



# REQUEST FOR BID

## Orchard Court Pavement Reconstruction – Phase 2 City of Troy, IL

**BID RESPONSES MUST BE RECEIVED BY: 10:00am local time on Thursday, March 30, 2023.**

The City of Troy seeks a qualified contractor for Orchard Court Pavement Reconstruction-Phase 2. The Bid Packet may be obtained from our website at [www.troyil.us](http://www.troyil.us) (home page), or picked up at the Troy Municipal Building, 116 E. Market St, (Administration Office), Troy, IL. To bid the project, you must register as a plan-holder with the Assistant to the City Administrator Michele Colligan. Please contact Michele at 618-667-9924 ext.1 to register and/or for assistance in viewing, downloading, and working with this digital project information. All addenda will be posted on [www.troyil.us](http://www.troyil.us). Please submit any questions regarding this bid in writing to the City Engineer, Tom Cissell via email to: [tom.cissell@oatesassociates.com](mailto:tom.cissell@oatesassociates.com).

**MAILING INSTRUCTION:** Print or type Bid Title and Due Date on the lower left-hand corner of the envelope or package. Delivered **SEALED BIDS** must be received in the Administration Office prior to **10:00am on March 30, 2023**. Bids will be opened by the Purchasing Manager at the location listed below.

**RETURN BID TO:** City of Troy Public Works Attn: Tom Cissell  
 116 E. Market St.  
 Troy, IL 62294

By signing this cover page, the bidder shall hereby declare understanding, agreement and certification of compliance to provide the items and/or services, at the prices quoted, in accordance with all requirements and specifications contained herein and the Terms and Conditions. In addition, the bidder shall further agree that upon receipt of an authorized purchase order from the City of Troy or when a Contract Resolution is signed and issued by an authorized official of the City of Troy, a binding contract shall exist between the bidder and the City of Troy.

**SIGNATURE REQUIRED / RETURN WITH BID**

LEGAL NAME OF ENTITY/INDIVIDUAL FILED WITH IRS FOR THIS TAX ID NO.	DOING BUSINESS AS (DBA) NAME
MAILING ADDRESS	
CITY, STATE, ZIP CODE	
CONTACT PERSON	EMAIL ADDRESS
PHONE NUMBER	FAX NUMBER
TAXPAYER ID NUMBER (TIN)	TAXPAYER ID (TIN) TYPE (CHECK ONE) _____ FEIN        _____ SSN
VENDOR TAX FILING TYPE WITH IRS (CHECK ONE) Individual/Sole Proprietor _____ C Corporation _____ S Corporation _____ Partnership _____ LLC, Class _____ Other _____	
AUTHORIZED SIGNATURE	DATE
PRINTED NAME	TITLE

The City of Troy reserves the right to accept or refuse any or all bids.

**CITY OF TROY, ILLINOIS**  
**GENERAL TERMS AND CONDITIONS OF BIDDING**

1. **Opening Location:** Sealed proposals will be received at City of Troy Municipal Building, 116 E. Market. St., Troy, IL 62294, until the proposal closing date and time indicated above.
2. **Opening of advertised proposals:** The vendor and public are invited, but not required, to attend the opening of proposals. No decision related to an award of a contract or purchase order will be made at the opening.
3. **Submittal of Proposals:** Proposals must be submitted in a sealed envelope identified with the bid title and date of closing on the outside. Facsimile, telephone and email proposals will NOT be considered. Proposals will not be accepted after the due date and time.
4. All proposals shall be submitted FOB Destination Troy, Illinois 62294, freight prepaid (unless otherwise stated).
5. **Prices Bid:** Give unit price, extended total or both if applicable. Price must be stated in units of quantity specified in the bidding specifications. In case of discrepancy in computing the amount of the Bid, the unit price of the Bid will govern. Each item must be bid separately, and no attempt is to be made to tie any item or items in with any other item or items.
6. **Taxes:** Do NOT include Federal Excise Tax or Sales and Use Tax in the bid prices, as the City is exempt from them by law. Tax Exemption Certificate will be furnished if required.
7. **Estimated Quantities:** The estimated quantities indicated in this Request for Proposal represent anticipated requirements only. The right is reserved to exceed or diminish these estimates.
8. **Bid Forms, Variances, and Alternates:** Bids must be submitted on attached City bid forms, although additional information may be attached. Bidders must indicate any variances from the City requested specifications and/or terms and conditions, on the Affidavit of Compliance. Otherwise, bidders must fully comply with the City requested specifications and terms and conditions. Alternate Bids may or may not be considered at the sole discretion of the City of Troy.
9. **“Or Equal” Interpretation:** When a particular manufacturer’s name or brand is specified along with the words “or equal”, Quotations will be considered on other brands or the product of other manufacturers. On all such Quotations the bidder shall indicate clearly the product (brand and model number) on which he is bidding, and shall supply a sample or sufficient data in detail to enable an intelligent comparison to be made with the particular brand or manufacturer specified. Catalog cuts and technical descriptive data shall be attached to the original copy of the quote where applicable. Failure to submit the above information may be sufficient grounds for the rejection of quote.
10. **Withdrawal of Bids:** Bids or proposals may be revised, modified, or withdrawn by the bidder at any time prior to opening. Any such revision, modification, or withdrawal shall be in writing. After the bids are opened, they shall be irrevocable for the period sixty (60) days. Bids or proposals may not be withdrawn or revised after opening unless specified in the RFP.
11. **Clarification and Addenda:** Each bidder shall examine all Bid documents and shall judge all matters relating to the adequacy and accuracy of such documents. Any inquiries or suggestions, concerning interpretation, clarification, or additional information pertaining to the Request for Proposal shall be made through the Administration Office in writing or through email. The Administration Office shall not be responsible for oral interpretations given by any City employee, representative, or others. The issuance of written addenda is the official method whereby interpretation, clarification, or additional information can be given. It shall be the responsibility of each bidder, prior to submitting their Bid, to contact the Administration Office at phone number 618-667-9924 or [jkeeven@troyil.us](mailto:jkeeven@troyil.us), to determine if addenda were

issued and to make such addenda a part of their Bid. Any and all addendums will be posted on the City's web site ([www.troyil.us](http://www.troyil.us)) under Current Bid Opportunities.

12. **Contract Forms:** Any agreement, contract, or purchase order resulting from the acceptance of a Bid shall be on forms either supplied by or approved by the City.
13. **Reserved Rights:** The City reserves the right to make such investigations as it deems necessary to make the determination of the bidder's responsiveness and responsibility. Such information may include, but shall not be limited to: current financial statement, verification of availability of equipment and personnel, and past performance records.
14. **The Right to Audit:** The bidder agrees to furnish supporting detail as may be required by the City to support charges or invoices, to make available for audit purposes all records covering charges pertinent to the purchase, and to make appropriate adjustments in the event discrepancies are found.
15. **Applicable Law:** All applicable laws and regulations of the State of Illinois and the City will apply to any resulting agreement, contract, or purchase order. Further, any and all disputes arising out of and/or related in any way to this RFB process or any contract executed after bid acceptance. and/or the work at issue which is the subject of this RPB, shall be filed exclusively in the Circuit Court for the Third Judicial Circuit, Madison County, Illinois.
16. **Right to Protest:** Protestors shall seek resolution of their complaints initially with the City Administration Office. Any protest must state the basis upon which the solicitation or award is contested and shall be submitted within ten (10) calendar days after such aggrieved person knew or could have reasonably been expected to know of the facts giving rise thereto.
17. **Quality Guaranty:** If any product delivered does not meet applicable specifications or if the product will not produce the effect that the bidder represents to the City, the bidder shall pick up the product from the City at no expense. Also, the Bidder shall refund to the City any money which has been paid for same. The bidder will be responsible for any and all costs and attorney fees in the event the bidder defaults and court action is required.
18. **Quality Terms:** The City reserves the right to reject any or all materials if, in its judgment, the item reflects unsatisfactory workmanship, manufacturing, or shipping damages.
19. **No-Bid:** In the event you are unable to quote on this requirement, please return the "No-bid Response Form", on or before the bid closing date. Please indicate the reason(s) you are unable to participate in this solicitation.
20. **Bid Tabulation:** Bidders may request a copy of the bid tabulation of the Request for Bid through the City's Administration Office.
21. **Expenses:** All expenses for making Proposals to the City of Troy are to be borne by the bidder.
22. **Collusion:** By offering a submission to this Request for Bid, the bidder certifies the bidder has not divulged, discussed, or compared the Bid with other bidders and has not colluded with any other bidder or parties to this RFB whatsoever. Also, the bidder certifies, and in the case of a joint Bid, each party thereto certifies as to their own organization, that in connection with this RFB:
  - a. Any prices and/or cost data submitted have been arrived at independently, without consultation, communication, or agreement for the purpose of restricting competition, as to any matter relating to such prices and/or cost data, with any other bidder or with any competitor.
  - b. Any prices and/or cost data for this Bid have not knowingly been disclosed by the bidder and will not knowingly be disclosed by the bidder prior to the scheduled opening directly or indirectly to any other bidder or to any competitor.

- c. *No attempt has been made or will be made by the bidder to induce any other person or firm to submit or not to submit a Bid for the purpose of restricting competition.*
- d. *The only person or persons interested in this Bid, principal or principals are named therein and that no person other than therein mentioned has any interest in this Bid or in the contract to be entered into.*
- e. *No person or agency has been employed or retained to solicit or secure the contract upon an agreement or understanding for a commission, percentage, brokerage, or contingent fee exempting bona fide employees or established commercial agencies maintained by the Purchaser for the purpose of doing business.*

**23. Liability and Indemnity:**

- a. *In no event shall the City be liable to the Contractor for special, indirect, or consequential damages, except those caused by the City's gross negligence or willful or wanton misconduct arising out of or in any way connected with The RFB process or any contract executed after bid acceptance. The maximum liability of the City shall be limited to the amount of money to be paid or received by the City under any contract executed after bid acceptance.*
  - b. *The Contractor shall defend, indemnify and save harmless the City, its elected or appointed officials, agents and employees from and against any and all liability, suits, damages, costs (including attorney fees), losses, outlays and expenses from claims in any manner caused by, or allegedly caused by, or arising out of, or connected with the RFP process or any contract executed after bid acceptance, including, but not limited to, claims for personal injuries, death, property damage, or for damages from the award of this contract to Contractor.*
  - c. *The Contractor shall indemnify and hold the City harmless from all wages or overtime compensation due any employees in rendering services pursuant to any contract executed after bid acceptance, including payment of reasonable attorneys' fees and costs in the defense of any claim made under the Fair Labor Standards Act, the Illinois Prevailing Wage Law or any other federal or state law.*
24. **Bid Information is Public:** *All documents submitted with any bid or proposal shall become public documents and subject to Illinois State Statute 5 ILCS140/, which is otherwise known as the "Illinois Sunshine Law". By submitting any document to the City of Troy in connection with a bid or proposal, the submitting party recognizes this and waives any claim against the City of Troy and any of its officers and employees relating to the release of any document or information submitted. Each submitting party shall hold the City of Troy and its officers and employees harmless from any claims arising from the release of any document or information made available to the City of Troy arising from any bid opportunity.*
25. **Authorized Product Representation:** *The successful bidder(s) by virtue of submitting the name and specifications of a manufacturer's product will be required to furnish the named manufacturer's product. By virtue of submission of the stated documents, it will be presumed by the City that the bidder(s) is legally authorized to submit and the successful bidder(s) will be legally bound to perform according to the documents.*
26. **Regulations:** *It shall be the responsibility of each bidder to assure compliance with OSHA, EPA, Federal, State of Illinois, and City rules, regulations, or other requirements, as each may apply.*

**27. Awards:**

- a. *Unless otherwise stated in the Request for Proposal, cash discounts for prompt payment of invoices will not be considered in the evaluation of prices. However, such discounts are encouraged to motivate prompt payment.*

- b. *As the best interest of the City may require, the right is reserved to make awards by item, group of items, all or none, or a combination thereof; to reject any and all Bids or waive any minor irregularity or technicality in Bids received.*
  - c. *Awards will be made to the Bidder whose Bid (1) meets the specifications and all other requirements of the Request for Proposal and (2) is the lowest and best Bid, considering price, delivery, responsibility of the bidder, and all other relevant factors.*
28. **Termination of Award:** *Any failure of the bidder to satisfy the requirements of the City shall be reason for termination of the award. Any Bid may be rejected in whole or in part for good cause when in the best interest of the City.*
29. **Budgetary Constraints:** *The City reserves the right to reduce or increase the quantity, retract any item from the Bid, or upon notification, terminate entire agreement without any obligations or penalty based upon availability of funds.*
30. **Insurance:** *The city shall require all contractors performing public works projects or performing work on city property in connection with a contract or purchase order, to maintain insurance of the types and with limits of liability not less than those set out below at the contractor's expense during the term (including the warranty period) of the purchase order from insurers reasonably acceptable to the city covering items, risks and operations required to fulfill the contract or purchase order.*
- a. *Such policies shall name the City of Troy and Oates Associates as an additional named insured with limits of liability.*
    - i. **Workers' compensation:** *Insurance that the contractor is obliged by law to carry that covers all of contractor's employees performing work under this purchase order ("worker compensation").*
    - ii. **Employer's liability insurance:** *Employer's liability insurance with a minimum limit of \$1,000,000 per occurrence/\$2,000,000 aggregate. Such insurance shall protect the city as an alternate employer against claims asserted against the contractor by the contractor's workers as "borrowed servants," statutory employees or maritime employees ("employer' liability").*
    - iii. **Commercial or comprehensive general liability insurance:** *Commercial or comprehensive general liability insurance, including contractual liability coverage, with a minimum limit of \$2,000,000 per occurrence/\$5,000,000 aggregate.*
    - iv. **Automobile liability insurance:** *Automobile liability insurance with a combined bodily injury and property damage minimum limit of \$1,000,000 per occurrence/\$2,000,000 aggregate, for all owned and leased vehicles.*
  - b. *Builders Risk Insurance for contracts involving unoccupied structures. The Contractor shall secure All Risk Builder's Risk Insurance. Unless specifically authorized by the City, the amount of such insurance shall not be less than the total contract price. The policy shall name as insured the Contractor and the City of Troy.*
  - c. *Subcontracts: in case any or all of this work is sublet, the contractor shall require the subcontractor to procure and maintain all insurance required in subparagraphs (a) and (b) hereof and in like amounts. The contractor shall require any and all subcontractors with whom it enters a contract to perform work on this project to protect the City of Troy through insurance against applicable hazards or risks and shall, upon request from the City, provide evidence of such insurance.*
31. **Requirement for Bid Security:** *Bid Security shall be required for all formal Bids, requiring City Council approval, as set forth in the City of Troy's Purchasing Policy, for the purchase of Capital Improvement items, and City projects entailing engineering or construction. Bid security shall be a bond provided by a surety company authorized to do business in the State of Illinois, or the equivalent in cash, cashier's check*

or otherwise supplied in a form satisfactory to the City of Troy in an amount equal to 10% of the total amount of the bid. Failure to provide security, as set forth shall result in the City's rejection of bid.

32. **Withdrawal of Bids:** After the bids are opened, they shall be irrevocable for the period of up to sixty (60) days from bid opening date. If a bidder is permitted to withdraw its bid before the opening of bids, no action shall be taken against the bidder or the bid security.
33. **Correction or Withdrawal of Bids:** Correction or withdrawal of inadvertently erroneous bids after bid opening, or cancellations of awards or contracts based on such bid mistakes shall not be permitted and shall mandate forfeiture of Bid Performance Security to the City of Troy.
34. **Return of Bid Security:** The City shall return the security bond to bidders who do not receive the bid. The City shall hold the security bid bond of the awarded bidder until Capital Improvement Project is delivered to the City of Troy or a 100% percent performance bond is issued to the City for awarded contractual services or project construction.
35. **CONTRACT PERFORMANCE AND BOND PAYMENT:** When a bid is awarded for contractual services or construction, a bond shall be delivered to the City of Troy and shall become binding on the parties upon the execution of the contract; such bond shall be a performance labor and materials bond satisfactory to the City of Troy, executed by a surety company authorized to do business in the State of Illinois or otherwise secured in a manner satisfactory to the City of Troy, in the amount equal to one hundred percent (100%) of the price specified in the contract. The requirement may be modified upon recommendation of the City Administration, City Council and approved by the City Attorney.
36. **CONTRACT TERM:** The term of this contract shall be for the duration and completion of this project.
37. **COMPLETION TIME:** The Contractor will be required to commence work under this contract within **Ten (10)** calendar days after the date of receipt by him of the Notice to proceed, to prosecute said work diligently and to complete the work by **May 30, 2023**. The Contractor is required to provide a sufficient work force and construction management so that no time extension will be granted for delay of contract award, weather conditions, utility conflicts, excavation encountering rock, changing excavation quantities, or Contractor scheduling of equipment or construction progress. The Contractor shall have a superintendent or a responsible foreman on the project at all times when construction is in progress. Any claim for extension of time shall be made in accordance with the City of Troy General Conditions and Technical Specifications.
38. The project is not considered completed until final acceptance by the City of Troy.

**SPECIAL PROVISIONS**

**ORCHARD COURT PAVEMENT RECONSTRUCTION – PHASE 2  
TROY, ILLINOIS**

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## **SPECIAL PROVISIONS**

### **ORCHARD COURT PAVEMENT RECONSTRUCTION – PHASE 2 TROY, ILLINOIS**

The following Special Provisions supplement the "Standard Specifications for Road and Bridge Construction", Adopted January 1, 2022, the latest edition of the "Manual on Uniform Traffic Control Devices for Streets and Highways" and the "Manual of Test Procedures of Materials" in effect on the date of the invitation for bids, and the Supplemental Specifications and Recurring Special Provisions indicated on the Check Sheet included herein which apply to and govern the construction of Lions Drive Reconstruction, Troy, Illinois. and in case of conflict with any part, or parts, of said Specifications, the said Special Provisions shall take precedence and shall govern.

#### **DESCRIPTION OF WORK**

The proposed reconstruction project is located on Orchard Court from an existing patch near 349 Orchard Court to an existing patch on the west side of Orchard Court near 337 Orchard Court Troy, Illinois. The project length is 235 feet (0.045 miles).

The work on this project consists of removals, earthwork, aggregate base, reinforced portland cement concrete pavement, driveway pavement, integral v-gutter, and seeding and all incidental and collateral work necessary to complete the work in the above-described Section according to the plans, specifications, and special provisions.

#### **SAFETY AND HEALTH**

The Contractor shall be responsible for enforcing all O.S.H.A. Safety and Health Standards pertaining to the construction industry as established by the United States Department of Labor, Occupational Safety and Health Administration. Such standards include, but are not limited to, 29 CFR 1910 and 1926.

#### **SAFETY AND PROTECTION**

- A. CONTRACTOR shall be responsible for initiating, maintaining and supervising all safety and precautions and programs in connection with the Work. CONTRACTOR shall take all necessary precautions for the safety of, and shall provide the necessary protection to prevent damage, injury or loss to:
1. All employees on the work and other persons and organizations who may be affected thereby;
  2. All the Work and materials and equipment to be incorporated therein, whether in storage on or off the site; and
  3. Other property at the site adjacent thereto, including trees, shrubs, lawns, walks, pavements, roadways, structures, utilities and underground facilities not designated for removal, relocation or replacement in the course of construction.

CONTRACTOR shall comply with all applicable laws and regulations of any public body having jurisdiction for the safety of persons and property or to protect them from damage, injury or loss; and shall erect and maintain all necessary safeguards for such safety and protection. CONTRACTOR shall notify owners of adjacent property and of underground facilities and utility owners when prosecution of the Work may affect them and shall cooperate with them in the protection, removal, relocation and replacement of their property. All damage, injury or loss to any property referred to in paragraph 2. or 3. caused, directly or indirectly, in whole or in part, by CONTRACTOR, any Subcontractor, Supplier or any other person or organization directly or indirectly

employed by any of them to perform or furnish any of the Work or anyone for whose acts either of them may be liable, shall be remedied by CONTRACTOR (except damage or loss attributable to the fault of Drawings or Specifications or to the acts or omissions of OWNER or ENGINEER or anyone employed by either of them or anyone for acts either of them may be liable, and not attributable, directly or indirectly, in whole or in part, to the fault or negligence of CONTRACTOR). CONTRACTOR's duties and responsibilities for the safety and protection of the Work shall continue until all the Work is completed and ENGINEER has issued a notice to OWNER and CONTRACTOR that the Work is acceptable.

- B. CONTRACTOR shall designate a responsible representative at the site whose duty shall be the prevention of accidents. This person shall be CONTRACTOR's superintendent, unless otherwise designated in writing by CONTRACTOR to OWNER.
- C. In EMERGENCIES affecting the safety or protection of persons or the Work or property at the site or adjacent thereto, CONTRACTOR, without special instructions or authorization from ENGINEER or OWNER, is obligated to act to prevent threatened damage, injury or loss. CONTRACTOR shall give ENGINEER prompt, written notice if CONTRACTOR believes that any significant changes in the Work or variations from the Contract Documents have been caused thereby. If ENGINEER determines that a change in the Contract Documents is required because of the action taken in response to an emergency, a Work Directive Change or Change Order will be issued to document the consequences of the changes or variations.

### **NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES) PERMIT**

An independent IEPA National Pollution Discharge Elimination System (NPDES) storm water permit is not required for this project; however, work shall conform to the City of Troy existing General Storm Water Permit for Small Municipal Separate Storm Sewer Systems (MS4). Erosion control items shall be constructed according to the Plans and the Standard Specifications for Road and Bridge Construction, and the Illinois Urban Manual.

The Plans must be kept on site during working hours. Compliance with this special provision shall be considered as included in the various items of work involved.

### **CONSTRUCTION CONTRACTS**

The successful bidder, as a condition of this contract, must submit evidence that he has conducted a pre-job conference with his Subcontractors and their employees, or the employees' duly recognized representatives and union officials, to determine employee jurisdiction, job assignment and work schedules. This requirement is to promote industrial harmony and to eliminate work stoppages and jurisdictional disputes. The pre-job conference shall be conducted at least 14 calendar days prior to the commencement of any construction.

### **MEASUREMENT AND PAYMENT**

Delete all Articles regarding "Method of Measurement" and "Basis of Payment" in the "Standard Specifications for Road and Bridge Construction".

### **SEQUENCE OF CONSTRUCTION OPERATIONS**

The Contractor shall conduct his work within the approved Sequence of Construction Operations at all times. The work shall be done in a manner that will minimize the inconvenience to local traffic.

The Contractor shall conduct his operations to insure local access to all properties throughout the project limits according to Article 107.09 and Section 701 and 703 of the "Standard Specifications for Road and Bridge Construction". If required,

Type I, Type II or vertical barricades shall be used to channel traffic from the following locations to the adjoining side streets or private entrances. The number required will be determined by the Engineer during construction.

The Contractor will be permitted to close one lane of Orchard Court at a time. However, the lane closures must be approved in advance by the City of Troy Department of Public Works. The Contractor shall notify the adjacent businesses, City of Troy Fire, and Police Departments at least 72 hours prior to enacting any lane closures.

### SUGGESTED SEQUENCE

During construction, the Contractor will be required to maintain access to all properties affected by this work. The contractor shall leave one lane of pavement open to traffic for this purpose.

The Contractor will not be allowed to begin subsequent construction operations until the preceding work is substantially complete. The construction sequence shall be compressed as much as possible to minimize the inconvenience to local traffic.

Unless authorized by the Engineer, the Contractor shall complete the construction in the following suggested sequence:

#### STAGE 1:

Install traffic control, complete removals, earthwork, subbase, driveway pavement, integral v-gutter, and portland cement concrete pavement on the northbound Lane of Orchard Ct.

#### STAGE 2:

Open the northbound lane to traffic and complete removals, earthwork, subbase, driveway pavement, integral v-gutter, and portland cement concrete pavement on the southbound lane of Orchard Ct. Appropriate signage will be required.

#### STAGE 3:

Open the southbound lane to traffic. Perform final clean up and punch list items.

Portland cement concrete sidewalk and sidewalk vertical deflection grinding may occur at any time during Stage 1 and Stage 2. The Contractor may submit an alternate sequence of operations and traffic control plan that would expedite construction and still maintain traffic control. Any and all changes to these plans must be submitted in writing and approved in advance by the Engineer. No additional compensation will be allowed if alternate plans are approved.

### TRAFFIC CONTROL PLAN

Traffic control shall be according to the applicable Sections of the "Standard Specifications for Road and Bridge Construction", the applicable guidelines contained in the "Illinois Manual on Uniform Traffic Control Devices for Streets and Highways", these special provisions, and all special details and Highway Standards contained herein and on the plans.

At the preconstruction meeting, the Contractor shall furnish the name of the individual in his/her direct employ who is responsible for the installation and maintenance of the traffic control for this project. If the actual installation and maintenance are to be accomplished by the Subcontractor, consent shall be requested of the Engineer at the time of the preconstruction meeting according to Article 108.01 of the "Standard Specifications for Road and Bridge Construction". This shall not relieve the Contractor of the foregoing requirement for a responsible individual in his direct employ. The City of Troy will provide the Contractor the name of its representative who will be responsible for the observation of the Traffic Control Plan.

The Contractor shall furnish, erect, maintain and remove all warning signs, flags, barricades and lights according to Article 107.14 and Sections 701 and 703 of the "Standard Specifications for Road and Bridge Construction", the latest edition of the "Manual of Uniform Traffic Control Devices for Construction and Maintenance Operations", the Special Provisions, and/or as directed by the Engineer.

Articles 107.09 and 107.14 and Sections 701 and 703 of the "Standard Specifications for Road and Bridge Construction" and the following Highway Standards relating to traffic control apply to this contract:

701001 701006 701901 701421

In addition, the following special provision(s) will also govern traffic control for this project:

SEQUENCE OF CONSTRUCTION OPERATIONS  
TRAFFIC CONTROL AND PROTECTION, (SPECIAL)

### **PUBLIC NOTICE**

Each Wednesday, the Contractor shall furnish his schedule for the next week's work and shall post signs at least 24 hours in advance of his work on each street requiring a lane closure. Handbill notices approved by the Engineer shall be delivered to each property located within the work zone, at least 24 hours prior to commencing work. Notices shall explain the proposed work and request the resident's forbearance of the inconvenience. All complaints should be directed to the Contractor. Residents may contact the City of Troy if their concerns are not resolved satisfactorily by the Contractor.

This work will not be paid for separately, and the cost shall be considered as included in the contract unit prices bid for the various items of work involved.

### **SEEDING, CLASS SPECIFIED**

This work shall consist of preparing the seed bed, and furnishing, transporting and placing the seed, fertilizer and mulch required to restore all disturbed earth surfaces according to the general requirements and Sections 250 and 251 of the "Standard Specifications for Road and Bridge Construction".

The Contractor shall guarantee a minimum of 95 percent uniform growth over the entire seeded areas(s). Areas sustaining less than 95 percent uniform growth shall be inter-seeded or reseeded, as determined by the Engineer, at no additional cost.

### **PORTLAND CEMENT CONCRETE PAVEMENT, THICKNESS SPECIFIED**

This work shall consist of constructing a Portland cement concrete pavement according to Section 420 of the "Standard Specifications for Road and Bridge Construction," except as modified herein.

All references to Sections or Articles in this specification shall be understood to mean a specified Section or Article of the "Standard Specifications for Road and Bridge Construction".

Article 420.03(b). A formless paver will not be required.

Article 420.03(c). A mechanical concrete spreader will not be required.

Article 420.03(d). A finishing machine will not be required.

Article 420.03(e). A mechanical longitudinal float will not be required.

Article 420.03(f). A concrete finisher float will not be required.

Article 420.03(h). Power driven finishing machines, including vibratory screeds and truss-type vibratory screeds, which are specifically designed for finishing concrete pavement and meet the approval of the Engineer, will be allowed.

Hand held fogging equipment capable of spraying a uniform application of membrane curing compound and maintaining constant pressure meeting the approval of the Engineer, will be allowed.

Article 420.09(a) (1). Revise this Article as follows:

After the concrete has been struck off, it shall be given the required consolidation by the vibratory method or by other means which will obtain a uniform and satisfactory density throughout the pavement. If the vibratory method is used, the vibrating impulses shall be applied directly to the concrete through an apparatus especially designed for this purpose in a manner that the vibratory impulses are transmitted through the concrete mass with sufficient intensity to consolidate it throughout its entire depth and width. Not more than one pass of the vibratory equipment shall be made through the pavement.

Article 420.09(a) (3). Revise the first sentence of this Article to read as follows:

Vibrating screed. An approved vibrating screed may be used to strike off, consolidate and finish pavement.

Article 420.09(b). Longitudinal Float Hand Method will be permitted if approved by the Engineer.

Article 420.09(e). Type B final finish shall be used throughout the project unless directed otherwise by the Engineer.

Article 420.20. Revise the first paragraph of this Article to read as follows:

## **EXPANSION JOINTS**

This work shall consist of constructing expansion joints in concrete driveway pavement and sidewalk according to Articles 423.07 and 424.07 of the "Standard Specifications for Road and Bridge Construction" and Highway Standard 424001 except as modified herein:

Expansion joints required under Article 423.07 and 424.07(b) shall be performed fiber joint filler according to Article 1051.04 of the "Standard Specifications for Road and Bridge Construction" and shall have a perforated tear off wood or plastic strip to provide a uniform 3/4 in. reservoir/channel for the required sealant.

Expansion joints required under Article 424.07(a) shall consist of preformed flexible foam expansion joint filler according to Article 1051.09 of the "Standard Specifications for Road and Bridge Construction" and shall have a pre-scored removable strip to provide a uniform 1/2 in. reservoir/channel for the required sealant.

Expansion joint filler and backer rod materials shall be a non-impregnated type that will not bond with the sealant.

Expansion joints shall be sealed with self-leveling (pour grade), or nonsag (gun) grade urethane sealant. The color of the sealant shall be limestone, unless otherwise approved by the Engineer.

This work will not be paid separately, but shall be included in the contract lump sum of the various concrete items for which the expansion joints are required.

## **TRAFFIC CONTROL AND PROTECTION**

This work shall consist of furnishing, installing, maintaining and removing all traffic control devices for traffic control and protection as shown on Highway Standards 701001, 701006, and 701901 included in the plans, according to the TRAFFIC CONTROL PLAN, according to Section 701 of the "Standard Specifications for Road and Bridge Construction", as directed by the Engineer and as specified herein.

Prior to beginning work on the project, the Contractor shall furnish and install Type III barricades and advance warning signs as shown on the TRAFFIC CONTROL PLAN and as detailed in the applicable Highway Standards. Barricade placement and sign spacing may be adjusted by the Engineer to suit field conditions.

Throughout the construction period, all material piles, equipment, open excavations or other obstructions or hazards to motorists or pedestrians shall be enclosed by fences or protected by barricades and proper lighting. Excavations adjacent to the edge of pavement shall be protected with extended leg barricades with appropriate lights.

Traffic control and protection according to Highway Standard 701006 will be required when workers, vehicles, or equipment encroach onto the lane adjacent to the shoulder, or on the shoulder within 24 in. of the edge of pavement on Lions Drive for daylight operations only.

## **STATUS OF UTILITIES TO BE ADJUSTED**

Minor adjustments of residential service lines may be necessary to accommodate construction. All such adjustments will be made by their respective owners during construction.

Underground facilities, structures and utilities have been plotted from available surveys and records. Their locations must be considered to be approximate only. It is possible there may be others, the existence of which is not presently known or shown. Such information represents only the opinion of the Local Agency and their Engineer as to the location of such utilities and is only included for the convenience of the bidder. The Local Agency and their Engineer assume no responsibility in respect to the sufficiency or the accuracy of the information shown on the plans relative to the location of underground utility facilities.

If any utility adjustment or removal has not been completed when required by the Contractor's operation, the Contractor should notify the Engineer in writing. A request for an extension of time will be considered to the extent the Contractor's operations were affected.

## **HIGHWAY STANDARDS**

701001 701006 701421 701901 420001-10

## **BUREAU OF LOCAL ROADS STANDARDS**

Standard B.L.R 10-8

# City of Troy, IL

## Bid Form

SUBMITTED BY: \_\_\_\_\_

(Company Name)

The pricing information is hereby provided in accordance with the Terms and Conditions of this **Request for Bid**.

Base Bid	Description	Estimated Quantity	Lump Sum Cost
G1	SEEDING CLASS 1A	1 L SUM	
G2	SUBBASE GRANULAR MATERIAL, TYPE A 8"	985 SQ YD	
G3	PCC PAVEMENT, 8"	830 SQ YD	
G4	PAVEMENT REMOVAL	985 SQ YD	
G5	CONCRETE V-GUTTER	470 FT	
G6	PCC SIDEWALK, 4" AND REMOVAL	70 SQ FT	
G7	PCC DRIVEWAY PAVEMENT	50 SQ YD	
G8	GRIND VERT DEFLECTION IN SIDEWALK	4 EACH	
G11	TRAFFIC CONTROL AND PROTECTION	1 L SUM	
G12	CONSTRUCTION LAYOUT	1 L SUM	
G15	MOBILIZATION	1 L SUM	
<b>BASE BID TOTAL</b>			<b>\$</b>
Unit Cost Item	Description	Quantity	Unit Cost
U1	ROADWAY RECONSTRUCTION	N/A*	\$_____/FT

\*Note: Unit cost item should be given in feet and cover the proposed section in the plans and priced accordingly in case the City wants to reduce or extend roadway work beyond the limits of the project. The unit cost for Roadway Reconstruction should include, pavement removal, subbase granular material, type A 8", pcc pavement, 8", and concrete v-gutter. The unit cost will be added or subtracted to the BASE BID amount accordingly based on the amount that was actually constructed in the field.

<b>Onsite Visit Made by: NOT REQUIRED</b>	<b>Date</b>	
<b>Upon notice to proceed, contractor will complete the project in (calendar days)</b>		
<b>Bid Security enclosed: (10% of total bid)</b>		

The quantities reported above and on the previous page shall be verified by the contractor before bidding. The City provides no warranty to their accuracy so the bidder shall consider them for information only when preparing the bid. Work is lump sum based on the work shown on the plans and described in the special provisions.

The City of Troy reserves the right to accept or refuse any or all bids.

**RETURN WITH BID**

**VENDOR REFERENCES:**

The proposal must include the following information:

1. List at least three (3) references for whom you have performed similar products/services for other public entities, local governments, or private companies.

Company Name: \_\_\_\_\_

Address: \_\_\_\_\_

Contact Person: \_\_\_\_\_

Telephone #: (\_\_\_\_\_) \_\_\_\_\_

Company Name: \_\_\_\_\_

Address: \_\_\_\_\_

Contact Person: \_\_\_\_\_

Telephone #: (\_\_\_\_\_) \_\_\_\_\_

Company Name: \_\_\_\_\_

Address: \_\_\_\_\_

Contact Person: \_\_\_\_\_

Telephone #: (\_\_\_\_\_) \_\_\_\_\_

2. State how long you have been operating under your present company name?

\_\_\_\_\_

3. Have you ever defaulted on a contract? \_\_\_\_\_

4. If so, where and why? \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

**RETURN WITH BID**

**Affidavit of Compliance**  
**Orchard Court Reconstruction – Phase 2**

To be submitted with Vendor’s proposal.

\_\_\_\_\_ We DO NOT take exception to the RFP documents/Requirements.

\_\_\_\_\_ We TAKE exception to the RFP Documents/Requirements as follows:

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I have carefully examined the Request for Proposal and agree to abide by all submitted pricing, delivery, terms and conditions of this Quotation unless otherwise stipulated herein.

Company Name: \_\_\_\_\_

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

(Authorized person’s signature)

(Print name and title of signer)

Company Address: \_\_\_\_\_

Telephone Number: \_\_\_\_\_

Federal Tax ID No.: \_\_\_\_\_

**ADDENDA**

Bidder Acknowledges receipt of the following addendum:

Addendum No. \_\_\_\_\_

Addendum No. \_\_\_\_\_

Addendum No. \_\_\_\_\_

**RETURN WITH BID**

**City of Troy “No-Bid Response Form”**  
**Orchard Court Pavement Reconstruction – Phase 2**

**COMPLETE AND RETURN THIS FORM ONLY IF YOU DO NOT WANT TO SUBMIT A PROPOSAL RESPONSE.**

If you do not wish to respond to this proposal request, but would like to remain on the City of Troy vendor list, please complete this form and return to the City Engineer by email.

**RETURN TO:** Tom Cissell, City Engineer  
Email: [tom.cissell@oatesassociates.com](mailto:tom.cissell@oatesassociates.com)

We the undersigned have declined to bid on your proposal for the following reasons:

- \_\_\_\_\_ Insufficient time to respond to invitation for bid.
- \_\_\_\_\_ We do not offer this product/s or equivalent.
- \_\_\_\_\_ Unable to meet specifications.
- \_\_\_\_\_ Unable to meet insurance requirements.
- \_\_\_\_\_ Our schedule would not allow us to perform.
- \_\_\_\_\_ Specifications are too “tight”, i.e. geared towards one brand or manufacturer.
- \_\_\_\_\_ Specifications unclear.
- \_\_\_\_\_ Other (please specify below).

Comments:

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**VENDOR INFORMATION:**

Company Name: \_\_\_\_\_

Signature and Title: \_\_\_\_\_

Phone #: \_\_\_\_\_

Email: \_\_\_\_\_

**RETURN WITH BID**

# ORCHARD COURT PAVEMENT RECONSTRUCTION - PHASE 2

**CITY OF TROY**  
**116 E. MARKET STREET**  
**TROY, IL 62294**

## INDEX OF DRAWINGS

G1.0.....COVER SHEET  
 C0.1.....GENERAL NOTES, SYMBOLS, & ABBREVIATIONS  
 C1.1.....ORCHARD COURT PAVEMENT RECONSTRUCTION PLAN  
 C2.1.....SITE PLAN DETAILS  
 C2.2.....PCC PAVEMENT DETAILS  
 C2.3.....PCC PAVEMENT DETAILS

### ENGINEERS



100 Lanter Court, Suite 1  
 Collinsville, IL 62234  
 618.345.2200  
 www.oatesassociates.com

Collinsville St. Louis Belleville St. Charles

ILLINOIS DESIGN FIRM LICENSE NO.: 184.001115

PROJECT MANAGEMENT & CIVIL ENGINEER:

**OATES ASSOCIATES, INC.**  
 EASTPORT BUSINESS CENTER 1  
 100 LANTER COURT, SUITE 1  
 COLLINSVILLE, ILLINOIS 62234

CONTACT: TOM CISSELL, PE  
 PROJECT MANAGER  
 618.345.2200  
 Tom.Cisell@oatesassociates.com

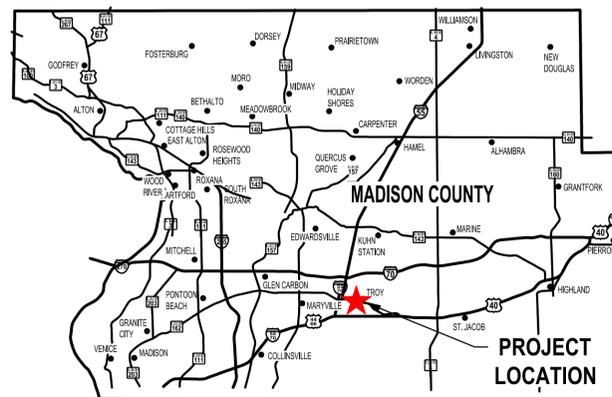
OWNER:

**THE CITY OF TROY**  
 116 EAST MARKET STREET  
 TROY, ILLINOIS 62294

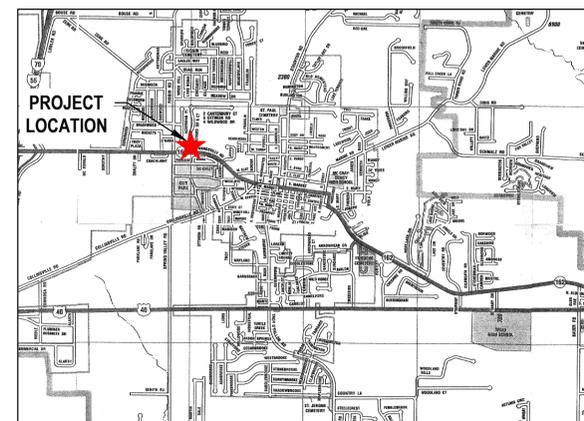
CONTACT: JAY KEEVAN  
 CITY ADMINISTRATOR  
 618.667.9924  
 jkeevan@troyl.us



### VICINITY MAP



### LOCATION MAP



### AERIAL MAP



### ABBREVIATIONS

AD ALGEBRAIC DIFFERENCE IN GRADE	DIA DIAMETER
ADJ ADJACENT	DND DO NOT DISTURB
AGG AGGREGATE	DS DOWN SPOUT
AI AREA INLET	DTL DETAIL
ALT ALTERNATE	E EAST
BC BACK OF CURB	EA EACH
BIT BITUMINOUS	EJ EXPANSION JOINT
BLDG BUILDING	EL ELEVATION
BLRD BOLLARD	ELEC ELECTRIC
BM BENCHMARK	ENGR ENGINEER
BO BY OTHERS (USED IN CONJUNCTION WITH TBA & TBR)	EOP EDGE OF PAVEMENT
BVCE BEGINNING OF VERTICAL CURVE ELEVATION	EQ EQUAL
BVCS BEGINNING OF VERTICAL CURVE STATION	ESMT EASEMENT
BW BOTTOM OF WALL	ETR EXISTING TO REMAIN
CATV CABLE TELEVISION	EVCE END OF VERTICAL CURVE ELEVATION
CB CATCH BASIN	EVCS END OF VERTICAL CURVE STATION
CI CURB INLET	EX EXISTING
CJ CONTROL JOINT	EXP EXPANSION
CL CENTERLINE	FES FLARED END SECTION
CLF CHAIN LINK FENCE	FF FINISHED FLOOR
CMP CORRUGATED METAL PIPE	FL FLOW LINE
CMU CONCRETE MASONRY BLOCK	FO FIBER OPTIC
CO CLEANOUT	FT FEET
COM COMMUNICATIONS	FV FIELD VERIFY
CONC CONCRETE	GI GRATE INLET
CONST CONSTRUCTION	GND GROUND
CP CONTROL POINT	HDPE HIGH DENSITY POLYETHYLENE
CTR CENTER	HMA HOT-MIX-ASPHALT
CY CUBIC YARD	HT HEIGHT
	HVAC HEATING/ VENTILATION/AIR CONDITIONING
	ID INSIDE DIAMETER

IN INCHES	S SOUTH
INV INVERT	SAN SANITARY
JB JUNCTION BOX	SEW SEWER
K LENGTH OF VERTICAL CURVE PER PERCENT GRADE DIFFERENCE	SF SQUARE FEET
LF LINEAR FEET	SHT SHEET
MAT MATERIAL	STA STATION
MAX MAXIMUM	STD STANDARD
M.E. MATCH EXISTING	STM STORM
MECH MECHANICAL	SY SQUARE YARD
MH MANHOLE	TBA TO BE ADJUSTED
MIN MINIMUM	TBR TO BE REMOVED
MISC MISCELLANEOUS	TBRL TO BE RELOCATED
N NORTH	TBV TO BE VACATED
NF NOW OR FORMERLY	TCE TEMPORARY CONSTRUCTION EASEMENT
NIC NOT IN CONTRACT	TEL TELEPHONE
NO NUMBER	THK THICK
NTS NOT TO SCALE	TUP TEMPORARY USE PERMIT
O/C OIL AND CHIP	TW TOP OF WALL
OC ON CENTER	TYP TYPICAL
OD OUTSIDE DIAMETER	UIP USE IN PLACE
PCC PORTLAND CEMENT CONCRETE	UTIL UTILITIES
PERM PERMANENT	VCP VITRIFIED CLAY PIPE
PL PROPERTY LINE	W WIDTH OR WEST
PVC POLYVINYL CHLORIDE PIPE	W/ WITH
PVI POINT OF VERTICAL INTERSECTION	WO/ WITHOUT
PVMT PAVEMENT	WR WATER RESISTANT
QTY QUANTITY	WT WEIGHT
R RADIUS	WTR WATER
RCP REINFORCED CONCRETE PIPE	WWF WELDED WIRE FABRIC
RD ROOF DRAIN	YD YARD DRAIN
ROW RIGHT OF WAY	YL YARD LIGHT

### LEGEND

EX	NEW	EX	NEW

### SYMBOLS LEGEND

	DETAIL REFERENCE
	SECTION REFERENCE
	EXISTING PAVEMENT ELEVATION

### LINE TYPES

EX	NEW

### GENERAL NOTES

- ALL SITE WORK SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF THE ILLINOIS DEPARTMENT OF TRANSPORTATION'S, "STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION (SSFRBC)" AND HIGHWAY STANDARDS", IN SO FAR THAT THEY APPLY, EXCEPT THAT ALL REFERENCES TO MEASUREMENT AND PAYMENT SHALL BE DELETED.
- THE GENERAL CONTRACTOR SHALL PROTECT AND CAREFULLY PRESERVE ALL PROPERTY MARKERS, MONUMENTS, SIGNS, EXISTING PAVEMENT, EXISTING CURB, AND EXISTING TREES FROM DAMAGE. IF ANY FEATURE IS TO REMAIN AND IS DAMAGED, IT WILL BE REPAIRED OR REPLACED BY THE GENERAL CONTRACTOR AT HIS/HER OWN EXPENSE AS DIRECTED BY THE ENGINEER.
- FULL DEPTH SAW CUTTING ON ALL EDGES FOR REMOVAL ITEMS SHALL BE INCLUDED IN THE LUMP SUM CONTRACT COST ACCORDING TO SECTION 440 OF THE "STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION."
- THE GENERAL CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CONDITIONS IN THE FIELD PRIOR TO ORDERING MATERIALS AND COMMENCING CONSTRUCTION.
- THE GENERAL CONTRACTOR SHALL CONFINE ALL OPERATIONS TO THE IMMEDIATE AREA AS SHOWN ON THE PLANS. ALL DISTURBED AREAS SHALL BE RESTORED TO ORIGINAL CONDITION AT THE GENERAL CONTRACTOR'S EXPENSE.
- THE GENERAL CONTRACTOR SHALL FERTILIZE, SEED, AND MULCH ALL EARTH SURFACES DISTURBED BY CONSTRUCTION WITH CLASS 1A SEEDING.
- THE GENERAL CONTRACTOR SHALL PROVIDE THE NECESSARY SIGNS AND BARRICADES WHILE WORKING THROUGHOUT THE CONSTRUCTION PERIOD. ALL MATERIAL PILES, EQUIPMENT, OR OTHER OBSTRUCTIONS OR HAZARDS TO MOTORISTS OR PEDESTRIANS SHALL BE ENCLOSED BY FENCES OR PROTECTED BY BARRICADES. ALL OPEN EXCAVATIONS SHALL BE ENCLOSED BY ORANGE SNOW FENCE OR SURROUNDED BY BARRICADES.
- THE GENERAL CONTRACTOR SHALL PROVIDE A PORTABLE RESTROOM FACILITY AT A PRE-APPROVED LOCATION.
- THE GENERAL CONTRACTOR SHALL PROVIDE ALL LAYOUT AND MATERIAL TESTING NECESSARY TO COMPLETE THE PROJECT ACCORDING TO THE PLANS.
- FINAL PAYMENT ON RETAINAGE WILL NOT BE MADE UNTIL THE INCIDENTAL SEEDING AREAS HAVE 95% GROWTH ESTABLISHED WITH NO INDIVIDUAL BARE SPOTS LARGER THAN 6" x 6" IN SIZE AFTER ONE GROWING SEASON.
- ALL EXISTING FEATURES SUCH AS PAVEMENT, CURB, SIDEWALK, DRIVEWAY PAVEMENT, CULVERTS, HEADWALLS, RIPRAP, FENCING, ETC. WHICH INTERFERE WITH THE PROPOSED CONSTRUCTION SHALL BE REMOVED BY THE GENERAL CONTRACTOR UNLESS NOTED OTHERWISE ON THE PLANS EXCEPT FOR THOSE CONSIDERED UNFORESEEN, THE COST TO REMOVE EXISTING FEATURES REQUIRED TO CONSTRUCT THE PROJECT SHALL BE INCLUDED IN THE LUMP SUM COST BID FOR THE PROJECT.
- ALL REMOVAL ITEMS SHALL BE PROPERLY DISPOSED OF OFF-SITE.
- ANY UNSUITABLE MATERIAL ENCOUNTERED DURING CONSTRUCTION SHALL BE REMOVED BY THE GENERAL CONTRACTOR AND REPLACED WITH SUITABLE MATERIAL AS APPROVED BY THE ENGINEER. THE COST TO REMOVE AND REPLACE UNSUITABLE MATERIAL WILL BE CONSIDERED AN UNFORESEEN CONDITION AND WILL BE PAID FOR AS AN AGREED PRICE OR ON A TIME AND MATERIAL BASIS.
- CONSTRUCTION EQUIPMENT AND MATERIALS SHALL BE STORED ON THE PROPOSED CONSTRUCTION SITE AND NOT ON ANY PUBLIC STREET OR RIGHT OF WAY OUTSIDE THE DESIGNATED CONSTRUCTION ZONE UNLESS AUTHORIZED BY THE CITY ENGINEER.
- GENERAL CONTRACTOR SHALL STAGE ALL WORK IN SUCH A WAY AS TO MAINTAIN INGRESS AND EGRESS TO ONE LANE OF TRAFFIC AT ALL TIMES DURING CONSTRUCTION. IF COMPLETE SHUT DOWN OF THE ROAD IS NEEDED, THE CONTRACTOR SHALL COORDINATE THIS WORK WITH THE CITY OF TROY 5 WORKING DAYS IN ADVANCE. AGGREGATE FOR TEMPORARY ACCESS MAY BE USED TO MAINTAIN ACCESS. THE COST OF ALL OTHER MATERIALS REQUIRED AND ALL OTHER LABOR NECESSARY TO COMPLY WITH THIS PROVISION WILL NOT BE PAID FOR SEPARATELY, BUT SHALL BE CONSIDERED AS INCLUDED IN THE LUMP SUM COST OF THE CONTRACT.
- THE GENERAL CONTRACTOR SHALL PROVIDE AND MAINTAIN SILTATION CONTROL, AS NEEDED, TO PREVENT SILTATION IN THE EXISTING STORM SEWERS UNTIL NEW PAVEMENT CAN BE INSTALLED - AT WHICH TIME HE/SHE WILL BE RESPONSIBLE FOR REMOVING TEMPORARY SILTATION CONTROL METHODS.
- THE GENERAL CONTRACTOR SHALL PROTECT THE EXISTING PAVEMENT AND UTILITIES TO REMAIN WITHIN THE CONSTRUCTION LIMITS, TO THE SATISFACTION OF THE OWNER.
- THE CONTRACTOR SHALL REMOVE, MAINTAIN IN A TEMPORARY LOCATION AND PERMANENTLY RESET ALL MAILBOXES, TRAFFIC SIGNS, STREET NAME SIGNS AND ALL PRIVATE AND COMMERCIAL SIGNS WHICH INTERFERE WITH CONSTRUCTION OPERATIONS ACCORDING TO ARTICLES 107.20 AND 107.25 OF THE "STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION" AND AS DIRECTED BY THE ENGINEER. THE COST OF THIS WORK WILL NOT BE PAID FOR SEPARATELY, BUT SHALL BE CONSIDERED AS INCLUDED IN THE CONTRACT UNIT PRICES FOR THE VARIOUS ITEMS OF THE WORK INVOLVED.

### UTILITY CONTACTS

THE FOLLOWING UTILITY COMPANIES MAY HAVE FACILITIES LOCATED WITHIN THE LIMITS OF CONSTRUCTION THAT MAY REQUIRE ADJUSTMENT, RELOCATION OR REMOVAL. ALL ARE MEMBERS OF J.U.L.I.E., UNLESS NOTED OTHERWISE.

AT&T (TELEPHONE) 203 GOETHE STREET COLLINSVILLE, IL 62234 (618) 346-6400	CITY OF TROY (WATER & SANITARY SEWER) 116 EAST MARKET STREET TROY, IL 622294 (618) 667-9924	CHARTER COMMUNICATIONS (CABLE TV) 210 WEST DIVISION STREET MARYVILLE, IL 62062 (636) 387-6650	AMEREN IP (GAS & ELECTRIC) 2600 NORTH CENTER MARYVILLE, IL 62062 (618) 346-1287
---	--	--	--

\*NON-J.U.L.I.E. MEMBER: THE ILLINOIS DEPARTMENT OF TRANSPORTATION IS NOT A J.U.L.I.E. MEMBER. COSTS TO LOCATE THEIR FACILITIES WILL BE BY THE CONTRACTOR AND INCLUDED IN THE CONTRACT LUMP SUM COST.

THE ABOVE INFORMATION REPRESENTS THE BEST INFORMATION AVAILABLE TO THE OWNER AND IS ONLY INCLUDED FOR THE CONVENIENCE OF THE BIDDER. IT IS UNDERSTOOD AND AGREED THAT THE CONTRACTOR HAS TAKEN THE FOREGOING INTO CONSIDERATION IN PREPARING HIS/HER BID, AND NO ADDITIONAL COMPENSATION WILL BE ALLOWED FOR ANY DELAYS OR INCONVENIENCE CAUSED BY SAME.

UNDERGROUND FACILITIES, STRUCTURES AND UTILITIES HAVE BEEN PLOTTED FROM AVAILABLE SURVEYS AND RECORDS. THEIR LOCATIONS MUST BE CONSIDERED TO BE APPROXIMATE ONLY. IT IS POSSIBLE THERE MAY BE OTHERS, THE EXISTENCE OF WHICH IS NOT PRESENTLY KNOWN OR SHOWN. IT IS THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE THEIR EXISTENCE AND EXACT LOCATION AND TO AVOID DAMAGE THERETO. ILLINOIS LAW REQUIRES A MINIMUM 48-HOUR NOTICE TO ALL UTILITY COMPANIES BEFORE DIGGING. FIELD LOCATIONS OF UNDERGROUND FACILITIES MAY BE OBTAINED BY CALLING THE J.U.L.I.E. SYSTEM AT 800-892-0123 AND PROVIDING 48 HOURS ADVANCE NOTICE. NON-J.U.L.I.E. MEMBERS MAY BE CONTACTED DIRECT. AGENCIES KNOWN TO HAVE FACILITIES WITHIN THE PROJECT LIMITS ARE LISTED BELOW.

ANY FACILITIES OR APPURTENANCES WHICH ARE THE PROPERTY OF ANY PUBLIC UTILITY LOCATED WITHIN THE LIMITS OF CONSTRUCTION SHOULD BE RELOCATED OR ADJUSTED BY THEIR RESPECTIVE OWNERS. THE CONTRACTOR SHALL NOTIFY AND COOPERATE WITH THE OWNERS OF ANY SUCH FACILITY IN THEIR REMOVAL AND REARRANGEMENT OPERATIONS IN ORDER THAT THESE OPERATIONS AND THE CONSTRUCTION OF THIS PROJECT MAY PROGRESS IN A REASONABLE MANNER. ALL ROADSIDE OBJECTS (UTILITY POLES, FIRE HYDRANTS, SIGNS, ETC.) SHALL BE RELOCATED TO PROVIDE A MINIMUM OF 2 FEET CLEARANCE, MEASURED FROM THE FACE OF CURB TO THE NEAR EDGE OF THE OBJECT. THE COST OF ANY NECESSARY RELOCATIONS MAY BE INCURRED BY THE OWNER IF OTHER ARRANGEMENTS CANNOT BE MADE OR PRIOR AGREEMENTS ARE NOT IN PLACE

JOINT UTILITY LOCATING INFORMATION FOR EXCAVATIONS  
PHONE: 800-892-0123

# 03/10/2023 - BID DOCUMENTS

REVISIONS:

NO.	DATE	REMARKS

100 Lanter Court, Suite 1  
Collinsville, IL 62234  
618.345.2200

www.oatesassociates.com  
Collinsville St. Louis Belleville St. Charles  
ILLINOIS DESIGN FIRM LICENSE NO. 184-00115



THE CITY OF TROY  
ILLINOIS  
ORCHARD COURT  
PAVEMENT RECONSTRUCTION  
PHASE 2  
GENERAL NOTES, SYMBOLS, AND ABBREVIATIONS

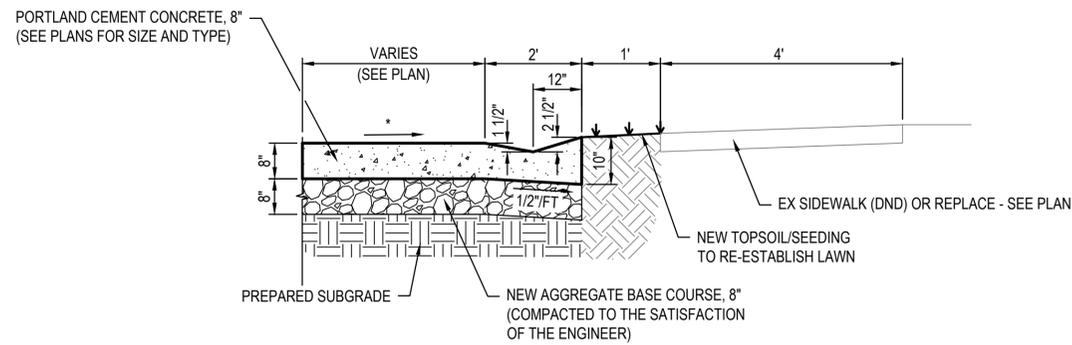


PROJECT NO.:  
15062.003  
DATE:  
03/10/23  
SHEET NO.:

# C0.1

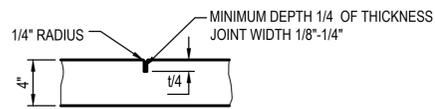


H:\P15062\WO 3 - (04 - PROFESSIONAL SERVICES - STREET AND DRAINAGE (CITY ENGINEER)\ORCHARD COURT - PHASE 2\DWG\15062.003 ORCHARD DESIGN.DWG - 3/10/2023



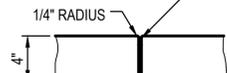
**SECTION A-A**  
(NOT TO SCALE)

**1 PCC PAVEMENT AND INTEGRAL V-GUTTER DETAIL**  
C2.1 SCALE: NO SCALE



**CONTRACTION JOINT**

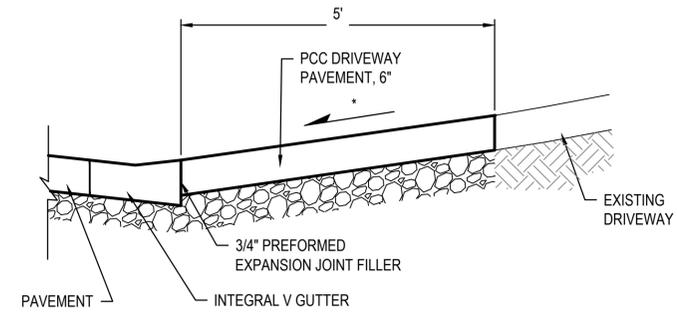
BACK JOINT WITH ONE COMPONENT URETHANE GUN GRADE SEALANT USING SONNEBORN SONOPLASTIC NP-1, MAMECO VULKEM 116, PECORDA DYNATROL 1, OR APPROVED EQUAL. FINISH JOINT WITH A SELF LEVELING SEALANT USING MAMECO INTERNATIONAL - VULKEM 45, PECORA CHEMICAL CORP - UREXPAN NR20, SIKA CHEMICAL CORP. - SILKAFLEX 12SL, CONTECH INC., SONNEBORN BUILDING PRODUCTS DIV. - SONALASTIC SL1



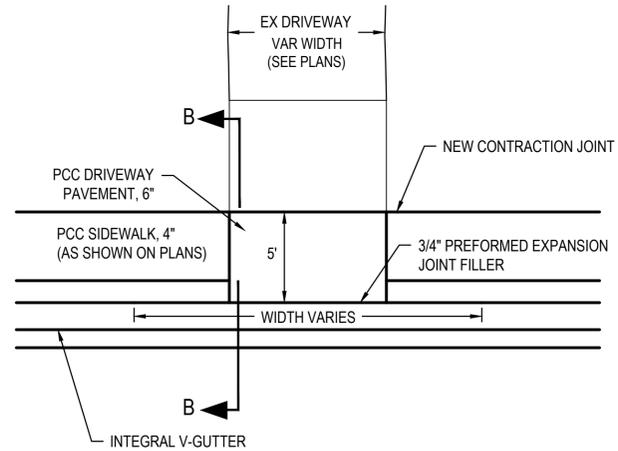
**EXPANSION JOINT**

1/2" PRE-MOLDED WOOD FIBRE STRIP ACCORDING TO ASTM D 1751 WITH 1/4" TO 1/2" ZIP STRIP.

**3 TYPICAL SIDEWALK CONCRETE JOINT DETAILS**  
C2.1 SCALE: NO SCALE

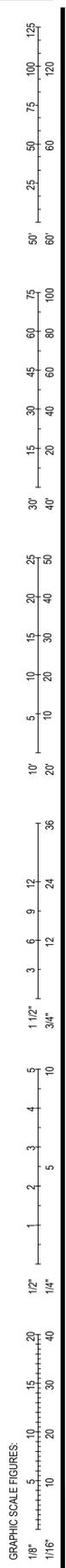


**SECTION B-B**



**3 TYPICAL PRIVATE ENTRANCE DETAIL**  
C2.1 SCALE: NO SCALE

\* MATCH EX SLOPE LINES AND ELEVATIONS (2% MAXIMUM)



NO.	DATE	REMARKS

100 Lanter Court, Suite 1  
Collinsville, IL 62234  
618.345.2200  
www.oatesassociates.com  
Collinsville St. Louis Belleville St. Charles  
ILLINOIS DESIGN FIRM LICENSE NO. 184.00115



**TROY**  
ILLINOIS  
ORCHARD COURT  
PAVEMENT RECONSTRUCTION  
PHASE 2  
SITE PLAN DETAILS

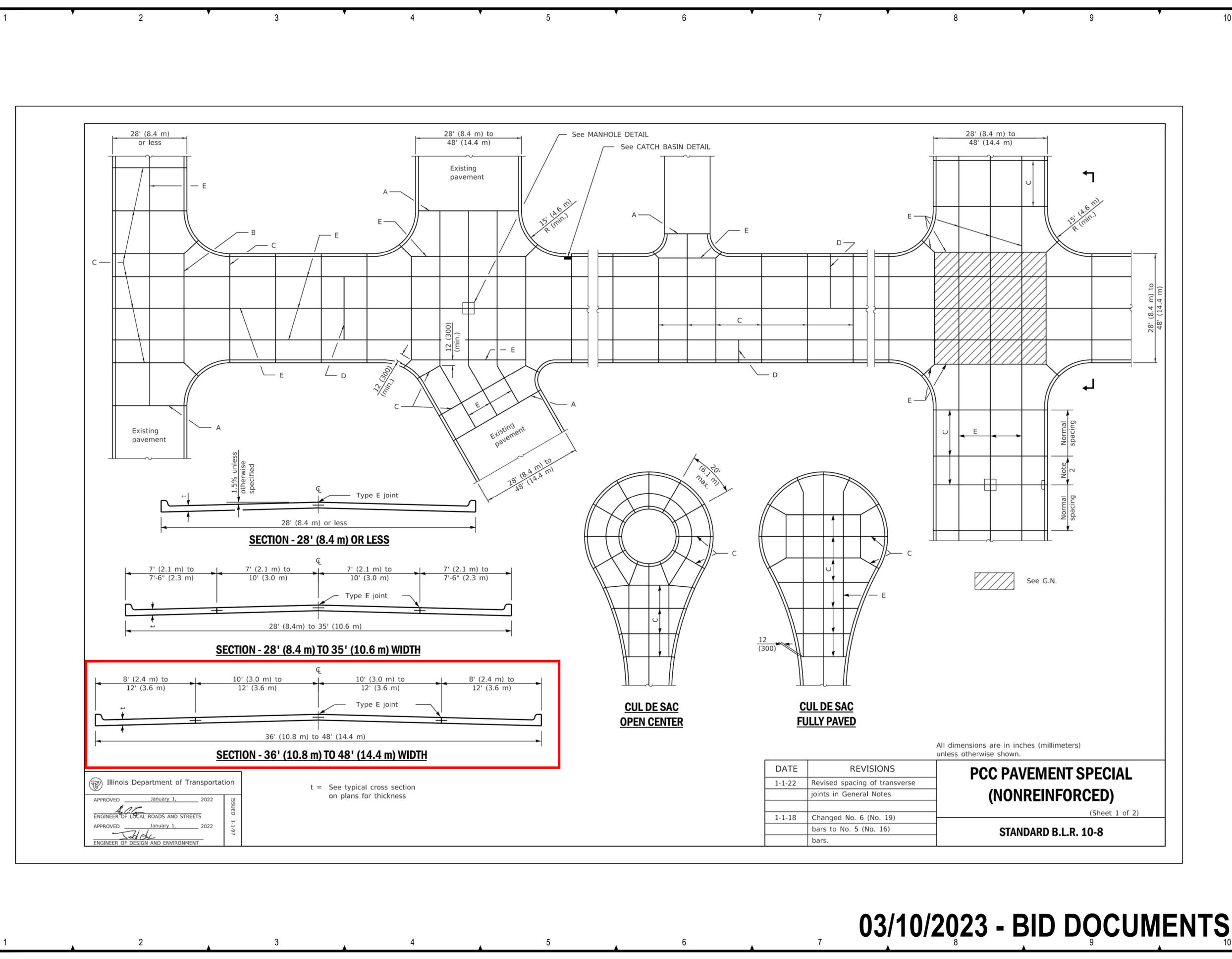


PROJECT NO.:  
15062.003  
DATE:  
03/10/23  
SHEET NO.:

**03/10/2023 - BID DOCUMENTS**

**C2.1**  
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H:\15062\VO 3 - 04 - PROFESSIONAL SERVICES - STREET AND DRAINAGE (CITY ENGINEER)\ORCHARD COURT - PHASE 2\DWG\15062.03 ORCHARD DESIGN.DWG - 3/10/2023



Illinois Department of Transportation  
 APPROVED January 1, 2022  
 ENGINEER OF LOCAL ROADS AND STREETS  
 APPROVED January 1, 2022  
 ENGINEER OF DESIGN AND ENVIRONMENT

t = See typical cross section on plans for thickness

DATE	REVISIONS
1-1-22	Revised spacing of transverse joints in General Notes.
1-1-18	Changed No. 6 (No. 19) bars to No. 5 (No. 16) bars.

**PCC PAVEMENT SPECIAL (NONREINFORCED)**  
 STANDARD B.L.R. 10-8  
 (Sheet 1 of 2)

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

NO.	DATE	REMARKS

100 Lanter Court, Suite 1  
 Collinsville, IL 62234  
 618.345.2200  
 www.oatesassociates.com  
 Collinsville St. Louis Belleville St. Charles  
 ILLINOIS DESIGN FIRM LICENSE NO. 184.00115



The City of TROY  
 ILLINOIS  
 Orchard Court  
 Pavement Reconstruction  
 Phase 2  
 PCC PAVEMENT DETAILS



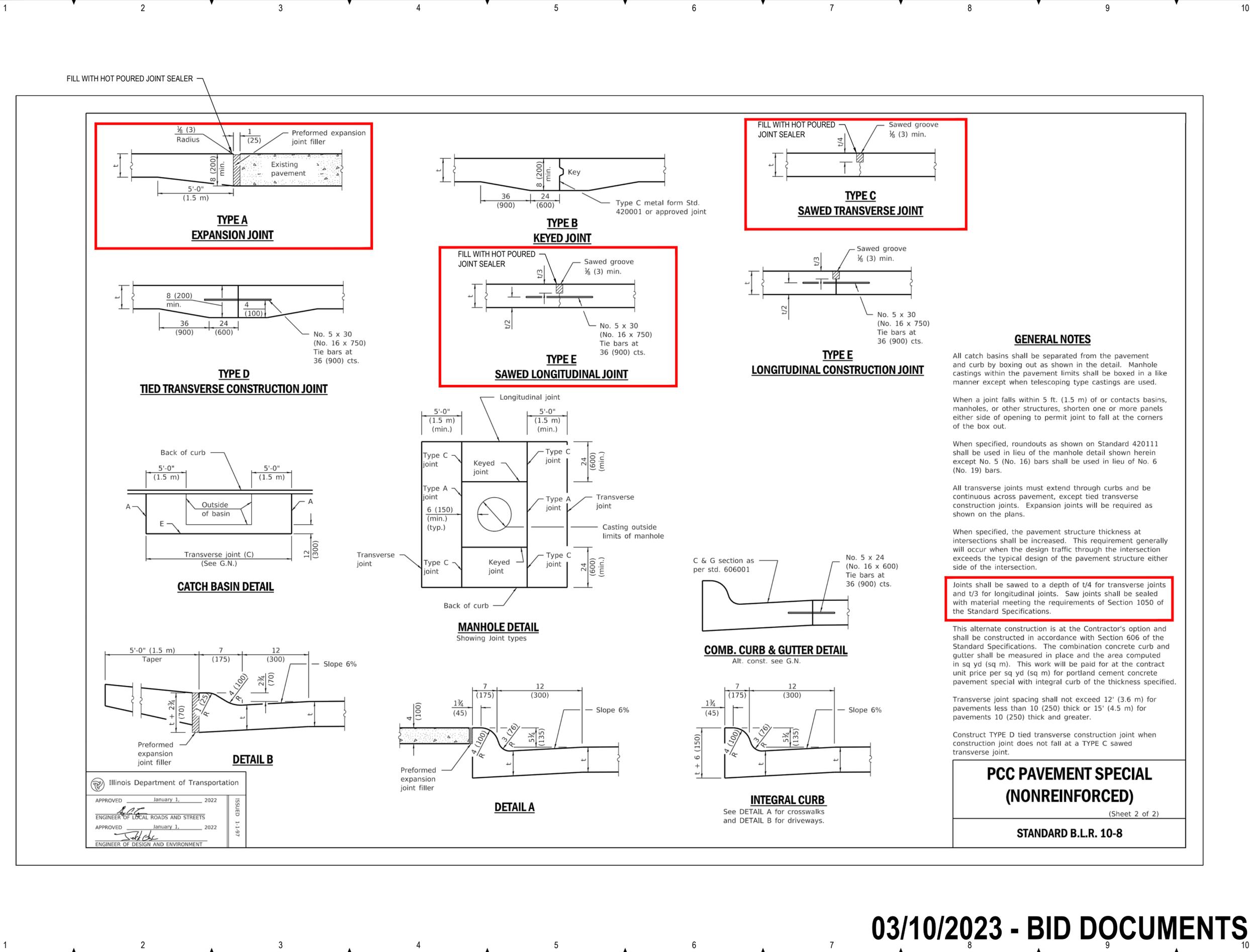
PROJECT NO.: 15062.003  
 DATE: 03/10/23  
 SHEET NO.:

**03/10/2023 - BID DOCUMENTS**

**C2.2**

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H:\15062\15062\03 - (04 - PROFESSIONAL SERVICES - STREET AND DRAINAGE (CITY ENGINEER)\ORCHARD COURT - PHASE 2\DWG15062.03 ORCHARD DESIGN.DWG - 3/10/2023



**GENERAL NOTES**

All catch basins shall be separated from the pavement and curb by boxing out as shown in the detail. Manhole castings within the pavement limits shall be boxed in a like manner except when telescoping type castings are used.

When a joint falls within 5 ft. (1.5 m) of or contacts basins, manholes, or other structures, shorten one or more panels either side of opening to permit joint to fall at the corners of the box out.

When specified, roundouts as shown on Standard 420111 shall be used in lieu of the manhole detail shown herein except No. 5 (No. 16) bars shall be used in lieu of No. 6 (No. 19) bars.

All transverse joints must extend through curbs and be continuous across pavement, except tied transverse construction joints. Expansion joints will be required as shown on the plans.

When specified, the pavement structure thickness at intersections shall be increased. This requirement generally will occur when the design traffic through the intersection exceeds the typical design of the pavement structure either side of the intersection.

Joints shall be sawed to a depth of 1/4 for transverse joints and 1/3 for longitudinal joints. Saw joints shall be sealed with material meeting the requirements of Section 1050 of the Standard Specifications.

This alternate construction is at the Contractor's option and shall be constructed in accordance with Section 606 of the Standard Specifications. The combination concrete curb and gutter shall be measured in place and the area computed in sq yd (sq m). This work will be paid for at the contract unit price per sq yd (sq m) for portland cement concrete pavement special with integral curb of the thickness specified.

Transverse joint spacing shall not exceed 12' (3.6 m) for pavements less than 10 (250) thick or 15' (4.5 m) for pavements 10 (250) thick and greater.

Construct TYPE D tied transverse construction joint when construction joint does not fall at a TYPE C sawed transverse joint.

**PCC PAVEMENT SPECIAL (NONREINFORCED)**  
 (Sheet 2 of 2)  
**STANDARD B.L.R. 10-8**

Illinois Department of Transportation  
 APPROVED January 1, 2022  
 ENGINEER OF LOCAL ROADS AND STREETS  
 APPROVED January 1, 2022  
 ENGINEER OF DESIGN AND ENVIRONMENT



REVISIONS:	NO.:	DATE:	REMARKS:

100 Lanter Court, Suite 1  
 Collinsville, IL 62234  
 618.345.2200  
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 Collinsville St. Louis Belleville St. Charles  
 ILLINOIS DESIGN FIRM LICENSE NO. 184-00115

**OATES ASSOCIATES**

**TROY**  
 ILLINOIS  
 Orchard Court  
 Pavement Reconstruction  
 Phase 2  
 PCC PAVEMENT DETAILS

THOMAS LEE CISSEL  
 062-09601  
 LICENSED PROFESSIONAL ENGINEER  
 STATE OF ILLINOIS

PROJECT NO.: 15062.003  
 DATE: 03/10/23  
 SHEET NO.:

**03/10/2023 - BID DOCUMENTS**

**C2.3**  
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**TYPICAL APPLICATIONS**

- Landscaping work
- Utility work
- Fencing contracts and maintenance
- Cleaning culverts

**GENERAL NOTES**

This Standard is used where at all times all vehicles, equipment, workers or their activities are more than 15' (4.5 m) from the edge of pavement.

When the work operation requires that two or more work vehicles cross the 15' (4.5 m) clear zone in any one hour, traffic control shall be according to Standard 701006.

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

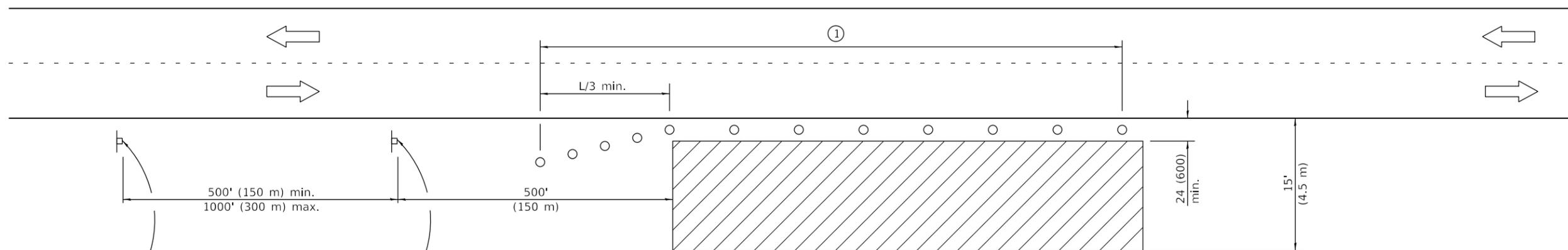
DATE	REVISIONS
1-1-09	Switched units to English (metric).
1-1-05	Revised title and notes.

**OFF-RD OPERATIONS,  
2L, 2W, MORE THAN  
15' (4.5 m) AWAY**

**STANDARD 701001-02**

Illinois Department of Transportation  
 PASSED January 1, 2009  
 ENGINEER OF OPERATIONS  
 APPROVED January 1, 2009  
 ENGINEER OF DESIGN AND ENVIRONMENT

ISSUED 1-1-97



For contract construction projects

**ROAD CONSTRUCTION AHEAD**

W20-1103(0)-48

**ROAD WORK AHEAD**

W21-1(0)-48

For maintenance and utility projects

**ROAD WORK AHEAD**

W20-1(0)-48

**TYPICAL APPLICATIONS**

- Utility operations
- Culvert extensions
- Side slope changes
- Guardrail installation and maintenance
- Delineator installation
- Landscaping operations
- Shoulder repair
- Sign installation and maintenance

**SYMBOLS**

-  Work area
-  Sign
-  Cone, drum or barricade

① When the work operation exceeds one hour, cones, drums or barricades shall be placed at 25' (8 m) centers for L/3 distance, and at 50' (15 m) centers through the remainder of the work area.

**GENERAL NOTES**

This Standard is used where any vehicles, equipment, workers or their activities will encroach in the area 15' (4.5 m) to 24" (600) from the edge of pavement.

Calculate L as follows:

SPEED LIMIT	FORMULAS	
	English	(Metric)
40 mph (70 km/h) or less:	$L = \frac{WS^2}{60}$	$L = \frac{WS^2}{150}$
45 mph (80 km/h) or greater:	$L = (W)(S)$	$L = 0.65(W)(S)$

W = Width of offset in feet (meters).

S = Normal posted speed mph (km/h).

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

DATE	REVISIONS
1-1-14	Revised workers sign number to agree with current MUTCD.
1-1-13	Omitted text 'WORKERS' sign.

**OFF-RD OPERATIONS, 2L, 2W, 15' (4.5 m) TO 24" (600 mm) FROM PAVEMENT EDGE**

**STANDARD 701006-05**

Illinois Department of Transportation

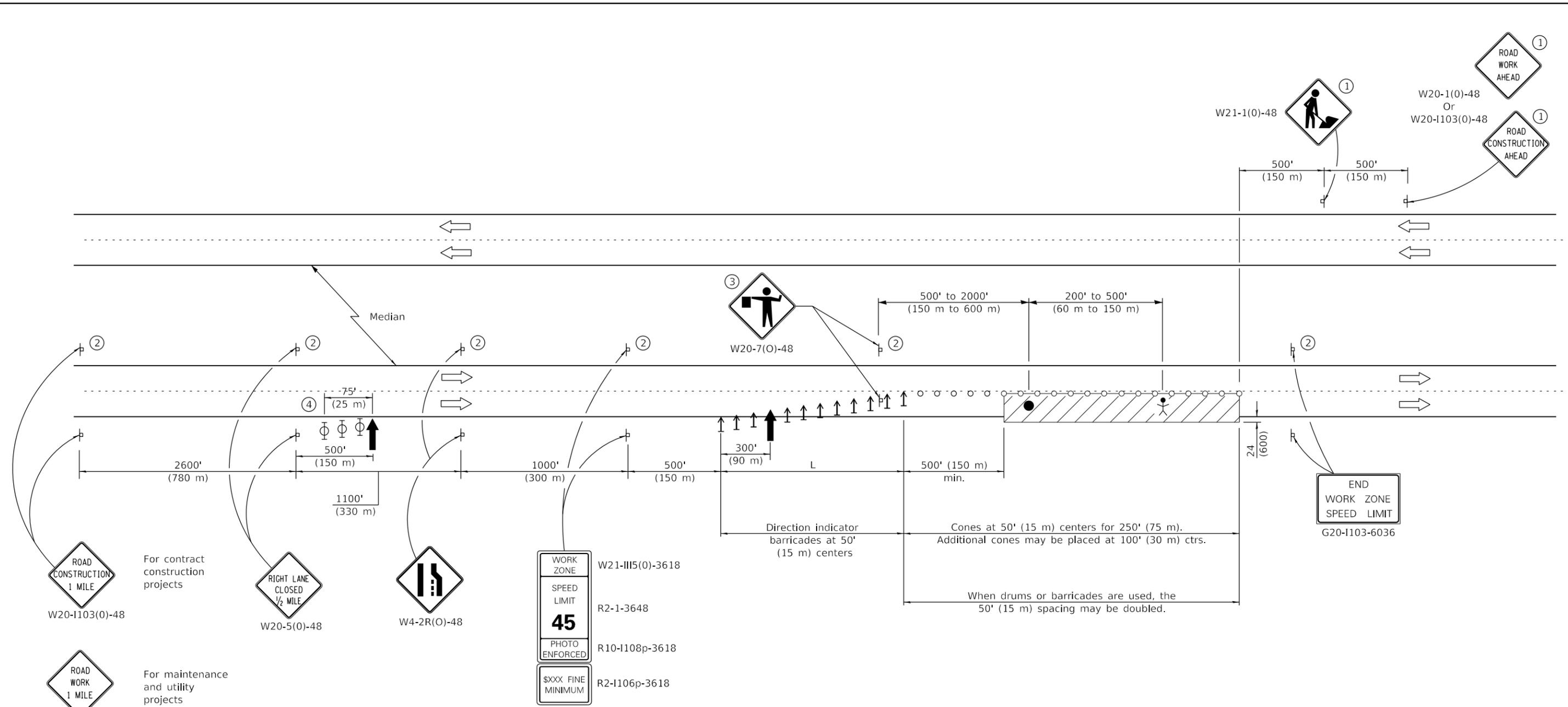
PASSED January 1, 2014

ENGINEER OF SAFETY ENGINEERING

APPROVED January 1, 2014

ENGINEER OF DESIGN AND ENVIRONMENT

ISSUED 1-1-97



ROAD CONSTRUCTION 1 MILE  
W20-1103(0)-48

For contract construction projects

RIGHT LANE CLOSED 1/2 MILE  
W20-5(0)-48

W4-2R(0)-48

ROAD WORK 1 MILE  
W20-1(0)-48

For maintenance and utility projects

WORK ZONE W21-III5(0)-3618  
SPEED LIMIT 45 R2-1-3648  
PHOTO ENFORCED R10-1108p-3618  
\$XXX FINE MINIMUM R2-1106p-3618

L = lane width X taper ratio	
Normal Posted Speed	Taper Ratio
mph	
55	55/1
45	45/1

**SYMBOLS**

- ↑ Arrow board
- ▨ Work area
- ⊥ Sign
- ↑ Direction indicator barricade
- Cone, drum or barricade
- Flagger with traffic control sign
- ⚠ Worker
- ⦿ Type II barricade, drum, or vertical barricade with monodirectional flashing light

- ① Undivided roadway only with left lane closure in opposite direction.
- ② Omitted when median is less than 10' (3 m).
- ③ FLAGGER signs shall be moved as necessary to maintain the required spacing between the sign and each separate work activity.
- ④ Three Type II barricades, drums, or vertical barricades at 25' (8 m) centers.

**GENERAL NOTES**

This Standard is used where at any time, any vehicle, equipment, workers or their activities will encroach on the lane adjacent to the shoulder, or on the shoulder within 24 (600) of the edge of pavement.

This Standard also applies when work is being performed in the left lane. Under these conditions, LEFT LANE CLOSED signs shall be substituted for RIGHT LANE CLOSED signs. On undivided highways, signs shall be added in the opposite direction as shown.

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

Illinois Department of Transportation

PASSED January 1, 2017  
ENGINEER OF SAFETY PROG. AND ENGINEERING

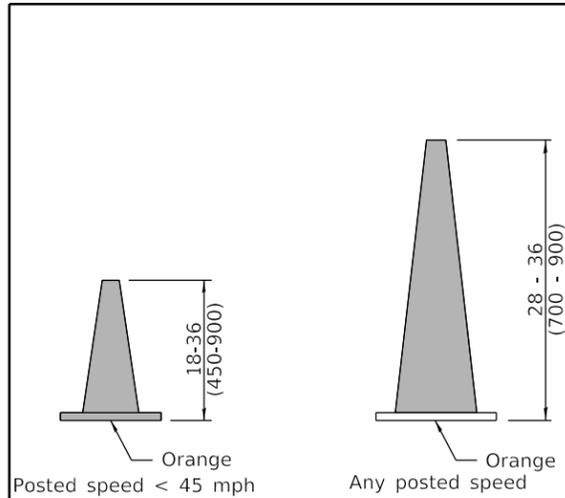
APPROVED January 1, 2017  
ENGINEER OF DESIGN AND ENVIRONMENT

ISSUED 4-1-04

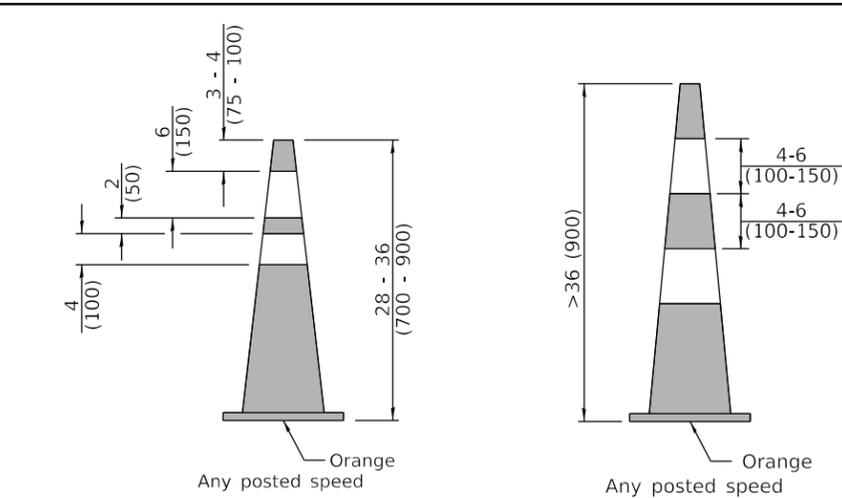
DATE	REVISIONS
1-1-17	Rev. END WORK ZONE SPEED LIMIT sign. Changed device spacing at first arr. brd.
1-1-15	Revised END WORK ZONE SPEED LIMIT sign dimensions.

**LANE CLOSURE, MULTILANE, DAY OPERATIONS ONLY, FOR SPEEDS ≥ 45 MPH TO 55 MPH**

**STANDARD 701421-08**

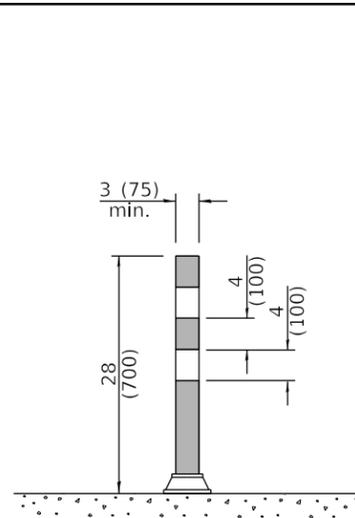


**DAYTIME USE**

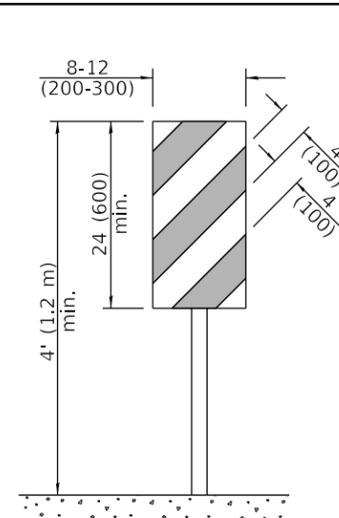


**DAY OR NIGHTTIME USE**

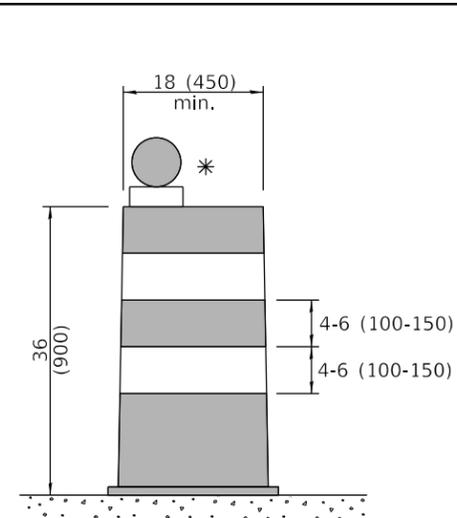
**CONES**



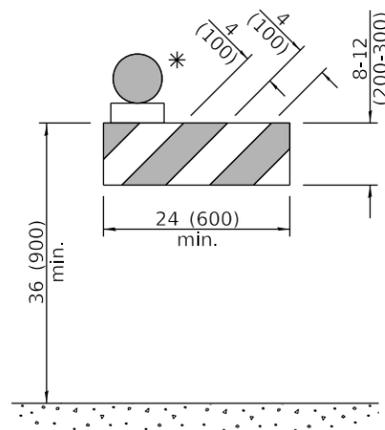
**TUBULAR MARKER**



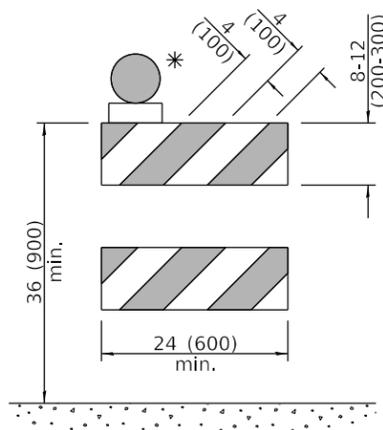
**VERTICAL PANEL  
POST MOUNTED**



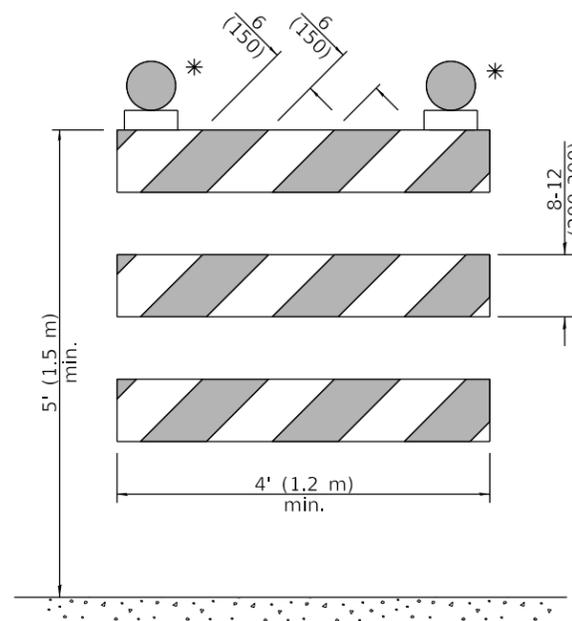
**DRUM**



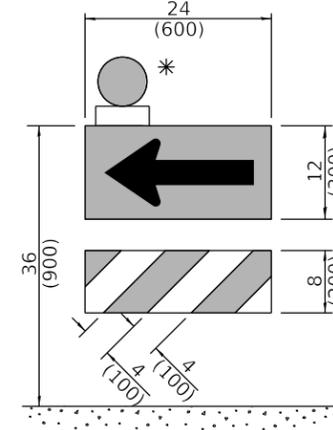
**TYPE I BARRICADE**



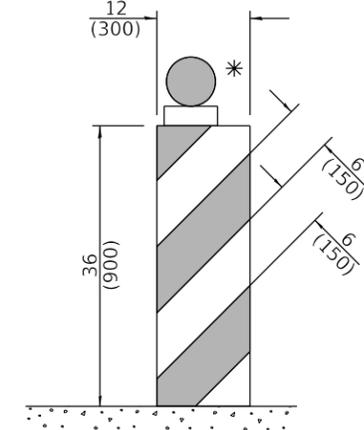
**TYPE II BARRICADE**



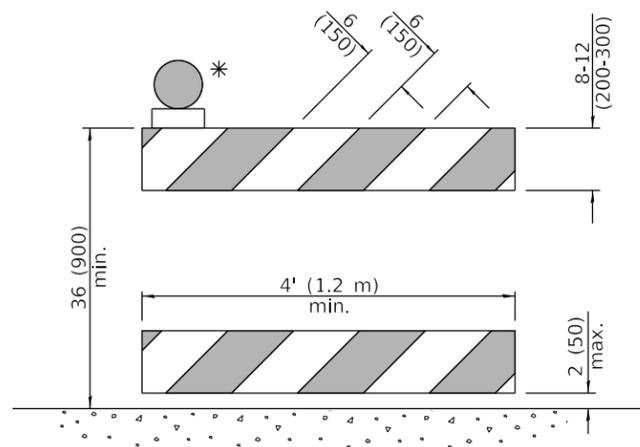
**TYPE III BARRICADE**



**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.

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

**TRAFFIC CONTROL DEVICES**

(Sheet 1 of 3)

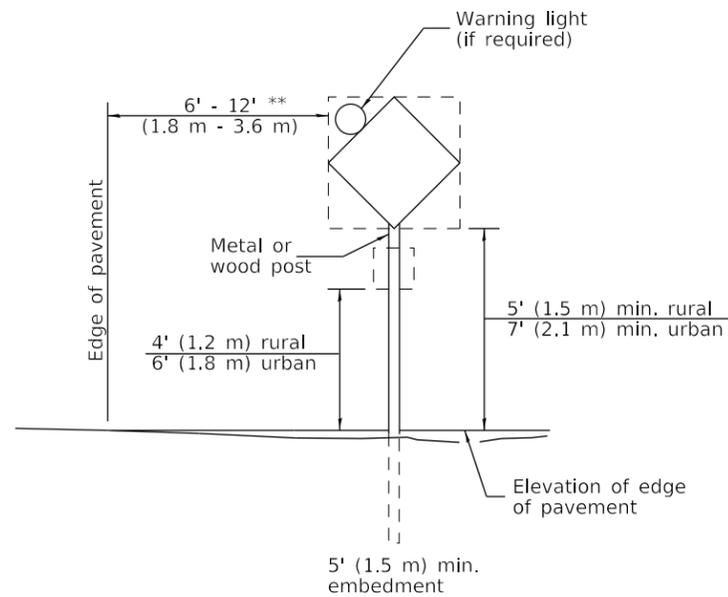
**STANDARD 701901-08**

Illinois Department of Transportation

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

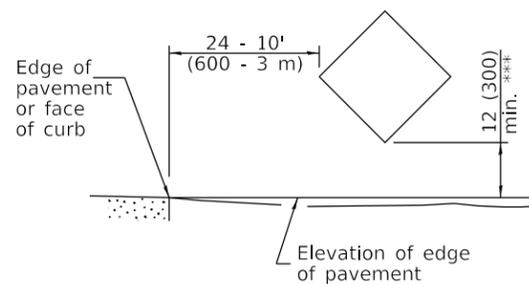
APPROVED January 1, 2019  
  
 ENGINEER OF DESIGN AND ENVIRONMENT

ISSUED  
 ET-1-1



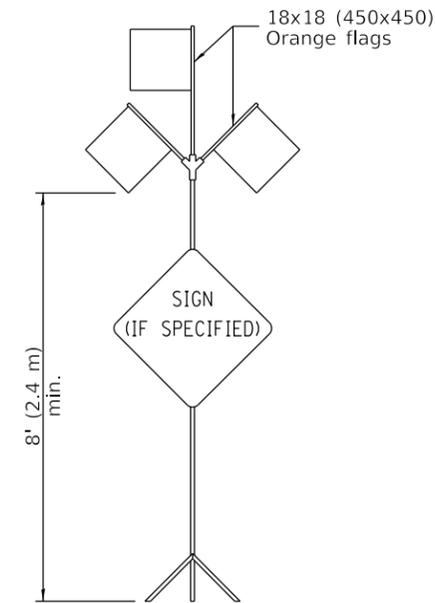
**POST MOUNTED SIGNS**

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

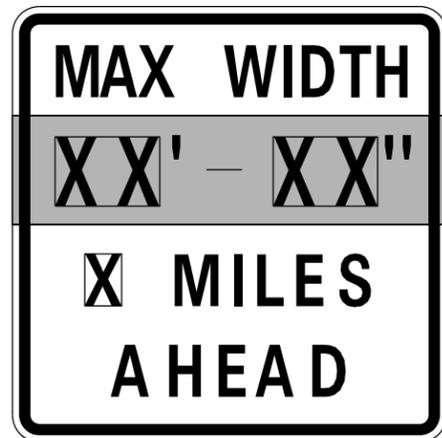


**SIGNS ON TEMPORARY SUPPORTS**

\*\*\* When work operations exceed four days, this dimension shall be 5' (1.5 m) min. If located behind other devices, the height shall be sufficient to be seen completely above the devices.



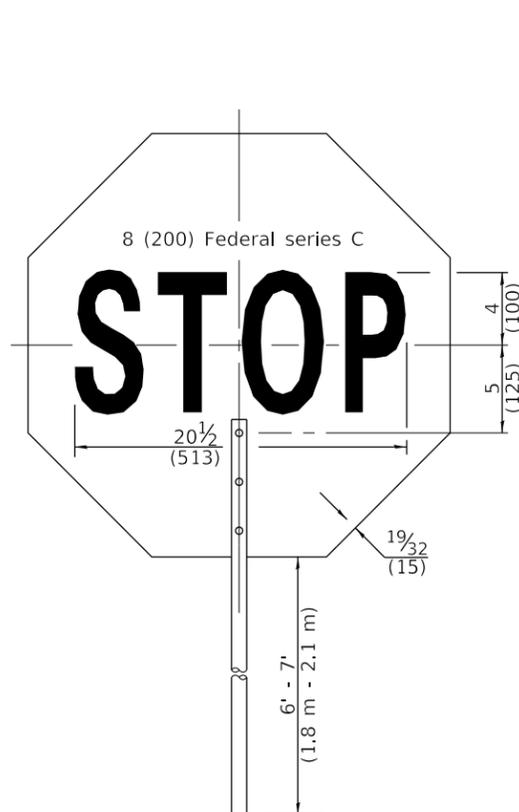
**HIGH LEVEL WARNING DEVICE**



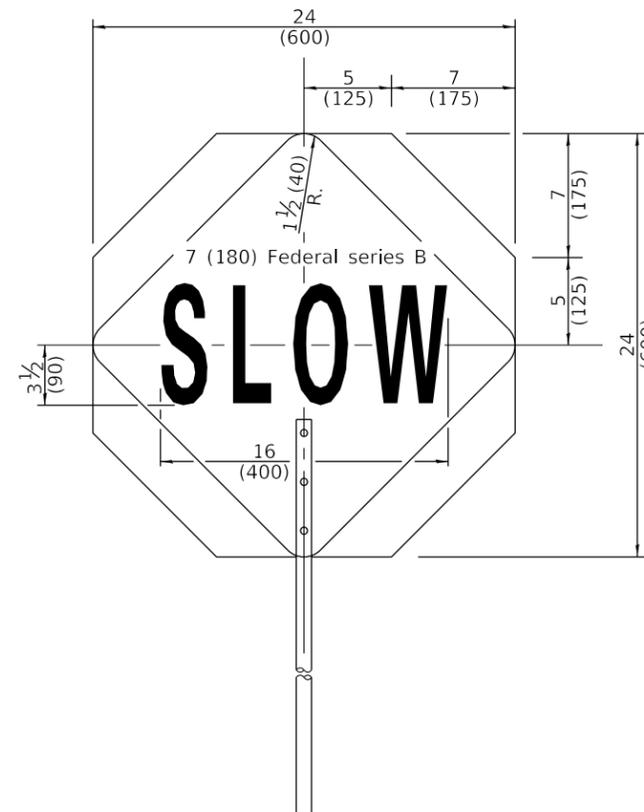
W12-I103-4848

**WIDTH RESTRICTION SIGN**

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



FRONT SIDE



REVERSE SIDE

**FLAGGER TRAFFIC CONTROL SIGN**



G20-I104(0)-6036



G20-I105(0)-6024

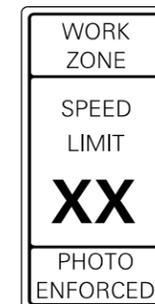
This signing is required for all projects 2 miles (3200 m) or more in length.

ROAD CONSTRUCTION NEXT X MILES sign shall be placed 500' (150 m) in advance of project limits.

END CONSTRUCTION sign shall be erected at the end of the job unless another job is within 2 miles (3200 m).

Dual sign displays shall be utilized on multi-lane highways.

**WORK LIMIT SIGNING**



W21-III5(0)-3618

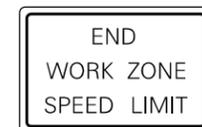
R2-1-3648

R10-I108p-3618 \*\*\*\*



R2-I106p-3618

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



G20-I103-6036

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

**HIGHWAY CONSTRUCTION SPEED ZONE SIGNS**

\*\*\*\* R10-I108p shall only be used along roadways under the jurisdiction of the State.

**TRAFFIC CONTROL DEVICES**

(Sheet 2 of 3)

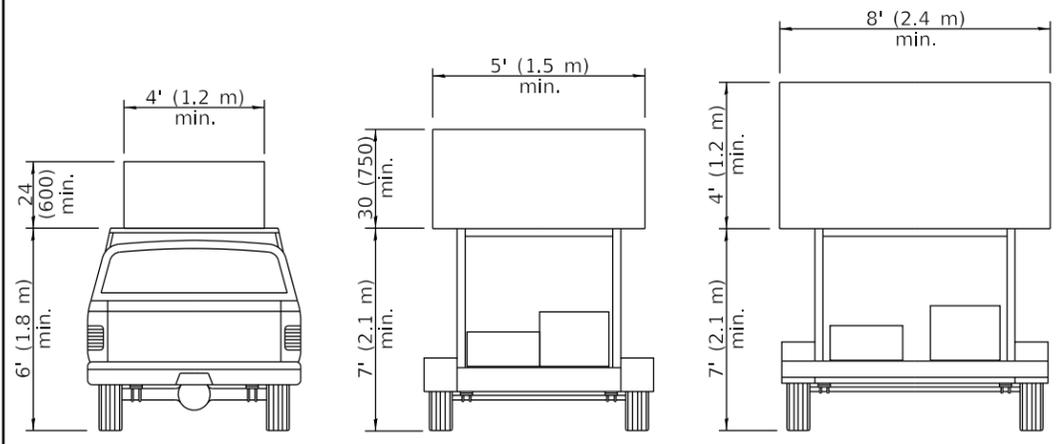
**STANDARD 701901-08**

Illinois Department of Transportation

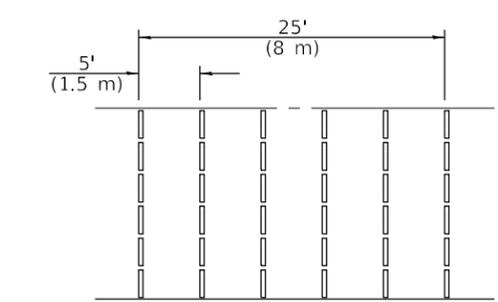
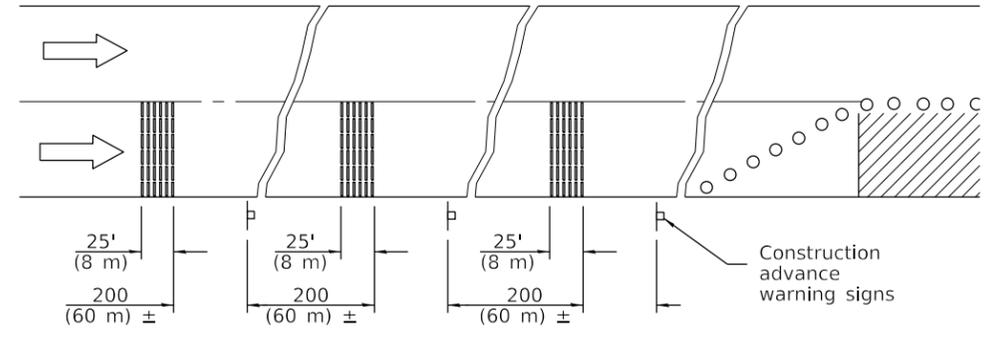
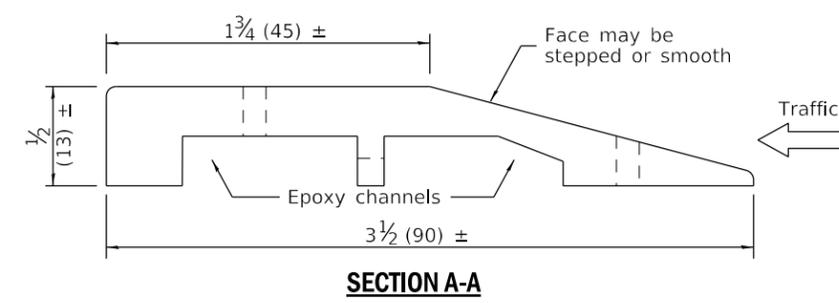
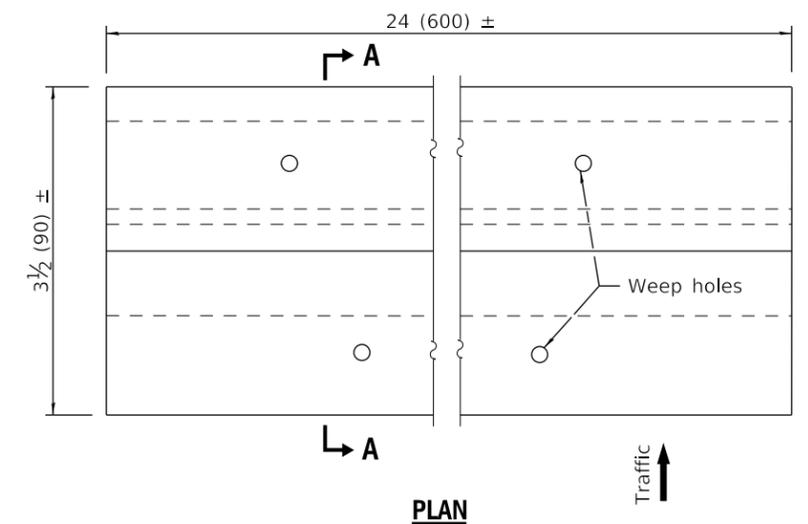
APPROVED January 1, 2019  
*Cynthia Watt*  
 ENGINEER OF SAFETY PROG. AND ENGINEERING

APPROVED January 1, 2019  
*J. E. ...*  
 ENGINEER OF DESIGN AND ENVIRONMENT

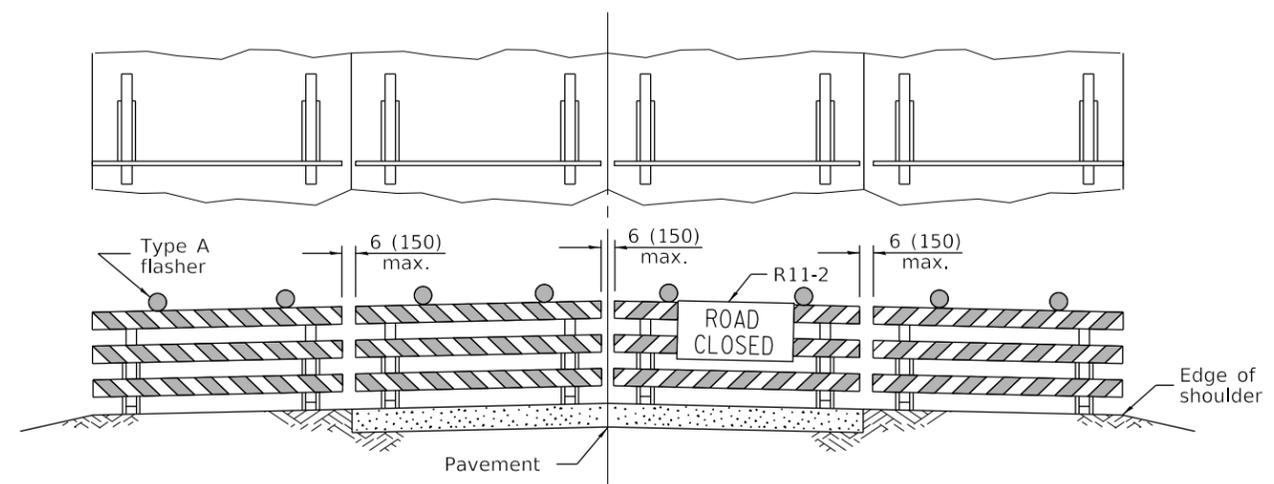
ISSUED 1-1-13



**ARROW BOARDS**



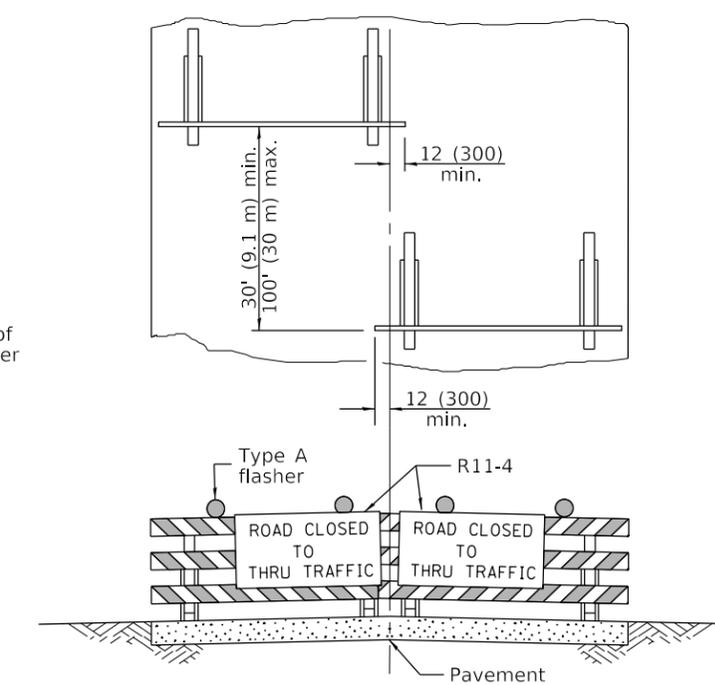
**TEMPORARY RUMBLE STRIPS**



**ROAD CLOSED TO ALL TRAFFIC**

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

**TYPICAL APPLICATIONS OF  
TYPE III BARRICADES CLOSING A ROAD**



**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.

Illinois Department of Transportation

APPROVED January 1, 2019

*Cynthia Watt*  
ENGINEER OF SAFETY PROG. AND ENGINEERING

APPROVED January 1, 2019

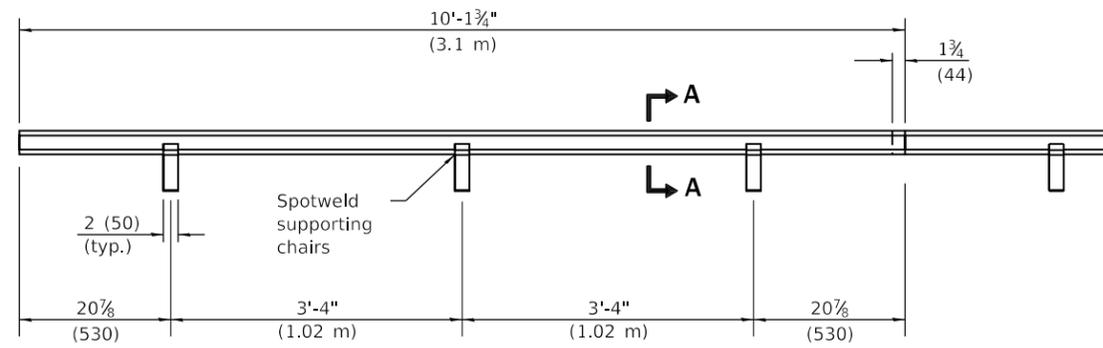
*Joe E. ...*  
ENGINEER OF DESIGN AND ENVIRONMENT

ISSUES  
E1-1-1 Q3581

**TRAFFIC CONTROL  
DEVICES**

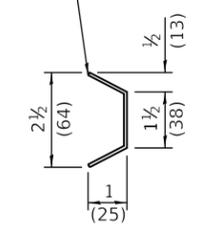
(Sheet 3 of 3)

**STANDARD 701901-08**

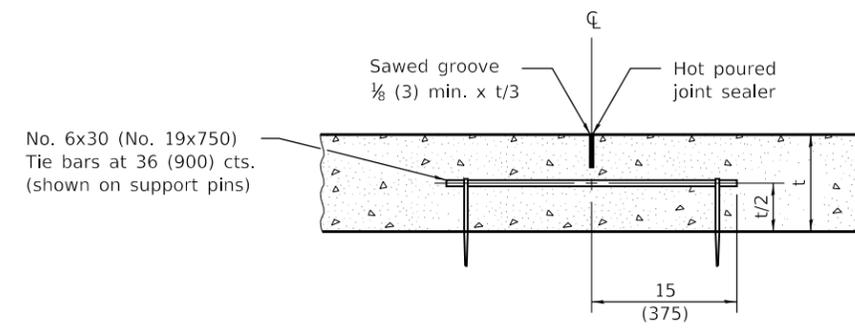


**TYPE C METAL JOINT**

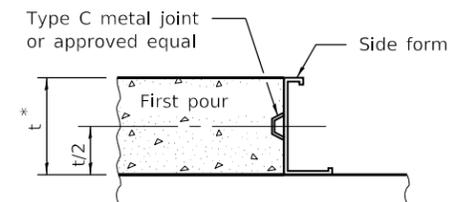
Sheet steel of suitable thickness to form keyway as detailed or approved equal.



**SECTION A-A**

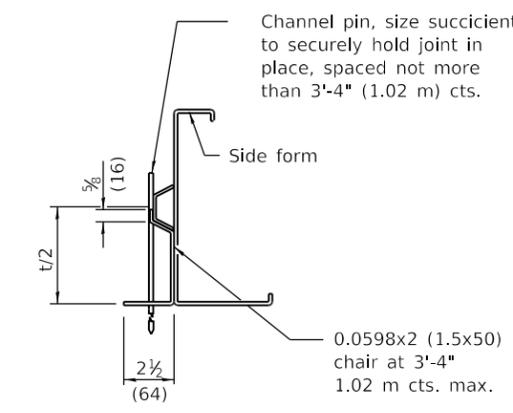


**LONGITUDINAL SAWED JOINT**

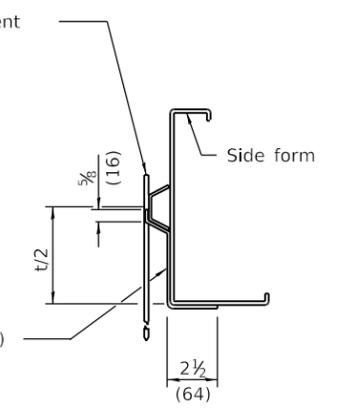


**LONGITUDINAL KEYED JOINT**

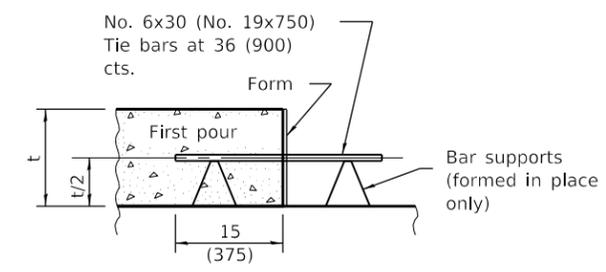
\* 8 (203) min. pavement thickness for keyed joints.



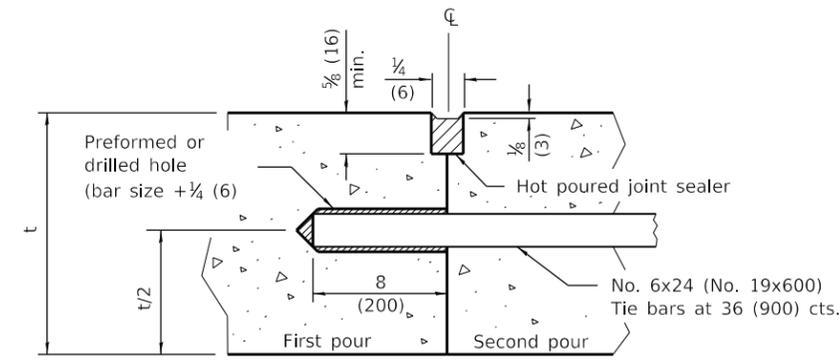
**SUPPORTING CHAIR ALTERNATE**



**SUPPORTING CHAIR ALTERNATE**



**LONGITUDINAL CONSTRUCTION JOINT**  
(TIE BAR FORMED IN PLACE OR MECHANICALLY INSERTED)



**LONGITUDINAL CONSTRUCTION JOINT**  
(TIE BAR GROUTED IN PLACE)

**GENERAL NOTES**

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

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

Illinois Department of Transportation

PASSED January 1, 2022  
*Michael Beard*  
ENGINEER OF POLICY AND PROCEDURES

APPROVED January 1, 2022  
*John C. ...*  
ENGINEER OF DESIGN AND ENVIRONMENT

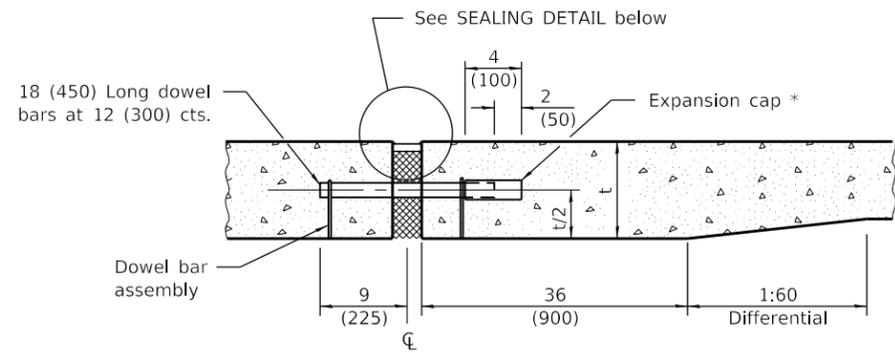
ISSUED 1-1-97

DATE	REVISIONS
1-1-22	Revised DOWEL BAR TABLE on Sheet 2.
1-1-18	Changed tie bar spacing to 36 (900) cts. Revised DOWEL BAR TABLE.

**PAVEMENT JOINTS**

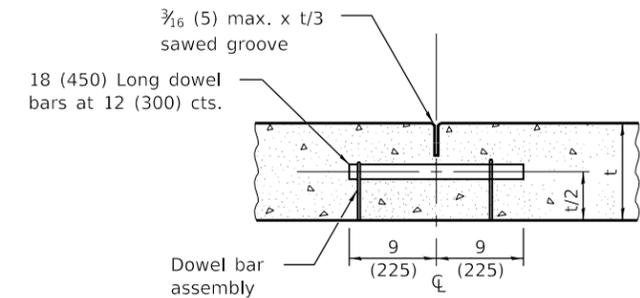
(Sheet 1 of 2)

**STANDARD 420001-10**

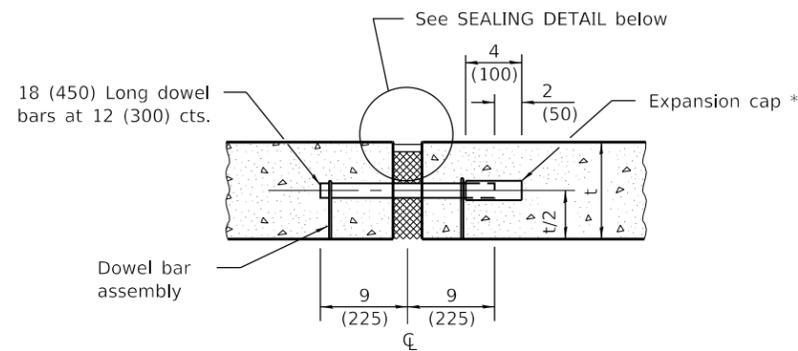


**TRANSVERSE EXPANSION JOINT**  
(FOR PAVEMENTS WITH UNEQUAL THICKNESS)

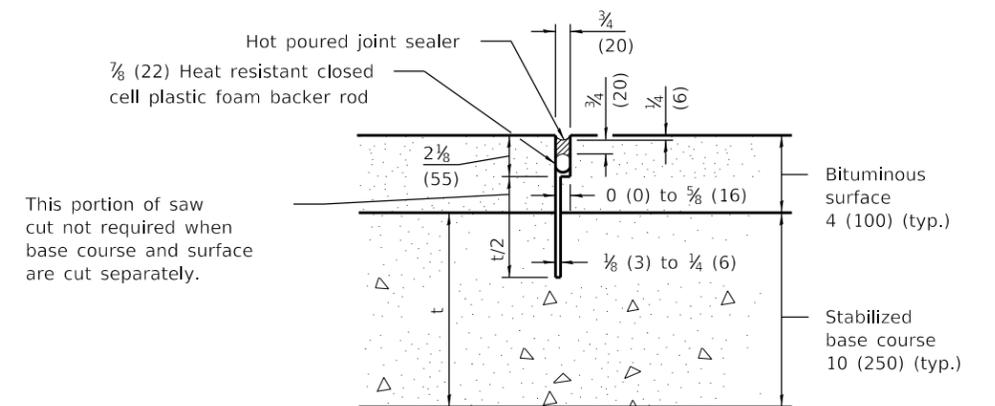
\* Expansion caps shall be installed on the exposed end of each dowel bar once the header has been removed and the joint filler material has been installed.



**TRANSVERSE CONTRACTION JOINT**

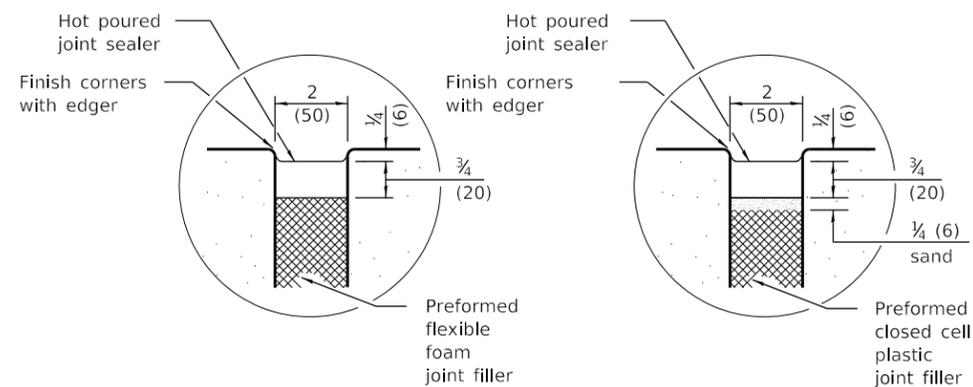


**TRANSVERSE EXPANSION JOINT**  
(FOR PAVEMENTS WITH EQUAL THICKNESS)



This portion of saw cut not required when base course and surface are cut separately.

**TRANSVERSE CONTRACTION JOINT**  
(FOR CAM, CFA AND LFA BASE COURSE MIXTURES)



**SEALING DETAIL**

DOWEL BAR TABLE	
PAVEMENT THICKNESS	DOWEL BAR DIAMETER
10 (250) and greater	1 1/2 (38)
8.01 (201) thru 9.99 (249)	1 1/4 (32)
8 (200) and less	1 (25)