	1.113	1.156	1.193	1.226
	7.8	1.078	1.113	1.145	1.190	1.230	1.264
	8.0	1.107	1.143	1.177	1.224	1.266	1.303
	8.2	1.136	1.174	1.209	1.259	1.303	1.342
	8.4	1.165	1.205	1.241	1.293	1.340	1.380
	8.6	1.195	1.235	1.274	1.328	1.376	1.419
	8.8	1.224	1.266	1.306	1.362	1.412	1.458
	9.0	1.253	1.297	1.338	1.396	1.449	1.496
	9.2	1.282	1.327	1.370	1.430	1.485	1.535
	9.4	1.311	1.358	1.402	1.465	1.522	1.574
	9.6	1.341	1.389	1.435	1.499	1.558	1.612
	9.8	1.370	1.419	1.467	1.533	1.594	1.651
	10.0	1.399	1.450	1.499	1.568	1.631	1.689
	10.2	1.428	1.481	1.531	1.602	1.667	1.728
	10.4	1.457	1.511	1.563	1.636	1.704	1.767
	10.6	1.487	1.542	1.595	1.671	1.740	1.805
	10.8	1.516	1.573	1.627	1.705	1.776	1.844
	11.0	1.545	1.603	1.659	1.739	1.813	1.882
	11.2	1.574	1.634	1.691	1.773	1.849	1.921
	11.4	1.603	1.665	1.723	1.808	1.886	1.960
	11.6	1.633	1.696	1.755	1.842	1.922	1.998
	11.8	1.662	1.726	1.788	1.876	1.958	2.037
	For each additional 0.2' depth	+0.0292	+0.0307	+0.0321	+0.0343	+0.0364	+0.0386

GENERAL CONDITIONS

Please see the City of Joliet Special Provision and General Conditions Booklet Adopted October 15, 2020 and General Conditions Booklet Updated February 10, 2021 at:
https://joliet.gov/government/departments/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.

TRAFFIC CONTROL PLAN
Effective: September 30, 1985
Revised: January 1, 2007

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

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

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

STANDARDS: IDOT Standard 701501; 701801; 701901; B.L.R. 22-7

DETAILS:

SPECIAL PROVISIONS: See City of Joliet special Provision

BDE SPECIAL PROVISIONS
For the April 29, 2022 and June 17, 2022 Lettings

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

	File Name	#		Special Provision Title	Effective	Revised
	80099	1	☐	Accessible Pedestrian Signals (APS)	April 1, 2003	Jan. 1, 2022
*	80274	2	☐	Aggregate Subgrade Improvement	April 1, 2012	April 1, 2022
	80192	3	☐	Automated Flagger Assistance Device	Jan. 1, 2008	
	80173	4	☐	Bituminous Materials Cost Adjustments	Nov. 2, 2006	Aug. 1, 2017
	80426	5	☐	Bituminous Surface Treatment with Fog Seal	Jan. 1, 2020	Jan. 1, 2022
	80436	6	☐	Blended Finely Divided Minerals	April 1, 2021	
	80241	7	☐	Bridge Demolition Debris	July 1, 2009	
	5026I	8	☐	Building Removal-Case I (Non-Friable and Friable Asbestos)	Sept. 1, 1990	April 1, 2010
	5048I	9	☐	Building Removal-Case II (Non-Friable Asbestos)	Sept. 1, 1990	April 1, 2010
	5049I	10	☐	Building Removal-Case III (Friable Asbestos)	Sept. 1, 1990	April 1, 2010
	5053I	11	☐	Building Removal-Case IV (No Asbestos)	Sept. 1, 1990	April 1, 2010
	80384	12	☐	Compensable Delay Costs	June 2, 2017	April 1, 2019
	80198	13	☐	Completion Date (via calendar days)	April 1, 2008	
	80199	14	☐	Completion Date (via calendar days) Plus Working Days	April 1, 2008	
	80293	15	☐	Concrete Box Culverts with Skews > 30 Degrees and Design Fills ≤ 5 Feet	April 1, 2012	July 1, 2016
	80311	16	☐	Concrete End Sections for Pipe Culverts	Jan. 1, 2013	April 1, 2016
	80261	17	☐	Construction Air Quality – Diesel Retrofit	June 1, 2010	Nov. 1, 2014
	80434	18	☐	Corrugated Plastic Pipe (Culvert and Storm Sewer)	Jan. 1, 2021	
	80029	19	☐	Disadvantaged Business Enterprise Participation	Sept. 1, 2000	March 2, 2019
	80229	20	☐	Fuel Cost Adjustment	April 1, 2009	Aug. 1, 2017
	80433	21	☐	Green Preformed Thermoplastic Pavement Markings	Jan. 1, 2021	Jan. 1, 2022
	80422	22	☐	High Tension Cable Median Barrier	Jan. 1, 2020	Jan. 1, 2022
*	80443	23	☐	High Tension Cable Median Barrier Removal	April 1, 2022	
*	80444	24	☐	Hot-Mix Asphalt – Patching	April 1, 2022	
	80442	25	☐	Hot-Mix Asphalt – Start of Production	Jan. 1, 2022	
	80438	26	☐	Illinois Works Apprenticeship Initiative – State Funded Contracts	June 2, 2021	Sept. 2, 2021
	80411	27	☐	Luminaires, LED	April 1, 2019	Jan. 1, 2022
	80045	28	☐	Material Transfer Device	June 15, 1999	Jan. 1, 2022
	80418	29	☐	Mechanically Stabilized Earth Retaining Walls	Nov. 1, 2019	Nov. 1, 2020
	80430	30	☐	Portland Cement Concrete – Haul Time	July 1, 2020	
	3426I	31	☐	Railroad Protective Liability Insurance	Dec. 1, 1986	Jan. 1, 2022
	80395	32	☐	Sloped Metal End Section for Pipe Culverts	Jan. 1, 2018	
	80340	33	☐	Speed Display Trailer	April 2, 2014	Jan. 1, 2022
	80127	34	☐	Steel Cost Adjustment	April 2, 2004	Jan. 1, 2022
	80397	35	☐	Subcontractor and DBE Payment Reporting	April 2, 2018	
	80391	36	☐	Subcontractor Mobilization Payments	Nov. 2, 2017	April 1, 2019
	80437	37	☐	Submission of Payroll Records	April 1, 2021	
	80435	38	☐	Surface Testing of Pavements – IRI	Jan. 1, 2021	Jan. 1, 2022
	80410	39	☐	Traffic Spotters	Jan. 1, 2019	
	20338	40	☐	Training Special Provisions	Oct. 15, 1975	Sept. 2, 2021
	80318	41	☐	Traversable Pipe Grate for Concrete End Sections	Jan. 1, 2013	Jan. 1, 2018
	80429	42	☐	Ultra-Thin Bonded Wearing Course	April 1, 2020	Jan. 1, 2022
	80439	43	☐	Vehicle and Equipment Warning Lights	Nov. 1, 2021	
	80440	44	☐	Waterproofing Membrane System	Nov. 1, 2021	
	80302	45	☐	Weekly DBE Trucking Reports	June 2, 2012	Nov. 1, 2021
	80427	46	☐	Work Zone Traffic Control Devices	Mar. 2, 2020	
	80071	47	☑	Working Days	Jan. 1, 2002	

The following special provisions are in the 2022 Standard Specifications and Recurring Special Provisions.

File Name	Special Provision Title	New Location(s)	Effective	Revised
80425	Cape Seal	Sections 405, 1003	Jan. 1, 2020	Jan. 1, 2021
80387	Contrast Preformed Plastic Pavement Marking	Articles 780.08, 1095.03	Nov. 1, 2017	
80402	Disposal Fees	Article 109.04(b)	Nov. 1, 2018	
80378	Dowel Bar Inserter	Articles 420.03, 420.05, 1103.20	Jan. 1, 2017	Jan. 1, 2018
80421	Electric Service Installation	Articles 804.04, 804.05	Jan. 1, 2020	
80415	Emulsified Asphalts	Article 1032.06	Aug. 1, 2019	
80423	Engineer's Field Office and Laboratory	Section 670	Jan. 1, 2020	
80417	Geotechnical Fabric for Pipe Underdrains and French Drains	Articles 1080.01(a), 1080.05	Nov. 1, 2019	
80420	Geotextile Retaining Walls	Article 1080.06(d)	Nov. 1, 2019	
80304	Grooving for Recessed Pavement Markings	Articles 780.05, 780.14, 780.15	Nov. 1, 2012	Nov. 1, 2020
80416	Hot-Mix Asphalt – Binder and Surface Course	Sections 406, 1003, 1004, 1030, 1101	July 2, 2019	Nov. 1, 2019
80398	Hot-Mix Asphalt – Longitudinal Joint Sealant	Sections 406, 1032	Aug. 1, 2018	Nov. 1, 2019
80406	Hot-Mix Asphalt – Mixture Design Verification and Production (Modified for I-FIT)	Sections 406, 1030	Jan. 1, 2019	Jan. 2, 2021
80347	Hot-Mix Asphalt – Pay for Performance Using Percent Within Limits – Jobsite Sampling	Sections 406, 1030	Nov. 1, 2014	July 2, 2019
80383	Hot-Mix Asphalt – Quality Control for Performance	Sections 406, 1030	April 1, 2017	July 2, 2019
80393	Manholes, Valve Vaults, and Flat Slab Tops	Articles 602.02, 1042.10	Jan. 1, 2018	Mar. 1, 2019
80424	Micro-Surfacing and Slurry Sealing	Sections 404, 1003	Jan. 1, 2020	Jan. 1, 2021
80428	Mobilization	Article 671.02	April 1, 2020	
80412	Obstruction Warning Luminaires, LED	Sections 801, 822, 1067	Aug. 1, 2019	
80359	Portland Cement Concrete Bridge Deck Curing	Articles 1020.13, 1022.03	April 1, 2015	Nov. 1, 2019
80431	Portland Cement Concrete Pavement Patching	Articles 701.17(e)(3)b, 1001.01(d), 1020.05(b)(5)	July 1, 2020	
80432	Portland Cement Concrete Pavement Placement	Article 420.07	July 1, 2020	
80300	Preformed Plastic Pavement Marking Type D - Inlaid	Articles 780.08, 1095.03	April 1, 2012	April 1, 2016
80157	Railroad Protective Liability Insurance (5 and 10)	Article 107.11	Jan. 1, 2006	
80306	Reclaimed Asphalt Pavement (RAP) and Reclaimed Asphalt Shingles (RAS)	Section 1031	Nov. 1, 2012	Jan. 2, 2021
80407	Removal and Disposal of Regulated Substances	Section 669	Jan. 1 2019	Jan. 1, 2020
80419	Silt Fence, Inlet Filters, Ground Stabilization and Riprap Filter Fabric	Articles 280.02, 280.04, 1080.02, 1080.03, 1081.15	Nov. 1, 2019	July 1, 2021
80408	Steel Plate Beam Guardrail Manufacturing	Article 1006.25	Jan. 1, 2019	
80413	Structural Timber	Article 1007.03	Aug. 1, 2019	
80298	Temporary Pavement Marking	Section 703, Article 1095.06	April 1, 2012	April 1, 2017
80409	Traffic Control Devices – Cones	Article 701.15(a), 1106.02(b)	Jan. 1, 2019	
80288	Warm Mix Asphalt	Sections 406, 1030, 1102	Jan. 1, 2012	April 1, 2016
80414	Wood Fence Sight Screen	Article 641.02	Aug. 1, 2019	April 1, 2020

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

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

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

Effective: November 1, 2012
Revise: November 1, 2019

Revise Section 1031 of the Standard Specifications to read:

"SECTION 1031. RECLAIMED ASPHALT PAVEMENT AND RECLAIMED ASPHALT SHINGLES

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

(a) Reclaimed Asphalt Pavement (RAP). RAP is the material resulting from cold milling or crushing an existing hot-mix asphalt (HMA) pavement. RAP will be considered processed FRAP after completion of both crushing and screening to size. The Contractor shall supply written documentation that the RAP originated from routes or airfields under federal, state, or local agency jurisdiction.

(b) Reclaimed Asphalt Shingles (RAS). Reclaimed asphalt shingles (RAS). RAS is from the processing and grinding of preconsumer or post-consumer shingles. RAS shall be a clean and uniform material with a maximum of 0.5 percent unacceptable material, as defined in Central Bureau of Materials Policy Memorandum, "Reclaimed Asphalt Shingle (RAS) Sources", by weight of RAS. All RAS used shall come from a Central Bureau of Materials approved processing facility where it shall be ground and processed to 100 percent passing the 3/8 in. (9.5 mm) sieve and 90 percent passing the #4 (4.75 mm) sieve. RAS shall meet the testing requirements specified herein. In addition, RAS shall meet the following Type 1 or Type 2 requirements.

(1) Type 1. Type 1 RAS shall be processed, preconsumer asphalt shingles salvaged from the manufacture of residential asphalt roofing shingles.

(2) Type 2. Type 2 RAS shall be processed post-consumer shingles only, salvaged from residential, or four unit or less dwellings not subject to the National Emission Standards for Hazardous Air Pollutants (NESHAP).

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

(a) RAP Stockpiles. The Contractor shall construct individual, sealed RAP stockpiles meeting one of the following definitions. Additional processed RAP (FRAP) shall be stockpiled in a separate working pile, as designated in the QC Plan, and only added to the sealed stockpile when test results for the working pile are complete and are found to meet tolerances specified herein for the original sealed FRAP stockpile. Stockpiles shall be sufficiently separated to prevent intermingling at the base. All stockpiles (including unprocessed RAP and FRAP) shall be identified by signs indicating the type as listed below (i.e. "Non- Quality, FRAP -#4 or Type 2 RAS", etc...).

(1) Fractionated RAP (FRAP). FRAP shall consist of RAP from Class I, HMA (High and Low ESAL) or equivalent mixtures. The coarse aggregate in FRAP shall be crushed aggregate and may represent more than one aggregate type and/or quality, but shall be at least C quality. All FRAP shall be processed prior to testing and sized into fractions with the separation occurring on or between the #4 (4.75 mm) and 1/2 in. (12.5 mm) sieves. Agglomerations shall be minimized such that 100 percent of the RAP in the coarse fraction shall pass the maximum sieve size specified for the mixture composition of the mix design.

(2) Restricted FRAP (B quality) stockpiles shall consist of RAP from Class I, HMA (High ESAL), or HMA (High ESAL). If approved by the Engineer, the aggregate from a maximum 3.0 in. (75 mm) single combined pass of surface/binder milling will be classified as B quality. All millings from this application will be processed into FRAP as described previously.

(3) Conglomerate. Conglomerate RAP stockpiles shall consist of RAP from Class I, HMA (High and Low ESAL) or equivalent mixtures. The coarse aggregate in this RAP shall be crushed aggregate and may represent more than one aggregate type and/or quality, but shall be at least C quality. This RAP may have an inconsistent gradation and/or asphalt binder content prior to processing. All conglomerate RAP shall be processed (FRAP) prior to testing. Conglomerate RAP stockpiles shall not contain steel slag or other expansive material as determined by the Department.

(4) Conglomerate "D" Quality (DQ). Conglomerate DQ RAP stockpiles shall consist of RAP from HMA shoulders, bituminous stabilized subbases or HMA (Low ESAL)/HMA (Low ESAL) IL-19.0L binder mixture. The coarse aggregate in this RAP may be crushed or round but shall be at least D quality. This RAP may have an inconsistent gradation and/or asphalt binder content. Conglomerate DQ RAP stockpiles shall not contain steel slag or other expansive material as determined by the Department.

(5) Non-Quality. RAP stockpiles that do not meet the requirements of the stockpile categories listed above shall be classified as "Non-Quality".

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

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

However, a RAS source may submit a written request to the Department for approval to blend mechanically a specified ratio of Type 1 RAS with Type 2 RAS. The source will not be permitted to change the ratio of the blend without the Department prior written

approval. The Engineer's written approval will be required, to mechanically blend RAS with any fine aggregate produced under the AGCS, up to an equal weight of RAS, to improve workability. The fine aggregate shall be "B Quality" or better from an approved Aggregate Gradation Control System source. The fine aggregate shall be one that is approved for use in the HMA mixture and accounted for in the mix design and during HMA production.

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

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

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

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

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

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

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

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

(1) During Stockpiling. Washed extraction and testing for unacceptable materials shall be run at the minimum frequency of one sample per 200 tons (180 metric tons) for the first 1000 tons (900 metric tons) and one sample per 1000 tons (900 metric tons) thereafter. A minimum of five samples are required for stockpiles less than

1000 tons (900 metric tons). Once a ≤ 1000 ton (900 metric ton), five-sample/test stockpile has been established it shall be sealed. Additional incoming RAS shall be in a separate working pile as designated in the Quality Control plan and only added to the sealed stockpile when the test results of the working pile are complete and are found to meet the tolerances specified herein for the original sealed RAS stockpile.

(2) Incoming Material. For testing as incoming material at the HMA plant, washed extraction shall be run at the minimum frequency of one sample per 250 tons (227 metric tons). A minimum of five samples are required for stockpiles less than 1000 tons (900 metric tons). The incoming material test results shall meet the tolerances specified herein.

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

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

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

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

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

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

If any individual sieve and/or asphalt binder content tests are out of the above tolerances when compared to the average used for the mix design, the FRAP stockpile shall not be

used in Hot-Mix Asphalt unless the FRAP representing those tests is removed from the stockpile. All test data and acceptance ranges shall be sent to the District for evaluation.

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

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

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

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

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

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

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

The Engineer will notify the Contractor of observed deficiencies.

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

Test Parameter	Acceptable Limits of Precision

% Passing:[1/]	FRAP	RAS
1/2 in.	5.0%	
No. 4	5.0%	
No. 8	3.0%	4.0%
No. 30	2.0%	4.0%
No. 200	2.2%	4.0%
Asphalt Binder Content	0.3%	3.0%
G_{mm}	0.030	

1/ Based on washed extraction.

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

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

1031.05 Quality Designation of Aggregate in RAP and FRAP.

(a) RAP. The aggregate quality of the RAP for homogeneous, conglomerate, and conglomerate "D" quality stockpiles shall be set by the lowest quality of coarse aggregate in the RAP stockpile and are designated as follows.

(1) RAP from Class I, HMA (High ESAL), or (Low ESAL) IL-9.5L surface mixtures are designated as containing Class B quality coarse aggregate.

(2) RAP from HMA (Low ESAL) IL-19.0L binder mixture is designated as Class D quality coarse aggregate.

(3) RAP from Class I, HMA (High ESAL) binder mixtures, bituminous base course mixtures, and bituminous base course widening mixtures are designated as containing Class C quality coarse aggregate.

(4) RAP from bituminous stabilized subbase and BAM shoulders are designated as containing Class D quality coarse aggregate.

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

If the quality is not known, the quality shall be determined as follows. Fractionated RAP stockpiles containing plus #4 (4.75 mm) sieve coarse aggregate shall have a maximum tonnage of 5,000 tons (4,500 metric tons). The Contractor shall obtain a representative sample witnessed by the Engineer. The sample shall be a minimum of 50 lb (25 kg). The sample shall be extracted according to Illinois Modified AASHTO T 164 by a consultant laboratory prequalified by the Department for the specified testing. The consultant laboratory shall submit the test results along with the recovered aggregate to

the District Office. The cost for this testing shall be paid by the Contractor. The District will forward the sample to the Central Bureau of Materials Aggregate Lab for MicroDeval Testing, according to ITP 327. A maximum loss of 15.0 percent will be applied for all HMA applications. The fine aggregate portion of the fractionated RAP shall not be used in any HMA mixtures that require a minimum of "B" quality aggregate or better, until the coarse aggregate fraction has been determined to be acceptable thru a MicroDeval Testing.

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

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

(1) Coarse Aggregate Size (after extraction). The coarse aggregate in all FRAP shall be equal to or less than the nominal maximum size requirement for the HMA mixture to be produced.

(2) Steel Slag Stockpiles. FRAP stockpiles containing steel slag or other expansive material, as determined by the Department, shall be homogeneous and will be approved for use in HMA (High ESAL and Low ESAL) mixtures regardless of lift or mix type.

(3) Use in HMA Surface Mixtures (High and Low ESAL). FRAP stockpiles for use in HMA surface mixtures (High and Low ESAL) shall have coarse aggregate that is Class B quality or better. FRAP shall be considered equivalent to limestone for frictional considerations unless produced/screened to minus 3/8 inch.

(4) Use in HMA Binder Mixtures (High and Low ESAL), HMA Base Course, and HMA Base Course Widening. FRAP stockpiles for use in HMA binder mixtures (High and Low ESAL), HMA base course, and HMA base course widening shall be FRAP in which the coarse aggregate is Class C quality or better.

(5) Use in Shoulders and Subbase. FRAP stockpiles for use in HMA shoulders and stabilized subbase (HMA) shall be FRAP, Restricted FRAP, conglomerate, or conglomerate DQ.

(b) RAS. RAS meeting Type 1 or Type 2 requirements will be permitted in all HMA applications as specified herein.

(c) FRAP and/or RAS Usage Limits. Type 1 or Type 2 RAS may be used alone or in conjunction with FRAP in HMA mixtures up to a maximum of 5.0 percent by weight of the total mix.

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

Maximum Asphalt Binder Replacement (ABR) for FRAP with RAS Combination

HMA Mixtures 1/ 2/ 4/	Maximum % ABR		
Ndesign	Binder 5/	Surface 5/	Polymer Modified 3/
30L	50	40	30
50	40	35	30
70	40	30	30
90	40	30	30
SMA			30
IL-4.75			40

1/ For Low ESAL HMA shoulder and stabilized subbase, the percent asphalt binder replacement shall not exceed 50 % of the total asphalt binder in the mixture.

2/ When the binder replacement exceeds 15 % for all mixes, except for SMA and IL-4.75, the high and low virgin asphalt binder grades shall each be reduced by one grade (i.e. 25 % binder replacement using a virgin asphalt binder grade of PG64-22 will be reduced to a PG58-28). When constructing full depth HMA and the ABR is less than 15 %, the required virgin asphalt binder grade shall be PG64-28.

3/ When the ABR for SMA or IL-4.75 is 15 % or less, the required virgin asphalt binder shall be SBS PG76-22 and the elastic recovery shall be a minimum of 80. When the ABR for SMA or IL-4.75 exceeds 15%, the virgin asphalt binder grade shall be SBS PG70-28 and the elastic recovery shall be a minimum of 80.

4/ When FRAP or RAS is used alone, the maximum percent asphalt binder replacement designated on the table shall be reduced by 10 %.

5/ When the mix has Illinois Flexibility Index Test (I-FIT) requirements, the maximum percent asphalt binder replacement designated on the table may be increased by 5%.

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

(a) FRAP and/or RAS. FRAP and /or RAS mix designs shall be submitted for verification. If additional FRAP or RAS stockpiles are tested and found to be within tolerance, as defined under "Evaluation of Tests" herein, and meet all requirements herein, the

additional FRAP or RAS stockpiles may be used in the original design at the percent previously verified.

(b) RAS. Type 1 and Type 2 RAS are not interchangeable in a mix design.

The RAP, FRAP and RAS stone specific gravities (G_{sb}) shall be according to the "Determination of Aggregate Bulk (Dry) Specific Gravity (G_{sb}) of Reclaimed Asphalt Pavement (RAP) and Reclaimed Asphalt Shingles (RAS)" procedure in the Department's Manual of Test Procedures for Materials.

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

A scalping screen, gator, crushing unit, or comparable sizing device approved by the Engineer shall be used in the RAS and FRAP feed system to remove or reduce oversized and agglomerated material.

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

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

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

(c) HMA Plant Requirements. HMA plants utilizing FRAP and/or RAS shall be capable of automatically recording and printing the following information.

(1) Dryer Drum Plants.

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

b. HMA mix number assigned by the Department.

c. Accumulated weight of dry aggregate (combined or individual) in tons (metric tons) to the nearest 0.1 ton (0.1 metric ton).

d. Accumulated dry weight of RAS and FRAP in tons (metric tons) to the nearest 0.1 ton (0.1 metric ton).

e. Accumulated mineral filler in revolutions, tons (metric tons), etc. to the nearest 0.1 unit.

f. Accumulated asphalt binder in gallons (liters), tons (metric tons), etc. to the nearest 0.1 unit.

g. Residual asphalt binder in the RAS and FRAP material as a percent of the total mix to the nearest 0.1 percent.

h. Aggregate RAS and FRAP moisture compensators in percent as set on the control panel. (Required when accumulated or individual aggregate and RAS and FRAP are printed in wet condition.)

i. When producing mixtures with FRAP and/or RAS, a positive dust control system shall be utilized.

j. Accumulated mixture tonnage.

k. Dust Removed (accumulated to the nearest 0.1 ton (0.1 metric ton))

(2) Batch Plants.

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

b. HMA mix number assigned by the Department.

c. Individual virgin aggregate hot bin batch weights to the nearest pound (kilogram).

d. Mineral filler weight to the nearest pound (kilogram).

e. RAS and FRAP weight to the nearest pound (kilogram).

f. Virgin asphalt binder weight to the nearest pound (kilogram).

g. Residual asphalt binder in the RAS and FRAP material as a percent of the total mix to the nearest 0.1 percent.

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

1031.09 RAP in Aggregate Surface Course and Aggregate Wedge Shoulders, Type B. The use of RAP in aggregate surface course and aggregate shoulders shall be as follows.

(a) Stockpiles and Testing. RAP stockpiles may be any of those listed in Article 1031.02, except "Non-Quality" and "FRAP". The testing requirements of Article 1031.03 shall not apply. RAP used shall be according to the current Central Bureau of Materials Policy Memorandum, "Reclaimed Asphalt Pavement (RAP) for Aggregate Applications".

(b) Gradation. The RAP material shall meet the gradation requirements for CA 6 according to Article 1004.01(c), except the requirements for the minus No. 200 (75 µm) sieve shall not apply. The sample for the RAP material shall be air dried to constant weight prior to being tested for gradation."

WORKING DAYS (BDE)

Effective: January 1, 2002

The Contractor shall complete the work within 35 working days.

80071



K & S ENGINEERS, INC.
SOIL TESTING AND FOUNDATION CONSULTANTS

SITE PLAN AND BORING/CORING LOCATIONS
Walsh Avenue (Douglas St. – Taylor St.)
Joliet, Illinois

N

Date: 2-10-21	**EXHIBIT – 1**
Not to Scale	**FILE No. 13465**
LEGEND: ⊕ Approximate Boring/Coring Locations	

"FOR INFORMATIONAL PURPOSES ONLY"

Table of Results
2022: Pavement Cores and Rock Borings
City of Joliet, IL
K & S File No. 13465

Street	Location	Type	Pavement type	Pavement Thickness (inches)	Base Type	Base Thickness (inches)	Subgrade Classification (native soil under base)	Remarks
Walsh Avenue	C-1	Core	Bituminous	2	Crushed Stone	3	Weathered bedrock	
(Douglas-Taylor)	C-2	Core	Bituminous	1.5	Crushed Stone	3.5	Weathered bedrock	
	C-3	Core	Bituminous	1	Crushed Stone	6	Weathered bedrock	
Helen Avenue	C-4	Core	Bituminous	3	Crushed Stone with Clay	10	Brown clay	
(Charity-Mills)	C-5	Core	Bituminous	1	Crushed Stone	13	Brown clay	
	B-1	Boring	Bituminous	6.5	Crushed Stone	7.5	See Exhibit 6	
Dora Avenue	C-6	Core	Bituminous	2	Crushed Stone	3	Dark brown clay	
(Woodruff-Garvin)	C-7	Core	Bituminous	5	Crushed Stone with Clay	5	Brown clay with sand and gravel	
Dekalb Street	B-2	Boring	Bituminous	3	Crushed Stone	3	See Exhibit 7	
(Center-Pleasant)								
Parks Avenue	B-3	Boring	Bituminous	3	Crushed Stone with Sand	7	See Exhibit 8	
(Liberty-Elwood)	B-4	Boring	Bituminous	1.5	Weathered bedrock	-	See Exhibit 9	Asphalt on top of weathered bedrock

Exhibit 10

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

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ISSUED 1-1-21

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
Structure To Be Adjusted		ADJ
Structure To Be Cleaned		C
Main Structure To Be Filled		FM
Structure To Be Filled		F
Structure To Be Filled Special		FSP
Structure To Be Removed		R
Structure To Be Reconstructed		REC
Structure To Be Reconstructed Special		RSP
Frame and Grate To Be Adjusted		A
Frame and Lid To Be Adjusted		A
Domestic Service Box To Be Adjusted		A
Valve Vault To Be Adjusted		A
Special Adjustment		SP
Item To Be Abandoned		AB
Item To Be Moved		M
Item To Be Relocated		REL
Pavement Removal and Replacement		

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BDE 1491 (ISSUED 1-1-21)

ALIGNMENT ITEMS

	EX	PR
Baseline		
Centerline		
Centerline Break Circle		
Baseline Symbol		
Centerline Symbol		
PI Indicator		
Point Indicator		
Horizontal Curve Data (Half Size)	EX. CURVE P.I. STA= Δ= D= R= T= L= E= c= T.R.= S.E. RUN= P.C. STA= P.T. STA=	CURVE P.I. STA= Δ= D= R= T= L= E= e= T.R.= S.E. RUN= P.C. STA= P.T. STA=

BOUNDARIES ITEMS

	EX	PR
Dashed Property Line		
Solid Property/Lot Line		
Section/Grant Line		
Quarter Section Line		
Quarter/Quarter Section Line		
County/Township Line		
State Line		
Chiseled Square Found		
Iron Pipe Found		
Iron Pipe Set		
Survey Marker		
Property Line Symbol		
Same Ownership Symbol (Half Size)		
Northwest Quarter Corner (Half Size)		
Section Corner (Half Size)		
Southeast Quarter Corner (Half Size)		

DRAINAGE ITEMS

	EX	PR
Channel or Stream Line		
Culvert Line		
Grading & Shaping Ditches		
Drainage Boundary Line		
Paved Ditch		
Aggregate Ditch		
Pipe Underdrain		
Storm Sewer		
Flowline		
Ditch Check		
Headwall		
Inlet		
Manhole		
Summit		
Roadway Ditch Flow		
Swale		
Catch Basin		
Culvert End Section		
Water Surface Indicator		
Riprap		

HYDRAULICS ITEMS

	EX	PR
Overflow		
Sheet Flow		
Hydrant Outlet		

STANDARD SYMBOLS, ABBREVIATIONS AND PATTERNS

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STANDARD 000001-08

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		

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ISSUED 1-1-97

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	E	
Shade Tree	E	

LIGHTING

	EX	PR
Duct		
Conduit		
Electrical Aerial Cable	A	A
Electrical Buried Cable	L	L
Controller		
Underpass Luminaire		
Power Pole		

STANDARD SYMBOLS, ABBREVIATIONS AND PATTERNS

(Sheet 3 of 9)

STANDARD 000001-08

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		

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PAVEMENT MARKINGS

	EX	PR
Handicap Symbol		
RR Crossing		
Raised Marker Amber 1 Way		
Raised Marker Amber 2 Way		
Raised Marker Crystal 1 Way		
Two Way Turn Left		
Shoulder Diag. Pattern		
Skip-Dash White		
Skip-Dash Yellow		
Stop Line		
Solid Line		
Double Centerline		
Dotted Lines		

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		
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		

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ISSUED 1-1-07

STANDARD SYMBOLS, ABBREVIATIONS AND PATTERNS

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STANDARD 000001-08

PAVEMENT MARKINGS (contd.)

	EX	PR
Urban U-Turn		
Urban Combined U-Turn		
Rural Combination Left		
Rural Combination Right		
Rural Left Turn Arrow		
Rural Right Turn Arrow		
Rural Left Turn Only		ONLY
Rural Right Turn Only		ONLY
Rural Thru Only		
Rural Thru Arrow		
Rural Lt & Rt Turn Arrow		
Bike Lane Symbol		
Bike Lane Text		BIKE LANE
Bike Path Shared		
Bike Shared Roadway		
Lane Drop Symbol		
Wrong Way Arrow		

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STANDARD SYMBOLS, ABBREVIATIONS AND PATTERNS

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STANDARD 000001-08

RIGHT OF WAY ITEMS (contd.)

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

ROADWAY PLAN ITEMS

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

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ENGINEER OF POLICY AND PROCEDURES

APPROVED January 1, 2021
ENGINEER OF DESIGN AND ENVIRONMENT

BSLDS 1-1-21

ROADWAY PROFILES

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

SIGNING ITEMS

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

SIGNING ITEMS (contd.)

	EX	PR
Reverse Left W1-4L (Half Size)		
Reverse Right W1-4R (Half Size)		
Two Way Traffic Sign W6-3 (Half Size)		
Detour Ahead W20-2(O) (Half Size)		DETOUR AHEAD
Left Lane Closed Ahead W20-5L(O) (Half Size)		LEFT LANE CLOSED AHEAD
Right Lane Closed Ahead W20-5R(O) (Half Size)		RIGHT LANE CLOSED AHEAD
Road Closed Ahead W20-3(O) (Half Size)		ROAD CLOSED AHEAD
Road Construction Ahead W20-1-(O) (Half Size)		ROAD CONSTRUCTION AHEAD
Single Lane Ahead (Half Size)		SINGLE LANE AHEAD
Transition Left W4-2L (Half Size)		
Transition Right W4-2R (Half Size)		

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 R3-1100L (Half Size)		
Keep Left R4-7AL (Half Size)		
Keep Left R4-7BL (Half Size)		
Keep Right R4-7AR (Half Size)		
Keep Right R4-7BR (Half Size)		
Stop Here On Red R10-6-AL (Half Size)		
Stop Here On Red R10-6-AR (Half Size)		
No Left Turn R3-2 (Half Size)		
No Right Turn R3-1 (Half Size)		
Road Closed R11-2 (Half Size)		
Road Closed Thru Traffic R11-2 (Half Size)		

Illinois Department of Transportation

PASSED January 1, 2021
ENGINEER OF POLICY AND PROCEDURES

APPROVED January 1, 2021
ENGINEER OF DESIGN AND ENVIRONMENT

ISSUED 1-1-07

STRUCTURES ITEMS

	EX	PR
Box Culvert Barrel		
Box Culvert Headwall		
Bridge Pier		
Bridge		
Retaining Wall		
Temporary Sheet Piling		

TRAFFIC SHEET ITEMS

	EX	PR
Cable Number		
Left Turn Green		
Left Turn Yellow		
Signal Backplate		
Signal Section 8" (200 mm)		
Signal Section 12" (300 mm)		
Walk/Don't Walk Letters		
Walk/Don't Walk Symbols		

TRAFFIC SIGNAL ITEMS

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

STANDARD SYMBOLS, ABBREVIATIONS AND PATTERNS

(Sheet 8 of 9)

STANDARD 000001-08

TRAFFIC SIGNAL ITEMS (contd.)

	EX	PR
Detector Raceway		
Aluminum Mast Arm		
Steel Mast Arm		
Veh. Detector Magnetic		
Conduit Splice		
Controller		
Gulfbox Junction		
Wood Pole		
Temp. Signal Head		
Handhole		
Double Handhole		
Heavy Duty Handhole		
Junction Box		
Ped. Pushbutton Detector		
Ped. Signal Head		
Power Pole Service		
Priority Veh. Detector		
Signal Head		
Signal Head w/Backplate		
Signal Post		
Closed Circuit TV		
Video Detector System		

Illinois Department of Transportation

PASSED January 1, 2021
ENGINEER OF POLICY AND PROCEDURES

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ISSUED 1-1-97

UNDERGROUND UTILITY ITEMS

	EX	PR	ABANDONED
Cable TV			
Electric Cable			
Fiber Optic			
Gas Pipe			
Oil Pipe			
Sanitary Sewer			
Telephone Cable			
Water Pipe			

UTILITIES ITEMS

	EX	PR
Controller		
Double Handhole		
Fire Hydrant		
GuyWire or Deadman Anchor		
Handhole		
Heavy Duty Handhole		
Junction Box		
Light Pole		
Manhole		
Monitoring Well (Gasoline)		
Pipeline Warning Sign		
Power Pole		
Power Pole with Light		
Sanitary Sewer Cleanout		
Splice Box Above Ground		
Telephone Splice Box Above Ground		
Telephone Pole		

UTILITY ITEMS (contd.)

	EX	PR
Traffic Signal		
Traffic Signal Control Box		
Water Meter		
Water Meter Valve Box		
Profile Line		
Aerial Power Line		

VEGETATION ITEMS

	EX	PR
Deciduous Tree		
Bush or Shrub		
Evergreen Tree		
Stump		
Orchard/Nursery Line		
Vegetation Line		
Woods & Bush Line		

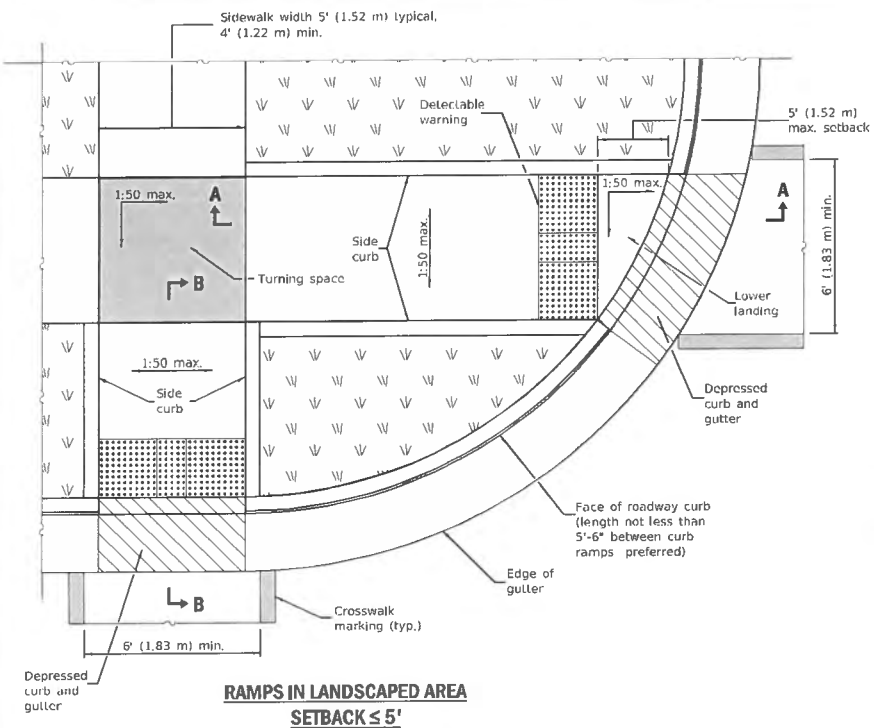
WATER FEATURE ITEMS

	EX	PR
Stream or Drainage Ditch		
Waters Edge		
Water Surface Indicator		
Water Point		
Disappearing Ditch		
Marsh		
Marsh/Swamp Boundary		

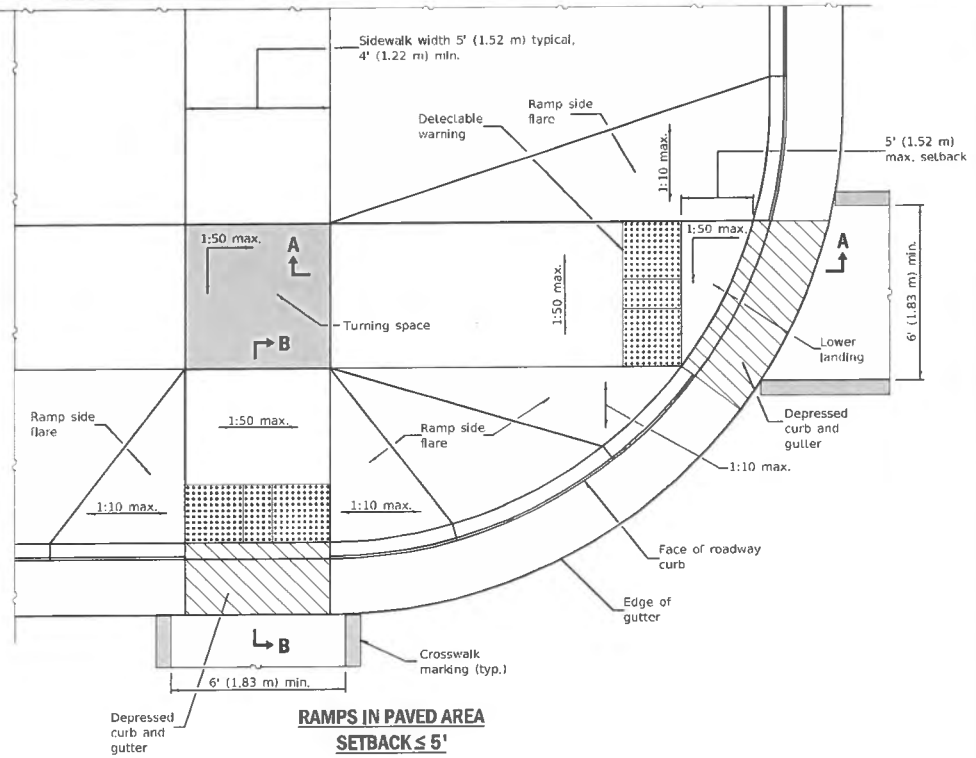
STANDARD SYMBOLS, ABBREVIATIONS AND PATTERNS

(Sheet 9 of 9)

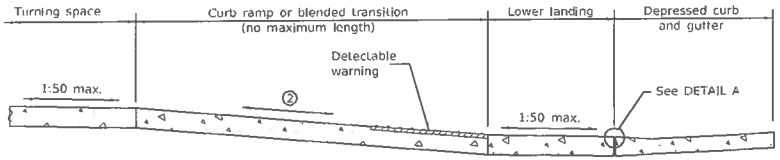
STANDARD 000001-08



RAMPS IN LANDSCAPED AREA
SETBACK ≤ 5'

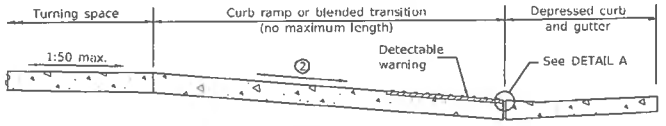


RAMPS IN PAVED AREA
SETBACK ≤ 5'



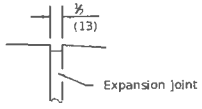
SECTION A-A

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.

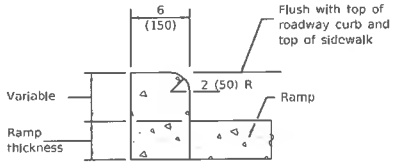


SECTION B-B

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

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)

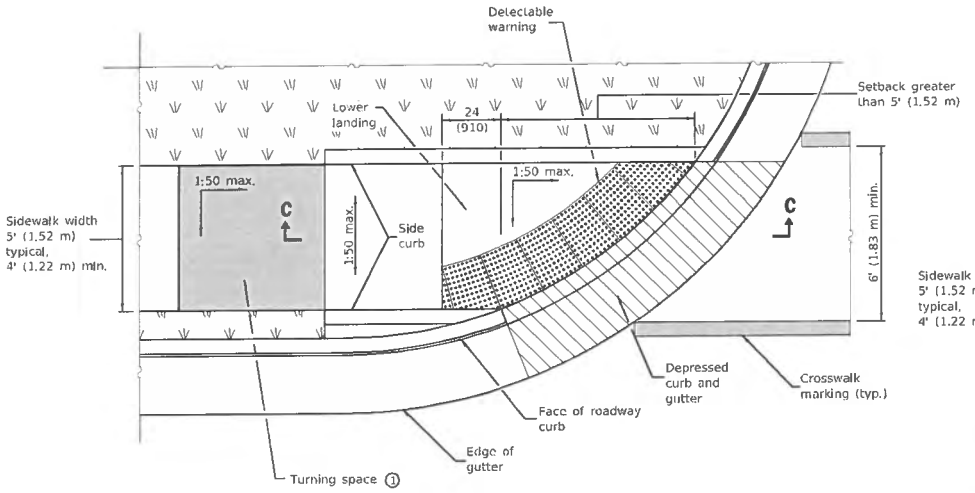
STANDARD 424001-11

Illinois Department of Transportation

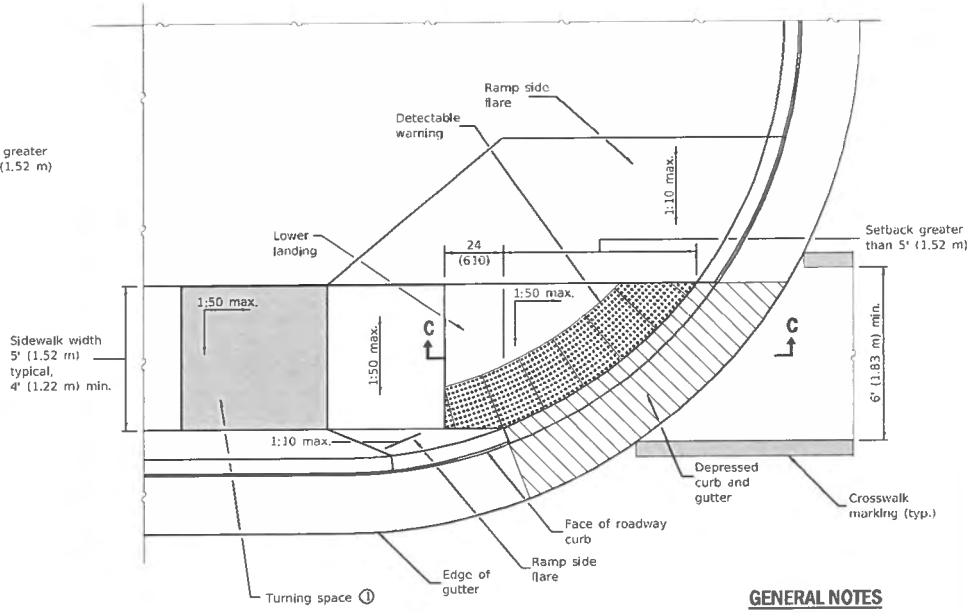
PASSED January 1, 2019
ENGINEER OF POLICY AND PROCEDURES

APPROVED January 1, 2019
ENGINEER OF DESIGN AND ENVIRONMENT

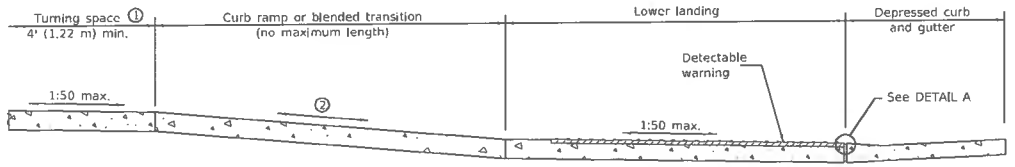
ISSUED 1-1-97



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.

Illinois Department of Transportation

PASSED January 1, 2019
ENGINEER OF POLICY AND PROCEDURES

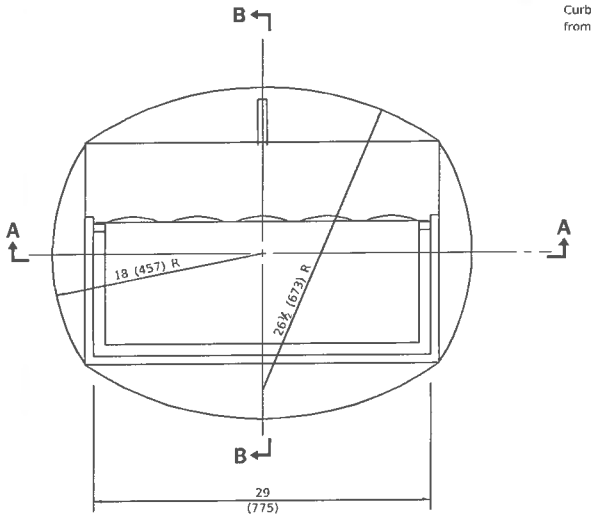
APPROVED January 1, 2019
ENGINEER OF DESIGN AND ENVIRONMENT

BSLD 1-1-19

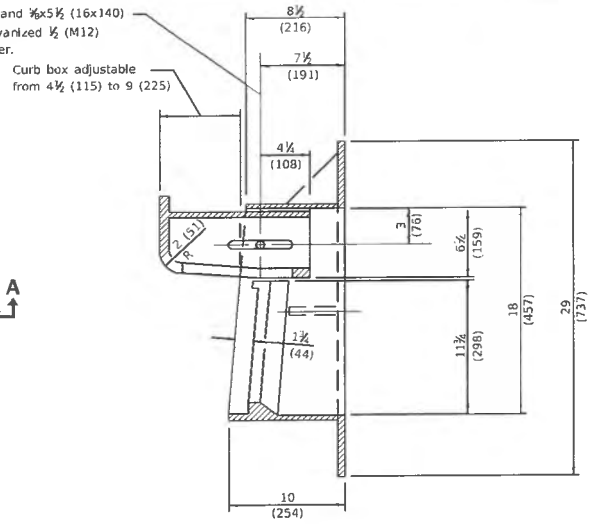
PERPENDICULAR CURB RAMPS FOR SIDEWALKS

(Sheet 2 of 2)

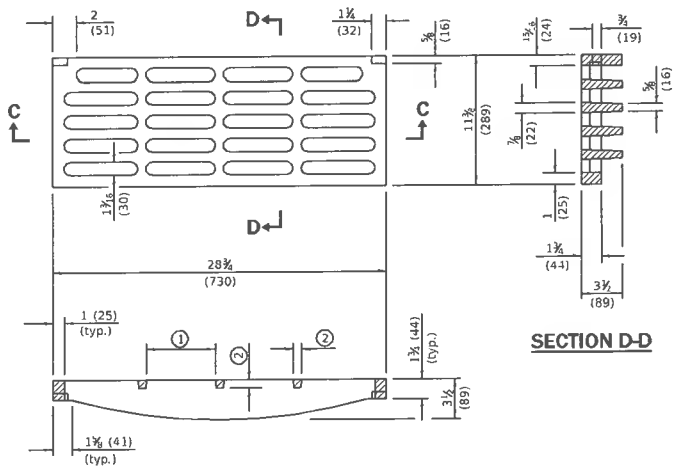
STANDARD 424001-11



CAST FRAME



SECTION B-B



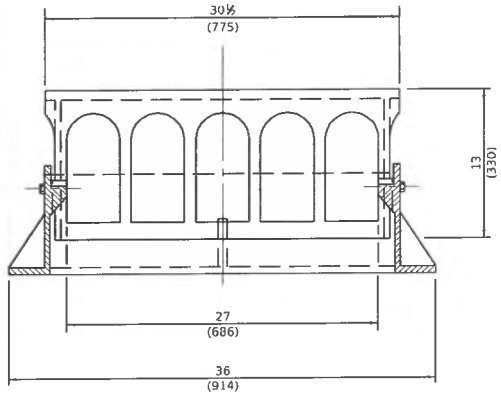
SECTION C-C

SECTION D-D

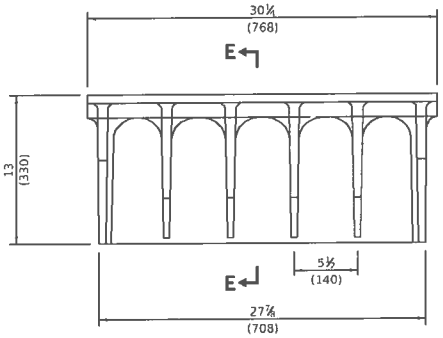
① = 6¼ (159) max. (typ.)

② = ¾ (19) min. (typ.)

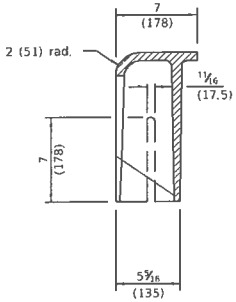
CAST GRATE



SECTION A-A



ALTERNATE CURB BOX



SECTION E-E

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

Illinois Department of Transportation

PASSED January 1, 2015
Michael Brand
ENGINEER OF POLICY AND PROCEDURES

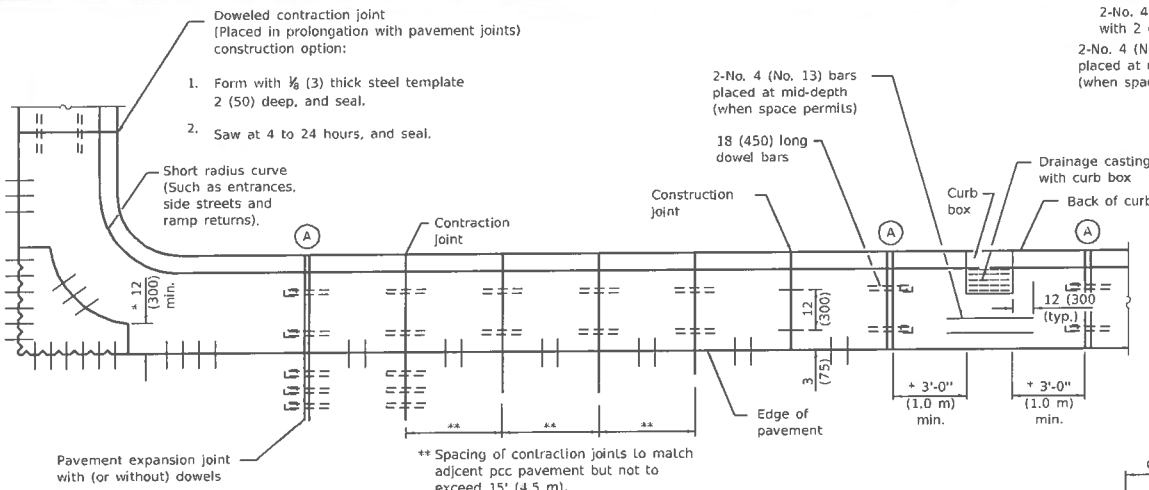
APPROVED January 1, 2015
ENGINEER OF DESIGN AND ENVIRONMENT

ISSUED 1-1-15

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

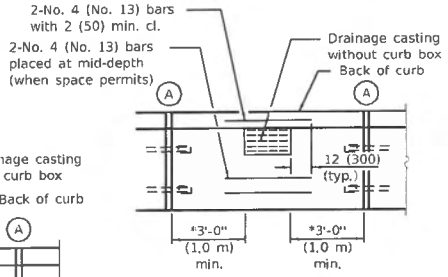
FRAME AND GRATE TYPE 11

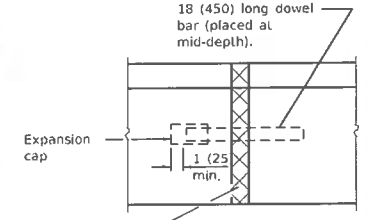
STANDARD 604051-04



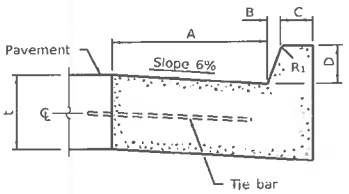
PLAN
ADJACENT TO PCC PAVEMENT OR PCC BASE COURSE

* This dimension shall be adjusted to align with joint on the adjacent pavement





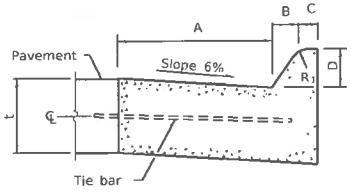
DETAIL (A)
EXPANSION JOINT



BARRIER CURB

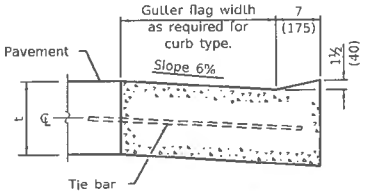
TABLE OF DIMENSIONS BARRIER CURB					
TYPE	A	B	C	D	R_1
B-6.06 * (B-15.15)	6 (150)	1 (25)	6 (150)	6 (150)	1 (25)
B-6.12 (B-15.3)	12 (300)	1 (25)	6 (150)	6 (150)	1 (25)
B-6.18 (B-15.45)	18 (450)	1 (25)	6 (150)	6 (150)	1 (25)
B-6.24 (B-15.60)	24 (600)	1 (25)	6 (150)	6 (150)	1 (25)
B-9.12 (B-22.30)	12 (300)	2 (50)	5 (125)	9 (225)	1 (25)
B-9.18 (B-22.45)	18 (450)	2 (50)	5 (125)	9 (225)	1 (25)
B-9.24 (B-22.60)	24 (600)	2 (50)	5 (125)	9 (225)	1 (25)

* For corner islands only.

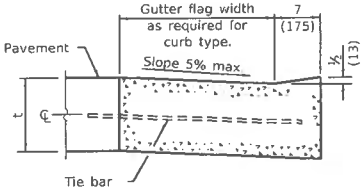


MOUNTABLE CURB

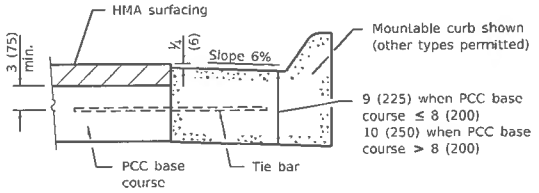
TABLE OF DIMENSIONS MOUNTABLE CURB						
TYPE	A	B	C	D	R_1	R_2
M-2.06 (M-5.15)	6 (150)	2 (50)	4 (100)	2 (50)	3 (75)	2 (50)
M-2.12 (M-5.30)	12 (300)	2 (50)	4 (100)	2 (50)	3 (75)	2 (50)
M-4.06 (M-10.15)	6 (150)	4 (100)	3 (75)	4 (100)	3 (75)	NA
M-4.12 (M-10.30)	12 (300)	4 (100)	3 (75)	4 (100)	3 (75)	NA
M-4.18 (M-10.45)	18 (450)	4 (100)	3 (75)	4 (100)	3 (75)	NA
M-4.24 (M-10.60)	24 (600)	4 (100)	3 (75)	4 (100)	3 (75)	NA
M-6.06 (M-15.15)	6 (150)	6 (150)	2 (50)	6 (150)	2 (50)	NA
M-6.12 (M-15.30)	12 (300)	6 (150)	2 (50)	6 (150)	2 (50)	NA
M-6.18 (M-15.45)	18 (450)	6 (150)	2 (50)	6 (150)	2 (50)	NA
M-6.24 (M-15.60)	24 (600)	6 (150)	2 (50)	6 (150)	2 (50)	NA



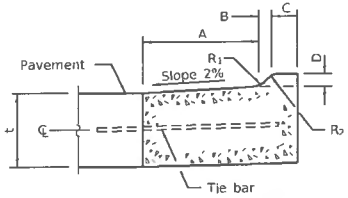
DEPRESSED CURB (TYPICAL)



DEPRESSED CURB ADJACENT TO CURB RAMP ACCESSIBLE TO THE DISABLED



ADJACENT TO PCC BASE COURSE WITH HMA SURFACING



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

GENERAL NOTES

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

t = Thickness of pavement.

Longitudinal joint tie bars shall be No. 6 (No. 19) at 36 (900) centers in accordance with details for longitudinal construction joint shown on Standard 420001.

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

The dowel bars shown in contraction joints will only be required for monolithic construction.

See Standard 606301 for details of corner islands.

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

Illinois Department of Transportation

PASSED January 1, 2022
ENGINEER OF POLICY AND PROCEDURES

APPROVED January 1, 2022
ENGINEER OF DESIGN AND ENVIRONMENT

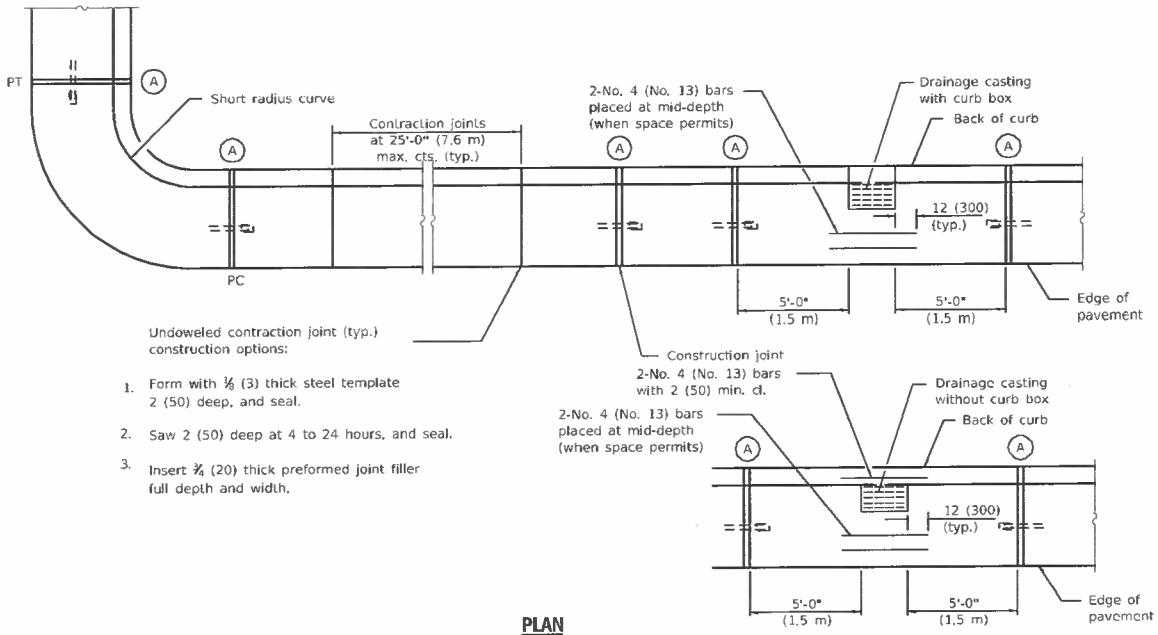
ISSUED 1-1-07

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

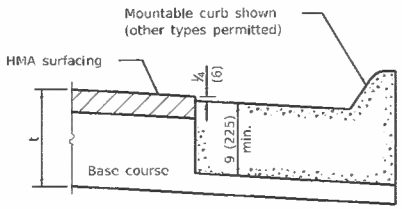
CONCRETE CURB TYPE B AND COMBINATION CONCRETE CURB AND GUTTER

(Sheet 1 of 2)

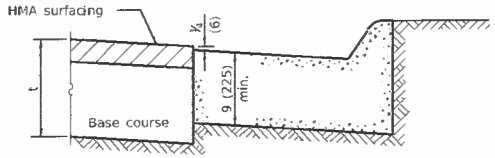
STANDARD 606001-08



PLAN

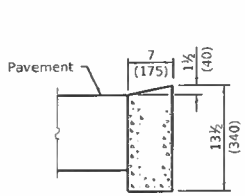


ON DISTURBED SUBGRADE

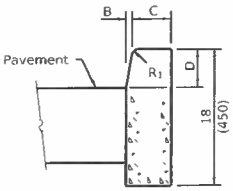


ON UNDISTURBED SUBGRADE

ADJACENT TO FLEXIBLE PAVEMENT

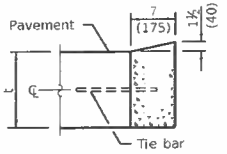


DEPRESSED CURB

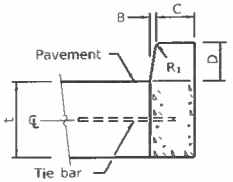


BARRIER CURB

ADJACENT TO FLEXIBLE PAVEMENT



DEPRESSED CURB



BARRIER CURB

ADJACENT TO PCC PAVEMENT OR PCC BASE COURSE

CONCRETE CURB TYPE B

Illinois Department of Transportation

PASSED January 1, 2022
Engineer of Policy and Procedures

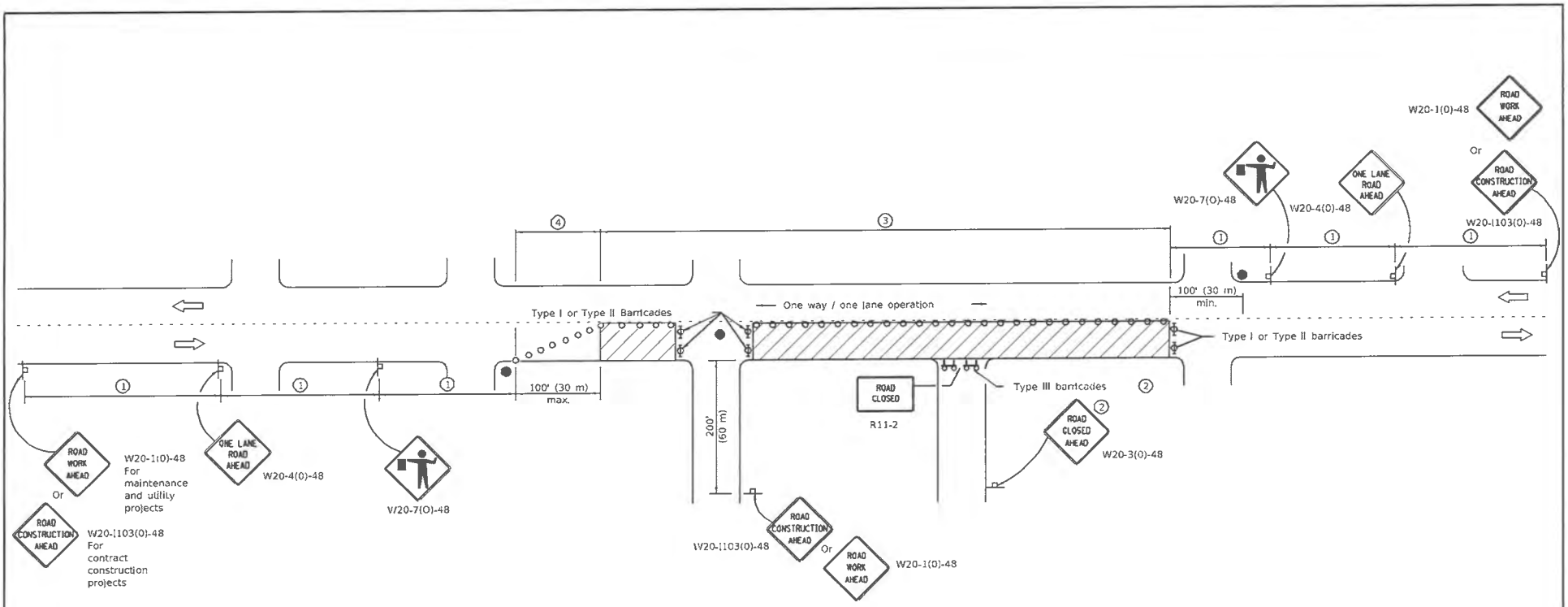
APPROVED January 1, 2022
Engineer of Design and Environment

ISSUED 1-1-07

CONCRETE CURB TYPE B AND COMBINATION CONCRETE CURB AND GUTTER

(Sheet 2 of 2)

STANDARD 606001-08



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

SYMBOLS

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

(1) Refer to SIGN SPACING TABLE for distances.

(2) For approved sideroad closures.

(3) Cones at 25' (8 m) centers for 250' (75 m). Additional cones may be placed at 50' (15 m) centers. When drums or Type I or Type II barricades are used, the interval between devices may be doubled.

(4) Cones, drums or barricades at 20' (6 m) centers.

GENERAL NOTES

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

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

Illinois Department of Transportation

PASSED January 1, 2011
ENGINEER OF SAFETY ENGINEERING

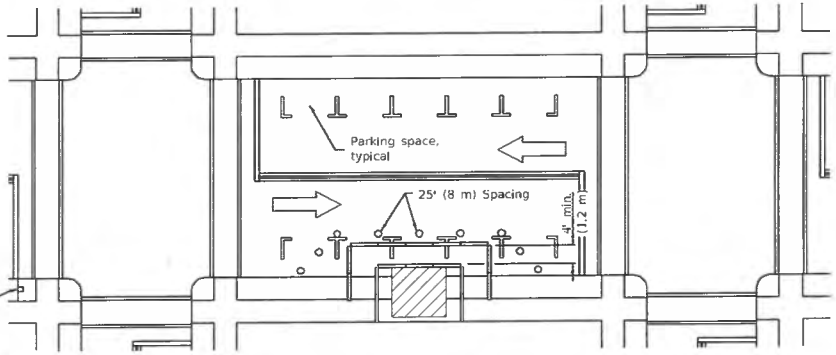
APPROVED January 1, 2011
ENGINEER OF DESIGN AND ENVIRONMENT

ISSUED 1-1-07

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-I103(0)-48 for contract construction projects

Or

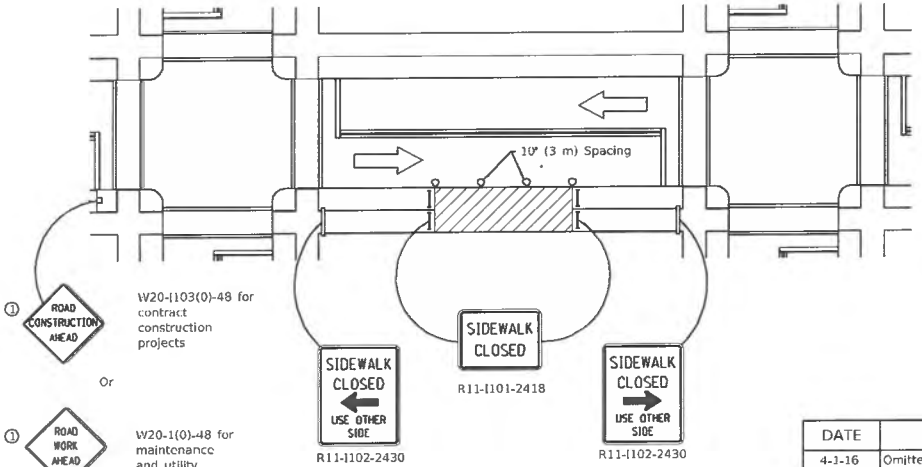
① ROAD WORK AHEAD — W20-1(0)-48 for maintenance and utility projects

SIDEWALK DIVERSION

① Omit whenever duplicated by road work traffic control.

SYMBOLS

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



① ROAD CONSTRUCTION AHEAD — W20-I103(0)-48 for contract construction projects

Or

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

SIDEWALK CLOSURE

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

PASSED April 1, 2016
ENGINEER OF SAFETY ENGINEERING

APPROVED April 1, 2016
ENGINEER OF DESIGN AND ENVIRONMENT

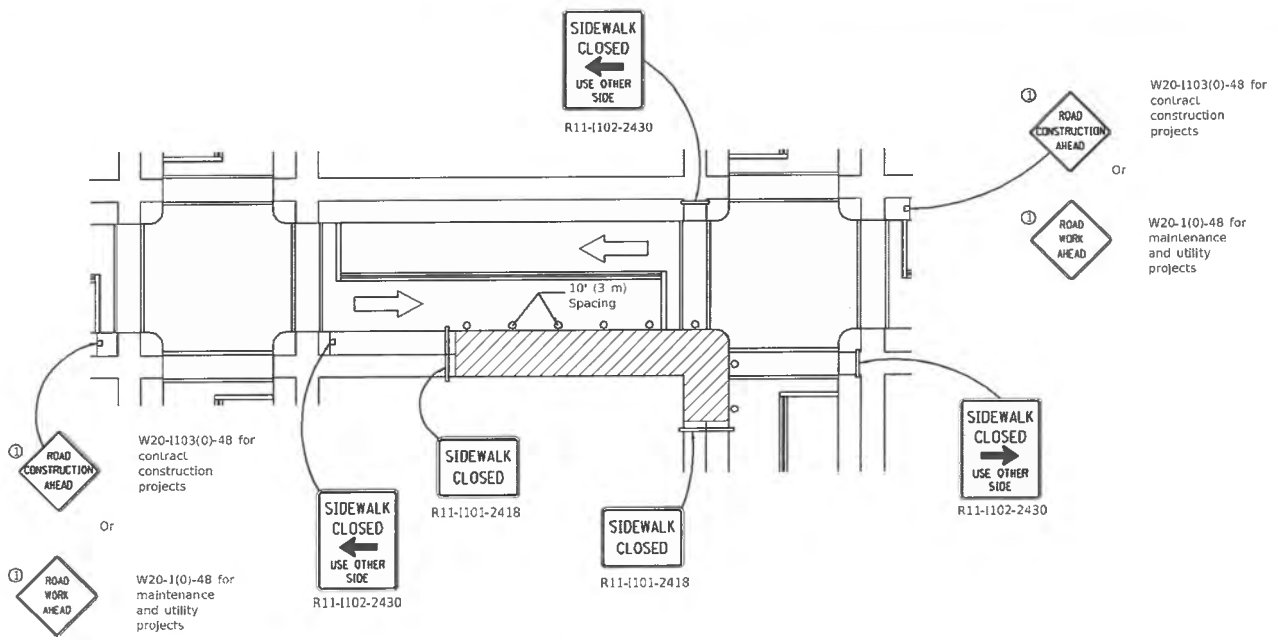
ISSUED 11-97

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

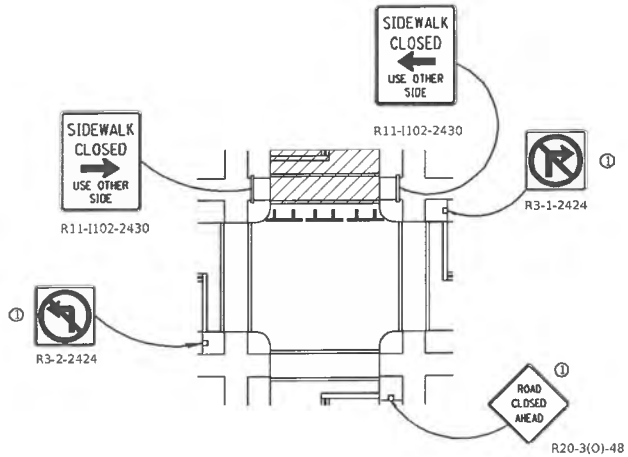
SIDEWALK, CORNER OR CROSSWALK CLOSURE

(Sheet 1 of 2)

STANDARD 701801-06



CORNER CLOSURE



CROSSWALK CLOSURE

Illinois Department of Transportation

PASSED April 1, 2016
ENGINEER OF SAFETY ENGINEERING

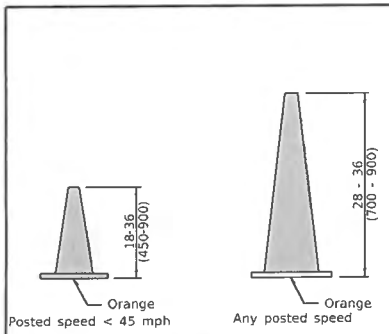
APPROVED April 1, 2016
ENGINEER OF DESIGN AND ENVIRONMENT

ISSUED 1-1-07

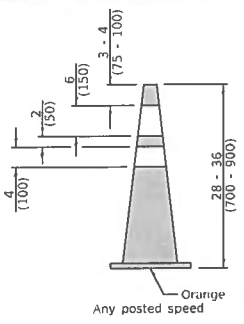
SIDEWALK, CORNER OR CROSSWALK CLOSURE

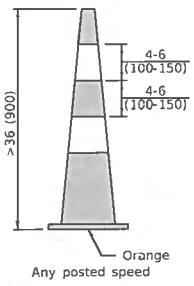
(Sheet 2 of 2)

STANDARD 701801-06



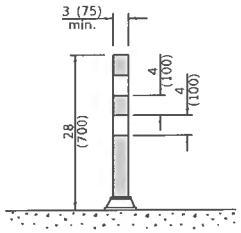
DAYTIME USE



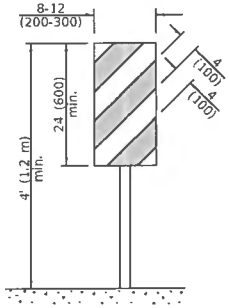


DAY OR NIGHTTIME USE

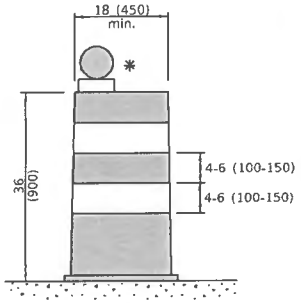
CONES



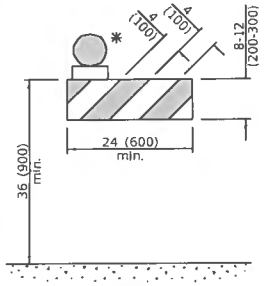
TUBULAR MARKER



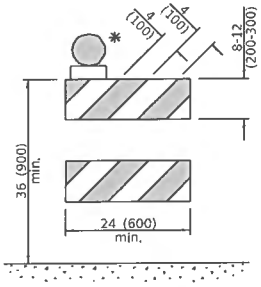
VERTICAL PANEL
POST MOUNTED



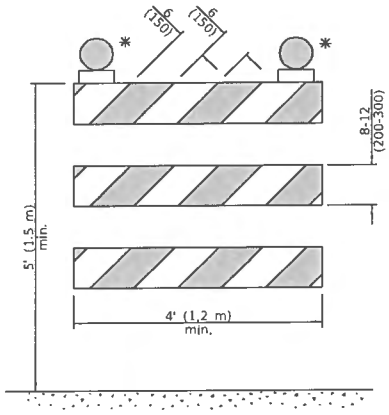
DRUM



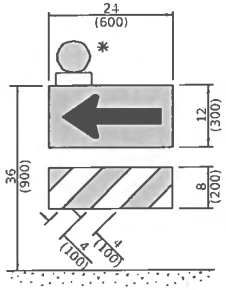
TYPE I BARRICADE



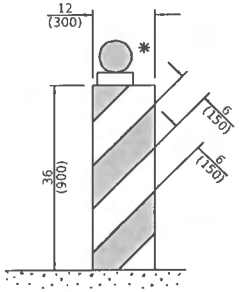
TYPE II BARRICADE



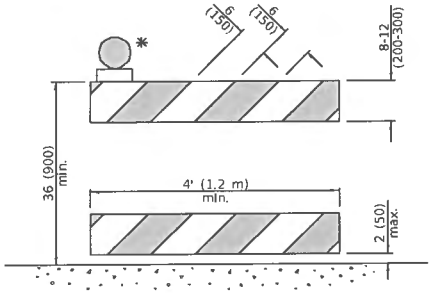
TYPE III BARRICADE



DIRECTION INDICATOR BARRICADE



VERTICAL BARRICADE



DETECTABLE PEDESTRIAN CHANNELIZING BARRICADE

* Warning lights (If required)

GENERAL NOTES

All heights shown shall be measured above the pavement surface.

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

Illinois Department of Transportation

APPROVED January 1, 2019
ENGINEER OF SAFETY PROG. AND ENGINEERING

APPROVED January 1, 2019
ENGINEER OF DESIGN AND ENVIRONMENT

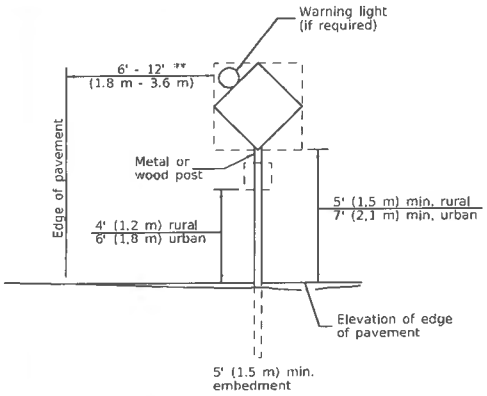
RESOLD 1-1-19

DATE	REVISIONS
1-1-19	Revised cone usage and
	added cones >36" (900 m) height.
1-1-18	Revised END WORK ZONE
	SPEED LIMIT sign from
	orange to white background.

TRAFFIC CONTROL DEVICES

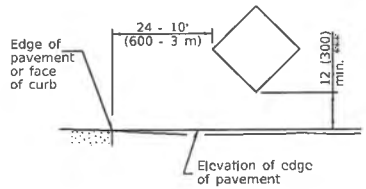
(Sheet 1 of 3)

STANDARD 701901-08



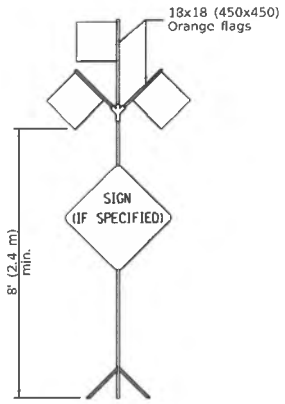
POST MOUNTED SIGNS

** 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



G20-1104(0)-6036

G20-1105(0)-6024

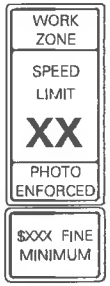
This signing is required for all projects 2 miles (3200 m) or more in length.

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



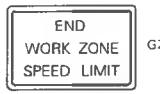
W21-1105(0)-3618

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

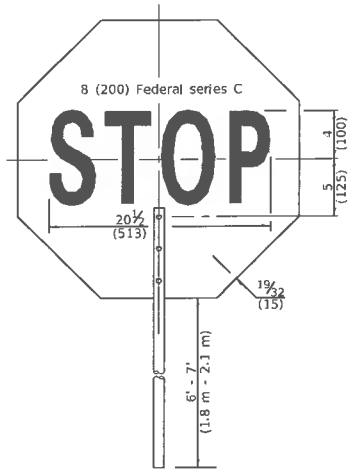
**** R10-1108p shall only be used along roadways under the jurisdiction of the State.



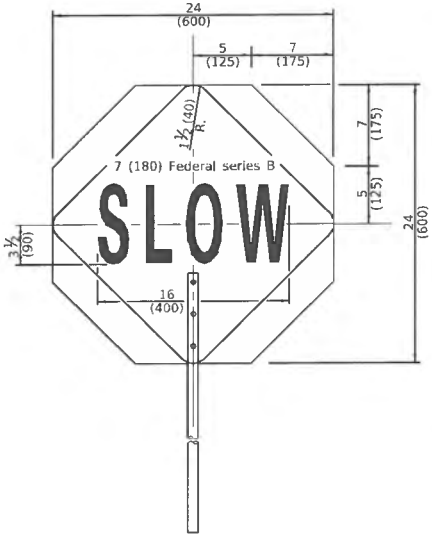
W12-1103-4848

WIDTH RESTRICTION SIGN

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



FRONT SIDE



REVERSE SIDE

FLAGGER TRAFFIC CONTROL SIGN

Illinois Department of Transportation

APPROVED January 1, 2019
ENGINEER OF SAFETY PROG. AND ENGINEERING

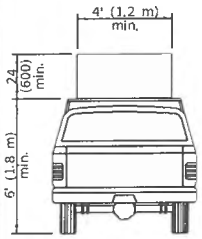
APPROVED January 1, 2019
ENGINEER OF DESIGN AND ENVIRONMENT

ISSUED 11-13

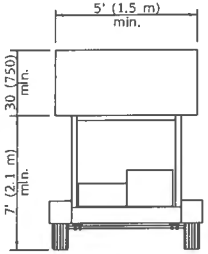
TRAFFIC CONTROL DEVICES

(Sheet 2 of 3)

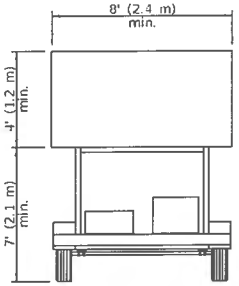
STANDARD 701901-08



TYPE A ROOF MOUNTED

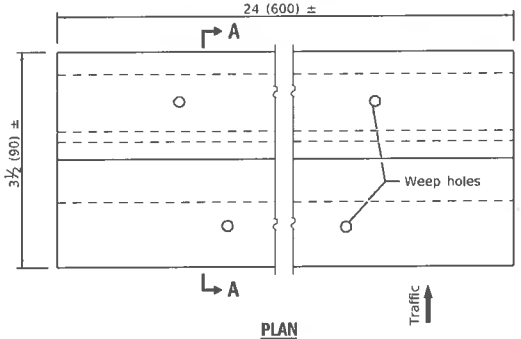


TYPE B ROOF OR TRAILER MOUNTED

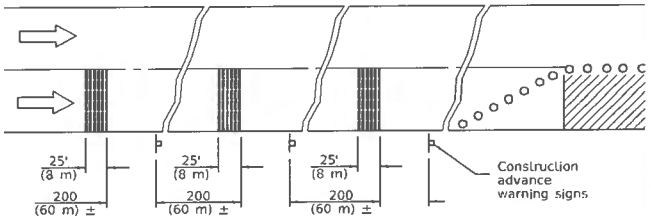


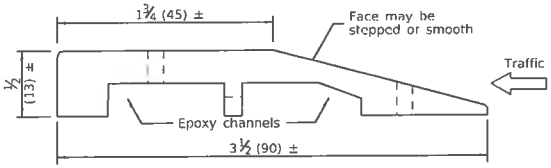
TYPE C TRAILER MOUNTED

ARROW BOARDS

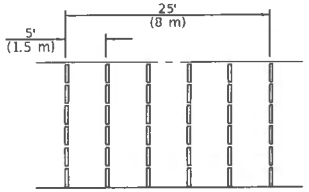


PLAN



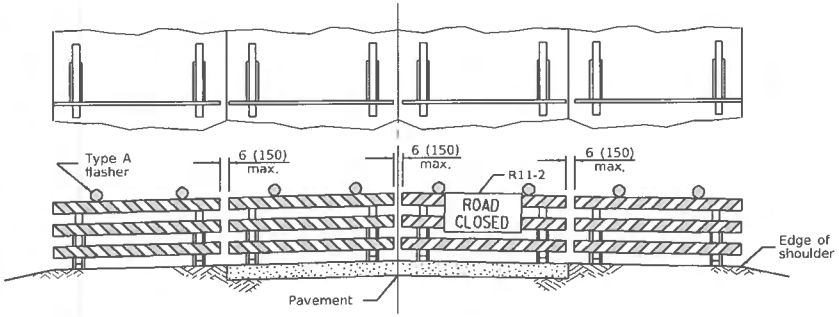


SECTION A-A



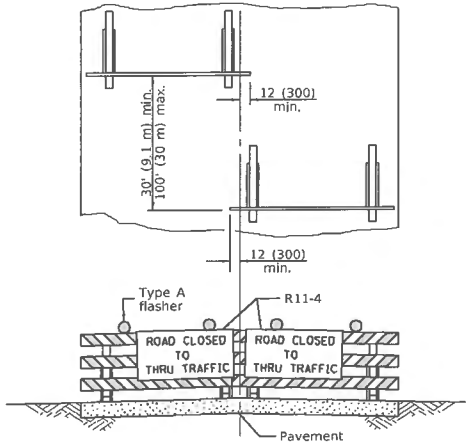
TYPICAL INSTALLATION

TEMPORARY RUMBLE STRIPS



ROAD CLOSED TO ALL TRAFFIC

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



ROAD CLOSED TO THRU TRAFFIC

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

TYPICAL APPLICATIONS OF TYPE III BARRICADES CLOSING A ROAD

Illinois Department of Transportation

APPROVED January 1, 2019
ENGINEER OF SAFETY PROG. AND ENGINEERING

APPROVED January 1, 2019
ENGINEER OF DESIGN AND ENVIRONMENT

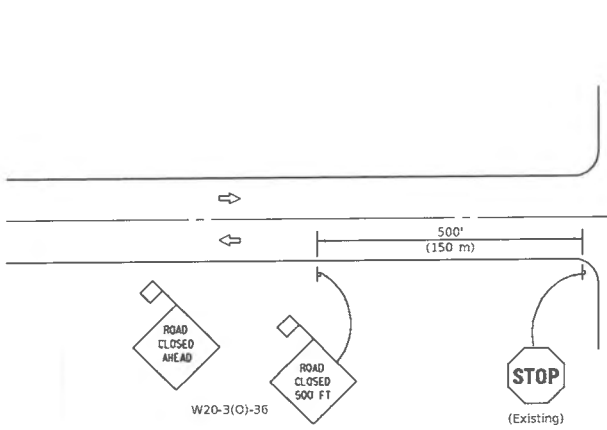
ISSUED 1-1-13

TRAFFIC CONTROL DEVICES

(Sheet 3 of 3)

STANDARD 701901-08

CONDITION I
APPROACH TRAFFIC STOPPED



CONDITION II
APPROACH TRAFFIC DOES NOT STOP

SYMBOLS

Work area

Type III Barricade

Sign with 18x18 (450x450) min. orange flag attached

GENERAL NOTES

Type III Barricades and R11-4-6030 signs shall be positioned as shown in the "Road Closed To All Traffic" detail on Highway Standard 701901. If the distance "D" exceeds 2000' (600 m), an additional set of barricades and R11-4-6030 shall be placed at each end of the work area.

Two Type A Low Intensity Flashing Lights shall be used on each approach in advance of the work area. One light shall be installed above each barricade. If only one barricade is required, the other light shall be installed above the first advance warning sign.

All warning signs shall have minimum dimensions of 36 x 36 (900 x 900) and have a black legend on an orange reflectorized background.

When fluorescent signs are used, orange flags are not required.

Longitudinal dimensions may be adjusted to fit field conditions.

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

Illinois Department of Transportation

PASSED January 1, 2012
ENGINEER OF LOCAL ROADS AND STREETS

APPROVED January 1, 2012
ENGINEER OF DESIGN AND ENVIRONMENT

BLR 00521 1-1-97

DATE	REVISIONS
1-1-12	Omitted two notes from
	GENERAL NOTES.
1-1-09	Revised General Notes
	and switched units to
	English (metric).

TYPICAL APPLICATION OF TRAFFIC CONTROL DEVICES FOR CONSTRUCTION ON RURAL LOCAL HIGHWAYS

(TWO-LANE TWO WAY RURAL TRAFFIC)
(ROAD CLOSED TO THRU TRAFFIC)

STANDARD B.L.R. 22-7

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/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 Dawn A. Kochan at dkochan@joliet.gov or call 815-724-3926 and we will send you the relevant prevailing wage information.

Local Public Agency	County	Section Number	Route(s) (Street/Road Name)
CITY OF JOLIET	Will	22-00547-00-FP	WALSH AVENUE (TAYLOR St.

PROPOSAL

1. Proposal of _____
Contractor's Name

_____.
Contractor's Address

2. The plans for the proposed work are those prepared by CITY OF JOLIET - ENGINEERING DEPARTMENT and approved by the Department of Transportation on _____.

3. The specifications referred to herein are those prepared by the Department of Transportation and designated as "Standard Specifications for Road and Bridge Construction" and the " Supplemental Specifications and Recurring Special Provisions" thereto, adopted and in effect on the date of invitation for bids.

4. The undersigned agrees to accept, as part of the contract, the applicable Special Provisions indicated on the "Check Sheet for Recurring Special Provisions" contained in this proposal.

5. The undersigned agrees to complete the work within 35 working days or by _____ unless additional time is granted in accordance with the specifications.

6. The successful bidder at the time of execution of the contract _____ be required to deposit a contract bond for the full amount of the award. When a contract bond is not required, the proposal guaranty check will be held in lieu thereof. If this proposal is accepted and the undersigned fails to execute a contract and contract bond as required, it is hereby agreed that the Bid Bond of check shall be forfeited to the Awarding Authority.

7. Each pay item should have a unit price and a total price. If no total price is shown or if there is a discrepancy between the products of the unit price multiplied by the quantity, the unit price shall govern. If a unit price is omitted, the total price will be divided by the quantity in order to establish a unit price. A bid may be declared unacceptable if neither a unit price nor a total price is shown.

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

9. The undersigned further agrees that if awarded the contract for the sections contained in the combinations on BLR 12201, the work shall be in accordance with the requirements of each individual proposal for the multiple bid specified in the Schedule for Multiple Bids below.

10. A proposal guaranty in the proper amount, as specified in BLRS Special Provision for Bidding Requirements and Conditions for Contract Proposals, will be required. Bid Bonds may 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: _____ 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 _____.

RETURN WITH BID

Illinois Department of Transportation

SCHEDULE OF PRICES

County WILL
Local Public Agency CITY OF JOLIET
Section 22 - 00547 - 00 - FP
Route WALSH AVENUE

Schedule for Multiple Bids

Combination Letter	Sections Included in Combinations	Total

Schedule for Single Bid

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

Bidder's Proposal for making Entire Improvements

Item No.	Items	Unit	Quantity	Unit Price	Total
1	TREE ROOT SAWING	EACH	16		
2	PARKWAY EXCAVATION	SQ YD	1545		
3	ROADWAY EXCAVATION	CU YD	635		
4	REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL	CU YD	215		
5	POROUS GRANULAR EMBANKMENT, SPECIAL	CU YD	215		
6	TRENCH BACKFILL	CU YD	765		
7	SUB-BASE GRANULAR MATERIAL, TYPE C 3"	SQ YD	495		
8	AGGREGATE BASE COURSE TYPE B 8"	SQ YD	2245		
9	PREPARATION OF BASE	SQ YD	1965		
10	AGGREGATE BASE REPAIR	TON	75		
11	STORM SEWERS, PVC SDR 26 8"	LIN FT	275		
12	SANITARY SERVICE REPLACEMENT(CASE I)	LIN FT	15		
13	SANITARY SERVICE REPLACEMENT(CASE II)	LIN FT	15		

Bidder's Proposal for making Entire Improvements

Item No.	Items	Unit	Quantity	Unit Price	Total
14	MANHOLES TO BE RECONSTRUCTED	EACH	1		
15	FRAME AND GRATE TO BE FURNISHED & INSTALLED, TYPE 11	EACH	4		
16	COMBINATION CONCRETE CURB & GUTTER, TYPE B-6.12	LIN FT	1390		
17	DRIVEWAY PAVEMENT REMOVAL	SQ YD	170		
18	COMBINATION CURB & GUTTER REMOVAL	LIN FT	1390		
19	SIDEWALK REMOVAL	SQ FT	3425		
20	COMB. CONC. CURB & GUTTER REMOVAL & REPLACEMENT	LIN FT	60		
21	LATE SIDEWALK REMOVAL	SQ FT	500		
22	SIDEWALK REMOVAL AND REPLACEMENT	SQ FT	100		
23	PORTLAND CEMENT CONCRETE DRIVEWAY PAVEMENT, 6"	SQ YD	175		
24	PORTLAND CEMENT CONCRETE SIDEWALK ,5"	SQ FT	3425		
25	FURNISHING AND PLACING TOPSOIL	SQ YD	1490		
26	SODDING	SQ YD	1490		
27	TRAFFIC CONTROL AND PROTECTION	L SUM	1		
28	SAWCUT ASPHALT SURFACE	LIN FT	389		
29	SAWCUT CONCRETE SURFACE	LIN FT	404		
30	ASHPALT/CONCRETE SAWING	LIN FT	20		
31	MODULAR CONCRETE BLOCK RETAINING WALL	SQ FT	20		
32	MODULAR CONCRETE BLOCK RETAINING WALL TO BE REMOVED AND RE-ERECTED	SQ FT	50		
33	PROTECTIVE COAT	SQ YD	805		
34	TEMPORARY DRIVEWAY ACCESS	TON	50		
35	DETECTABLE WARNINGS	SQ FT	120		
36	EROSION CONTROL	L SUM	1		

Bidder's Proposal for making Entire Improvements

Item No.	Items	Unit	Quantity	Unit Price	Total
37	SUMP LINE CONNECTION VARIOUS SIZES	EACH	1		
38	CLEAN OUT STRUCTURE	EACH	1		
39	REMOVAL AND DISPOSAL OF CONTAMINATED MATERIAL	CU YD	300		
40	HARDWOOD MULCH	EACH	16		
41	DUCTILE IRON WATER MAIN 8", CLASS 52 ZINC COATED (W/ V-BIO POLYWRAP)	LIN FT	675		
42	DUCTILE IRON WATER MAIN 6", CLASS 52 ZINC COATED (W/ V-BIO POLYWRAP)	LIN FT	50		
43	8" GATE VALVE COMPLETE WITH VALVE BOX	EACH	2		
44	WATER SERVICE CONNECTION	EACH	23		
45	WATER SERVICE LINE, COPPER TYPE K - 1" (LEAD ONLY)	LIN FT	750		
46	WATER SERVICE LINE, COPPER TYPE K - 1.5" (LEAD ONLY)	LIN FT	100		
47	MISCELLANEOUS FITTINGS	POUND	2500		
48	8" X 6" TEE (TYLER 5-635 OR EQUIVALENT)	EACH	3		
49	8" X 8" TEE (TYLER 5-635 OR EQUIVALENT)	EACH	1		
50	6" X 6" TEE (TYLER 5-635 OR EQUIVALENT)	EACH	1		
51	VALVE VAULTS, TYPE A, 4' DIA. TYPE 1 FRAME, CLOSED LID	EACH	1		
52	SIDEWALK REMOVAL & REPLACEMENT	SQ FT	100		
53	HOT MIX ASPHALT REMOVAL AND REPLACEMENT, 4"	SQ YD	563		
54	FIRE HYDRANT COMPLETE WITH AUXILIARY VALVE	EACH	3		
55	FIRE HYDRANT TO BE REMOVED	EACH	1		
56	SANITARY SERVICE REPLACEMENT, PVC SDR 26, 6"	LIN FT	25		
57	CONNECTION TO EXISTING 8" WATER MAIN (NON-PRESSURE) W/ FITTINGS	EACH	1		
58	CONNECTION TO EXISTING 6" WATER MAIN (NON-PRESSURE) W/ FITTINGS	EACH	1		
59	6" CAP	EACH	2		

Bidder's Proposal for making Entire Improvements

Item No.	Items	Unit	Quantity	Unit Price	Total
60	PROJECT MANAGEMENT (LEAD ONLY)	HRS	24		
61	1" WATER SERVICE LINE TYPE K - DIRECTIONAL DRILLING	LIN FT	200		
62	PROPERTY - BASEMENT/CRAWL SPACE (LEAD ONLY)	EACH	4		
63	WATER SERVICE CONNECTION ON PRIVATE PROPERTY - SLAB (LEAD ONLY)	EACH	1		
64	WATER SERVICE LINE TYPE L - 1" (LEAD ONLY)	LIN FT	20		
65	UTILITY LOCATION - PRIVATE PROPERTY (LEAD ONLY)	EACH	8		
66	WATER METER RELOCATION	EACH	3		
67	VALVE VAULT TO BE REMOVED	EACH	1		
68	VALVE BOX TO BE REMOVED	EACH	1		
69	TREE TRIMMING	L SUM	1		

BIDDER'S EMAIL ADDRESS _____

BIDDER'S PHONE NUMBER(S) _____

Local Public Agency	County	Section Number	Route(s) (Street/Road Name)
CITY OF JOLIET	Will	22-00547-00-FP	WALSH AVENUE (TAYLOR St

CONTRACTOR CERTIFICATIONS

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

1. **Debt Delinquency.** The bidder or contractor or subcontractor, respectively, certifies that it is not delinquent in the payment of any tax administered by the Department of Revenue unless the individual or other entity is contesting, in accordance with the procedure established by the appropriate Revenue Act, its liability for the tax or the amount of the tax. Making a false statement voids the contract and allows the Department to recover all amounts paid to the individual or entity under the contract in a civil action.

2. **Bid-Rigging or Bid Rotating**. The bidder or contractor or subcontractor, respectively, certifies that it is not barred from contracting with the Department by reason of a violation of either 720 ILCS 5/33E-3 or 720 ILCS 5/33E-4.

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

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

3. **Bribery.** The bidder or contractor or subcontractor, respectively, certifies that, it has not been convicted of bribery or attempting to bribe an officer or employee of the State of Illinois or any unit of local government, nor has the firm made an admission of guilt of such conduct which is a matter or record, nor has an official, agent, or employee of the firm committed bribery or attempted bribery on behalf of the firm and pursuant to the direction or authorization of a responsible official of the firm.

4. **Interim Suspension or Suspension.** The bidder or contractor or subcontractor, respectively, certifies that it is not currently under a suspension as defined in Subpart I of Title 44 Subtitle A Chapter III Part 6 of the Illinois Administrative code. Furthermore, if suspended prior to completion of this work, the contract or contracts executed for the completion of this work may be canceled.

Local Public Agency	County	Section Number	Route(s) (Street/Road Name)
CITY OF JOLIET	Will	22-00547-00-FP	WALSH AVENUE (TAYLOR St

SIGNATURES

(If an individual)

Signature of Bidder | 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

Illinois Department of Transportation

Local Public Agency Proposal Bid Bond

Local Public Agency	County	Section Number
CITY OF JOLIET	Will	22-00547-00-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
	By:		

Company Name	Signature	Date	Title
	By:		

(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	Signature of Attorney-in-Fact	Date
	By:	

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) day of _____ (Month and Year).

Notary Public Signature

(SEAL)

Date commission expires _____

Local Public Agency	County	Section Number
CITY OF JOLIET	Will	22-00547-00-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

Illinois Department of Transportation

Affidavit of Availability

For the Letting of 06/06/22

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	

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Portland Cement Concrete Paving						
HMA Plant Mix						
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Aggregate Bases, Surfaces						
Highway, R.R., Waterway Struc.						
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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.

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Subcontractor					
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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 _____ , _____

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(Signature of Notary Public)

My commission expires _____

(Notary Seal)

☐ Add pages for additional contracts

Illinois Department of Transportation

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	2	3	4	Awards Pending	1
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Subcontractor					
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Signature

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Address

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Zip Code

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(Notary Seal)