

BILL NO. 953ORDINANCE NO. 938

SAME BEING AN ORDINANCE OF THE CITY OF NEOSHO, MISSOURI, APPROVING AND UPDATING SPECIFICATIONS FOR ALTERNATIVE SURFACING FOR NEW CONSTRUCTION AND RESURFACING OF EXISTING STREETS, ALLEYS, CURBS AND GUTTERS, AND SIDEWALKS, AND PROVIDING THAT CONSTRUCTION AND RESURFACING OF STREETS, ALLEYS, CURBS AND GUTTERS, AND SIDEWALKS, IN THE FUTURE BE IN ACCORDANCE WITH SAID SPECIFICATIONS.

WHEREAS, on the 17th day of June 1975, the City Council of the City of Neosho adopted Ordinance No. 902 which said ordinance set out and adopted certain specifications for alternative surfacing for new construction and resurfacing of existing streets, alleys, curbs, gutters and sidewalks, and provided that construction and resurfacing of streets, alleys, curbs, gutters, and sidewalks be in accordance with said specifications, and,

WHEREAS, the City Manager, City Attorney, and Director of Public Works have reviewed said specifications and have indicated to the City Council a need for updating the same and have presented to the City Council an updated copy of specifications.

NOW, THEREFORE, BE IT ORDAINED BY THE CITY COUNCIL OF THE CITY OF NEOSHO, MISSOURI, AS FOLLOWS:

SECTION 1: That the standard specifications for alternative surfacing of streets and alleys and for construction of curbs and gutters and sidewalks, a copy of said standard specifications being attached hereto and designated as "City of Neosho Street Standard Specifications for Asphaltic Concrete Paving; Portland Cement Concrete Paving; Concrete Curbs And Gutter; and Concrete Sidewalks," are hereby adopted by the City of Neosho.

SECTION 2: Said standard specifications are hereby adopted as standard specifications for all construction and resurfacing work on streets and alleys and all construction or replacement of curbs and gutters and sidewalks in the City of Neosho from and after the effective date hereof.

SECTION 3: A copy of said standard specifications shall be kept on file with the City Clerk of the City of Neosho, Missouri, and any amendments or additions thereto shall be approved by the City Council with such amendment or addition placed on file with the City Clerk.

SECTION 4: In subdivisions where costs of street improvements are borne by the developer of the subdivision, said developer shall be entitled to choose the type of street surfacing from among the alternative surfacing methods provided for by said standard specifications. Type of street surfacing for all other street construction or resurfacing shall be determined by the City Council.

SECTION 5: All ordinances or parts of ordinances in conflict herewith are specifically repealed.

SECTION 6: This ordinance shall be in full force and effect 15 days after its passage and approval.

ATTEST:

Edile M. Martin
City Clerk

G. Hornet
Mayor

APPROVED

after passage this

21st

day of

October

1976.

ATTEST:

Edile M. Martin
City Clerk

G. Hornet
Mayor

005455

CITY OF NEOSHO, MISSOURI
SPECIFICATIONS
FOR
ASPHALTIC CONCRETE PAVING

GENERAL PROVISIONS

This work shall consist of the construction of a 2" thick asphaltic concrete surface course over a 6" thick crushed limestone base course on a prepared subgrade in accordance with these specifications and in reasonably close conformity with the lines and grades established by the Director of Public Works of the City of Neosho, Missouri.

The intent of the contract is to provide for the construction and completion in every detail of the work described. The bidder is expected to examine carefully the site of the work and all documents pertaining to its construction in order to verify the work conditions and requirements. The contractor shall furnish all labor, materials, equipment, tools, transportation, and supplies required to complete the work in accordance with the terms of the contract.

The "engineer" shall be that person so designated by the Director of Public Works. The engineer will decide all questions which may arise concerning quality and acceptability of materials furnished, manner of performance and rate of progress of work, interpretation of documents relating to the work, and acceptable fulfillment of the contract by the contractor. Suspension of the work may be ordered by the engineer if deemed to be in the public interest. Where this specification requires the contractor to employ "approved" materials or methods, approval shall be obtained from the engineer.

The contractor shall provide, erect, and maintain all necessary barricades, suitable and sufficient lights, danger signals, signs, and other traffic control devices. He shall take all necessary precautions to protect the work and to safeguard the public. Streets closed to traffic shall be protected by effective barricades, and obstructions shall be illuminated during hours of darkness. Suitable warning signs shall be provided to control and direct traffic properly.

The contractor shall be responsible for preserving all public and private property. He shall protect from disturbance or damage all land monuments and property marks until the engineer has witnessed or otherwise referenced their location.

STREET STANDARDS
AC-1

July 1, 1975

During the prosecution of the work, the contractor shall be responsible for all damage or injury to any property that results from any act, omission, neglect, or misconduct in his execution of the work. He shall be responsible for all damage or injury due to defective work or materials. Repair or replacement of damaged or injured property shall be at the contractor's expense and shall be similar or equal to that existing before such damage or injury occurred.

The contractor shall set construction stakes establishing lines and grades for street work and for structures; he shall stake out the centerline and shall obtain approval of all such work from the engineer prior to proceeding with paving work.

Any work not covered in these specifications shall be accomplished in accordance with the current standards and specifications of the Missouri State Highway Commission.

EARTHWORK

All surface objects and all trees, stumps, roots, and other protruding obstructions not designated to remain shall be cleared and grubbed, and mowed as required. Undisturbed stumps and roots and nonperishable solid objects that will be a minimum of 18 inches below subgrade or slope of embankments shall be excepted. Topsoil shall be excavated and stockpiled for use in backfilling behind curbs.

Substances encountered within the limits of the project shall be excavated to the required lines and grades. All excavation shall be accomplished in such a manner as to allow adequate drainage. Suitable material removed from the excavations shall be used for embankments, backfilling, and such other purposes as directed by the engineer. If material encountered within the limits of the work is considered unsuitable, it shall be excavated and replaced with suitable material. All unsuitable material and any excavated material not required for embankments and backfilling shall be disposed of by the contractor.

Embankments shall be constructed by placing and compacting materials of acceptable quality following the required lines, grades, and cross-sections. Before any embankment is placed, all trees, sod, and topsoil over the entire area shall be cleared. Each layer of embankment material shall not exceed 6 inches in compacted depth. It shall be disked sufficiently to break down oversized clods and thoroughly mix all materials. Each layer shall be uniformly compacted at optimum moisture by roller or vibratory equipment suitable for the type of material encountered.

005457

Borrow shall consist of approved material required for constructing embankments or for other portions of the work, and shall be obtained from approved sources. The contractor shall arrange to obtain borrow and shall pay all costs involved.

All soft and yielding material and other portions of the subgrade that will not compact readily when rolled or tamped shall be removed and replaced with suitable material. The subgrade shall be brought to a firm and unyielding condition with a uniform density of 95%, as approved by the engineer. It shall be compacted at or slightly above the optimum moisture content. Moisture content may be evaluated by squeezing a ball of damp soil in the hand. If the ball crumbles easily, additional water shall be mixed into the soil. If free water comes to the surface when kneaded, the subgrade shall be dried before final compaction.

All utility trenches and structure excavations shall be backfilled with aggregate base course material as soon as conditions permit. All backfill shall be compacted with mechanical tampers in layers of not over 6 inches in compacted thickness.

BASE COURSE

The base course shall consist of a 4" thick layer of creek gravel, topped with a 2" thick layer of crushed limestone conforming to the following gradation:

Percent
Passing 1½" Sieve ---- 100%

Prior to placement of base material, the subgrade shall be restored to proper shape, grade, and density. Spread base material, on moistened subgrade, in two layers of approximately 4" compacted thickness and 2" compact thickness to provide 6" (minimum) thick base. Each layer shall be compacted before succeeding layers are placed. Final rolling shall be accomplished by smooth-wheeled roller weighing not less than 5 tons. Maintain proper moisture content of aggregate during shaping and compaction operations. Compact to 95% of maximum density as approved by the engineer.

STREET STANDARDS
AC-3

*Change, per Ord 938
10-21-76*

NEW STANDARDS

005463

Borrow shall consist of approved material required for constructing embankments or for other portions of the work, and shall be obtained from approved sources. The contractor shall arrange to obtain borrow and shall pay all costs involved.

All soft and yielding material and other portions of the subgrade that will not compact readily when rolled or tamped shall be removed and replaced with suitable material. The subgrade shall be brought to a firm and unyielding condition with a uniform density of 95%, as approved by the engineer. It shall be compacted at or slightly above the optimum moisture content. Moisture content may be evaluated by squeezing a ball of damp soil in the hand. If the ball crumbles easily, additional water shall be mixed into the soil. If free water comes to the surface when kneaded, the subgrade shall be dried before final compaction.

All utility trenches and structure excavations shall be backfilled with aggregate base course material as soon as conditions permit. All backfill shall be compacted with mechanical tampers in layers of not over 6 inches in compacted thickness.

BASE COURSE

The base course shall consist of a 4" thick layer of creek gravel, topped with a 2" thick layer of crushed limestone conforming to the following gradation:

Percent

Passing 1½" Sieve ---- 100%

Prior to placement of base material, the subgrade shall be restored to proper shape, grade, and density. Spread base material, on moistened subgrade, in two layers of approximately 4" compacted thickness and 2" compact thickness to provide 6" (minimum) thick base. Each layer shall be compacted before succeeding layers are placed. Final rolling shall be accomplished by smooth-wheeled roller weighing not less than 5 tons. Maintain proper moisture content of aggregate during shaping and compaction operations. Compact to 95% of maximum density as approved by the engineer.

*Duplicate
Page*

STREET STANDARDS

AC-3

ASPHALT PRIMING

Aggregate base course or existing concrete base shall receive a pressure applied asphalt primer coat. Primer shall be MC-30 or MC-70 liquid asphalt as approved by the engineer. Primer shall be uniformly distributed over the surface at the rate of 0.3 gallons per square yard. Apply primer only when air temperature is 50°F or higher except as otherwise approved by the engineer.

ASPHALTIC CONCRETE SURFACE COURSE

Mix for surface course shall conform to Missouri State Highway Department requirements for Type C (403.3). Asphalt cement shall be 85-100 penetration grade, in accordance with ASTM Designation D140. Aggregate shall be crushed limestone. Submit mix design and obtain approval from the engineer prior to proceeding with work.

Mixing plant equipment and procedures shall be such that the approved mix (within specified tolerances) may be consistently produced, as approved by the engineer.

Pavers shall be self-powered, capable of spreading the mix true to required line, grade, and crown. Primary and finish rolling shall be accomplished with steel-wheeled rollers, and intermediate rolling by pneumatic-tired rollers of not less than 10 tons. All equipment proposed for use in laying pavement shall be subject to engineer's approval.

Hot-mix asphalt paving shall not be mixed or placed when ambient temperature is below 50°F. or when there is frost in the subgrade.

Base course shall be brought to proper condition to receive surfacing immediately prior to placing surface course, as approved by the engineer.

Construction joints in pavements shall conform to Missouri State Highway Department Section 403.12.

Rolling shall be continued until a density of 95% of maximum is obtained and until all roller marks are removed.

Except as otherwise directed by the engineer, street pavement shall be crowned 3"; alleys, swarded 2-1/2".

WATER

Water for construction purposes will be furnished by the City of Neosho. Water shall be obtained in location as directed by the engineer.

QUALITY CONTROL

The engineer may arrange for quality control testing during the progress of the work. The cost of such testing will be borne by the City of Neosho and is not to be included in the contract except that the cost of tests which reveal deficiencies shall be borne by the contractor. In the event the deficiencies are indicated by testing, the contractor shall arrange for and pay all costs of additional testing as may be required to determine extent of such deficiencies, all to the satisfaction of the engineer. Subgrade and base course work found not to meet specifications shall be corrected, as approved by the engineer, at no additional cost to the City. Payment for installed asphaltic concrete work not meeting specifications will become a subject for negotiation between the contractor and the City of Neosho.

Testing, where required, shall be performed by methods specified in the Missouri State Highway Specifications for such work.

BOND

The City shall have the right, prior to signing of the Contract, to require the Contractor to furnish bond covering the faithful performance of the contract and the payment of all obligations arising thereunder, in such form as the City may prescribe and with such surety as the City may approve. If such bond is required by instructions given previous to the submission of proposals, the premium shall be paid by the contractor; if subsequent thereto, it shall be paid by the City.

CONTRACTOR'S LIABILITY INSURANCE

The Contractor shall purchase and maintain at its own cost and expense such insurance as will protect him and the City of Neosho from claims set forth below with limits of not less than \$100,000 per person in any one accident; and \$250,000 for any one accident; and Public Property Damage Liability insurance with limits of not less than \$50,000, which may arise out of or result from the Contractor's operations under the Contract, whether such operations be by himself or by any Subcontractor or by anyone directly or indirectly employed by any of them, or by anyone for whose acts any of them may be liable:

1. Claims under workmen's compensation, disability benefit and other similar employee benefit acts;
2. Claims for damages because of bodily injury, occupational sickness or disease; or death of his employees;
3. Claims for damages because of bodily injury, sickness or disease, or death of any person other than his employees;

4. Claims for damages insured by usual personal injury liability coverage which are sustained (1) by any person as a result of an offense directly or indirectly related to the employment of such person by the Contractor, or (2) by any other person; and
5. Claims for damages because of injury to or destruction of tangible property, including loss of use resulting therefrom.

Certificates of Insurance acceptable to the Owner (City of Neosho) shall be filed with the owner prior to commencement of the Work. These Certificates shall contain a provision that coverages afforded under the policies will not be cancelled until at least fifteen days' prior written notice has been given to the Owner.

005464

CITY OF NEOSHO, MISSOURI
SPECIFICATIONS
FOR
CONCRETE CURBS

GENERAL PROVISIONS

This work shall consist of the construction of curbing composed of portland cement concrete on a prepared subgrade in accordance with these specifications and in reasonably close conformity with the lines and grades established by the Director of Public Works of the City of Neosho, Missouri. Curbing work shall be in accordance with typical details included herewith.

The intent of the contract is to provide for the construction and completion in every detail of the work described. The bidder is expected to examine carefully the site of the work and all documents pertaining to its construction in order to verify the work conditions and requirements. The contractor shall furnish all labor, materials, equipment, tools, transportation, and supplies required to complete the work in accordance with the terms of the contract.

The "engineer" shall be that person so designated by the Director of Public Works. The engineer will decide all questions which may arise concerning quality and acceptability of materials furnished, manner of performance and rate of progress of the work, interpretation of documents relating to the work, and acceptable fulfillment of the contract by the contractor. Suspension of the work may be ordered by the engineer if deemed to be in the public interest. Where this specification requires the contractor to employ "approved" materials or methods, approval shall be obtained from the engineer.

The contractor shall provide, erect, and maintain all necessary barricades, suitable and sufficient lights, danger signals, signs and other traffic control devices. He shall take all necessary precautions to protect the work and to safeguard the public.

The contractor shall be responsible for preserving all public and private property. He shall protect from disturbance or damage all land monuments and property marks until the engineer has witnessed or otherwise referenced their location.

During the prosecution of the work, the contractor shall be responsible for all damage or injury to any property that results from any act, omission, neglect, or misconduct in his execution of the work. He shall be responsible for all damage or injury due to defective work or materials. Repair or replacement of damaged or injured property shall be at the contractor's expense and shall be similar or equal to that existing before such damage or injury occurred.

STREET STANDARDS
C-1

July 1, 1975

The contractor shall set construction stakes establishing lines and grades for curbing work and shall obtain approval from the engineer prior to proceeding with the work.

EARTHWORK

All surface objects and all trees, stumps, roots, and other protruding obstructions not designated to remain shall be cleared and grubbed, and mowed as required. Undisturbed stumps and roots and nonperishable solid objects that will be a minimum of 18 inches below subgrade or slope of embankments shall be excepted. Topsoil shall be excavated and stockpiled for use in backfilling behind curbs.

Substances encountered within the limits of the project shall be excavated to the required lines and grades. All excavation shall be accomplished in such a manner as to allow adequate drainage. Suitable material removed from the excavations shall be used for embankments, backfilling, and such other purposes as directed by the engineer. If material encountered within the limits of the work is considered unsuitable, it shall be excavated and replaced with suitable material. All unsuitable material and any excavated material not required for embankments and backfilling shall be disposed of by the contractor.

Embankments shall be constructed by placing and compacting materials of acceptable quality following the required lines and grades.

All soft and yielding material and other portions of the subgrade that will not compact readily shall be removed and replaced with suitable material. The subgrade shall be brought to a firm and unyielding condition with a uniform density meeting the criteria established by the engineer.

Concrete shall not be placed on a soft, spongy, frozen, or otherwise unsuitable subgrade. The subgrade shall be moist when the concrete is placed.

All excess concrete and debris shall be removed from the excavation behind the curbline before backfilling. The area between the curb and sidewalk or property line where no sidewalks exist, shall be graded in a neat, workmanlike manner. All such areas are required to be hand-raked.

MATERIALS

Concrete shall be composed of portland cement, aggregates, and water. Air entrainment shall be provided with air-entraining portland cement or by adding an air-entraining agent.

Cement shall conform to the following specifications: Portland Cement AASHO M85 or ASTM C150; Air-Entraining Portland Cement, AASHO M134 or ASTM C175.

Fine aggregate shall conform to the requirement of Missouri State Highway specifications Section 1005.2, gradation in accordance with Section 1005.2.4.1. Coarse aggregate shall conform to the requirements of Missouri State Highway Specifications Section 1005.1, Aggregate No. 3, Gradation B.

Water used in mixing or curing shall be reasonably clean and free of oil, salt, acid, alkali, sugar, vegetable matter, or other substance injurious to the finished product.

No admixtures (except for air-entrainment) shall be used in the concrete without prior approval, and all approved admixtures shall meet applicable Missouri State Highway Department requirements. Air-entraining agents shall meet requirements of Missouri State Highway Department specification Section 1054 (AASHO M154).

Curing material shall conform to Missouri State Highway Department specifications Section 1055, paragraph 1055.1, Type 2 (white pigmented, liquid, membrane forming compound),

CONCRETE

Each cubic yard of concrete shall contain 564 lb. (6.0 bags) of cement plus or minus 2 percent. The water-cement ration by weight (pounds of water per pound of cement) shall not exceed 0.49 (5.5 gal. per bag of cement). Below this limit, the quantity of water shall be adjusted to give a slump of between 1½ and 3 inches. The concrete shall contain 6% (+ 1½%) entrained air.

The mix shall provide concrete having a 28 day compressive strength of 4000 psi.

Ready mixed concrete shall be mixed and delivered in accordance with requirements of AASHO M157. The mixer shall be operated at the drum speed shown on the manufacturer's name plate. The batch shall be so charged into the drum that a portion of the mixing water shall enter in advance of the cement and aggregates. The flow of water shall be uniform, and all water shall be in the drum by the end of the first 15 seconds of mixing period. Mixed concrete shall be transported in truck mixers. No more than 60 minutes shall elapse from the time water is added to the mix until the concrete is deposited in place at the site of the work. Retempering concrete by adding water or by other means shall not be permitted.

FORMS

Forms shall be of such cross-section and strength and so secured as to resist the pressure of the concrete when placed. The method of connection between sections shall be such that the joints shall not move in any direction. The maximum deviation of the top surface shall not exceed 1/8 inch in 10 feet or the inside face not more than 1/4 inch in 10 feet from a straight line.

The subgrade under the forms shall be compacted and cut to grade so that the form when set will be uniformly supported for its entire length at the required elevation. The supply of forms shall be sufficient to permit their remaining in place for at least 12 hours after the concrete has been placed.

PLACING AND FINISHING

The concrete shall be deposited on the grade in such manner as to require as little rehandling as possible. Necessary hand spreading shall be done with shovels,

not rakes. Concrete shall be thoroughly consolidated against and along the face of all forms. In general, adding water to the surface of the concrete to assist in finishing operations shall not be permitted. If it is permitted, it shall be applied as a fog spray with approved spray equipment. Before final finishing is completed and before the concrete has taken its initial set, the edges of the curb shall be carefully finished with an edger.

Mountable curbing shall have a broomed finish with texture as directed by the engineer.

Curbs shall be formed to a minimum radius of 20'-0" unless otherwise directed by the engineer.

The contractor shall have always available materials to protect the surface of the plastic concrete against rain.

CURING

Concrete shall be cured by protecting it against loss of moisture, rapid temperature change, and mechanical injury for at least five days after placement. After finishing operations have been completed, the entire surface of the newly placed concrete shall be covered by white pigmented membrane. Membrane shall be applied after all free water has disappeared from the surface. Complete and uniform coverage at the rate of 200 sq.ft. per gallon shall be required. The compound shall be kept agitated to prevent the pigment from settling. The edges of concrete slabs exposed by the removal of forms shall be protected immediately.

The contractor shall have the equipment needed for curing at hand and ready to install before actual concrete placement begins.

JOINTS

Contraction Joints shall be provided at not greater than 15'0" centers. Contraction joints shall consist of planes of weakness created by forming or cutting grooves in the surface of the concrete.

Expansion Joints shall be provided at driveways, sidewalks, and other locations where curbing abuts fixed structures. Provide 1/2" thick expansion joint material.

QUALITY CONTROL

The engineer may arrange for concrete quality tests during the progress of the work. The cost of such testing will be borne by the City of Neosho and is not to be included in the contract except that cost of tests which reveal deficiencies in concrete strength or improper air content in the concrete shall be borne by the contractor. In the event the deficiencies are indicated by testing, the contractor shall arrange for and pay all costs of additional testing as may be required to determine extent of such deficiencies, all to the satisfaction of the engineer. Payment for installed work not meeting specifications will become a subject for negotiation between the contractor and the City of Neosho.

Testing, where required, shall be performed by methods specified in the Missouri State Highway Specifications for such work.

BOND

The City shall have the right, prior to signing of the Contract, to require the Contractor to furnish bond covering the faithful performance of the contract and the payment of all obligations arising thereunder, in such form as the City may prescribe and with such surety as the City may approve. If such bond is required by instruction given previous to the submission of proposals, the premium shall be paid by the Contractor; if subsequent thereto, it shall be paid by the City.

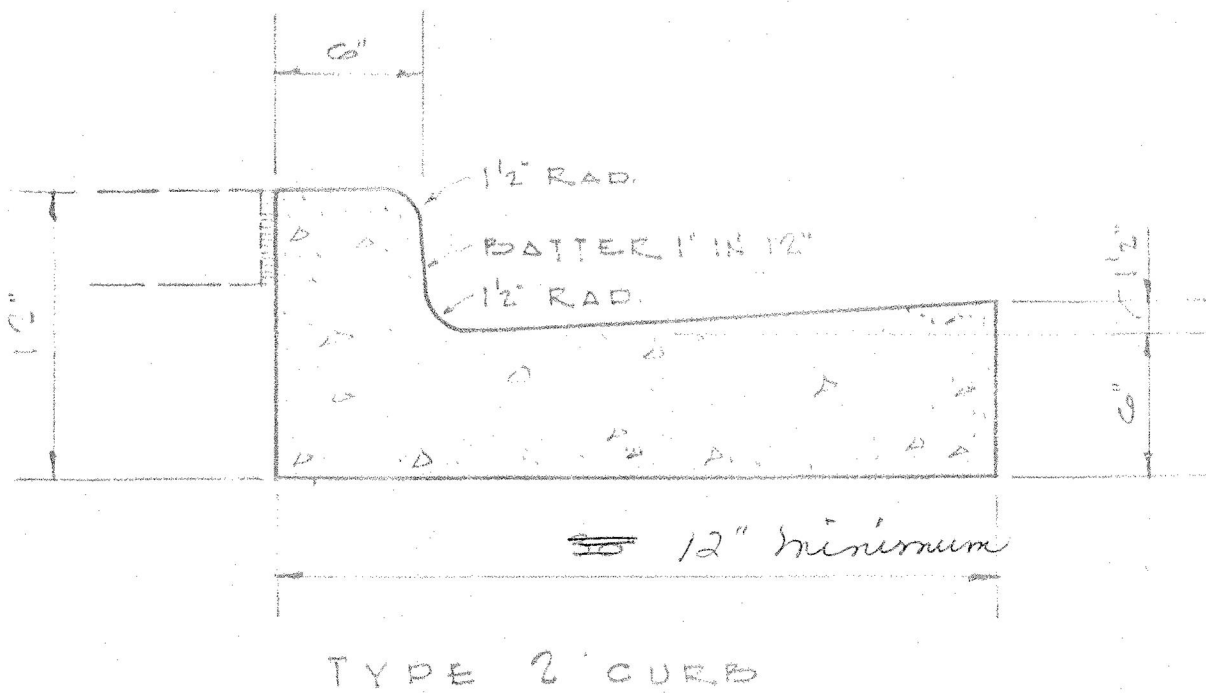
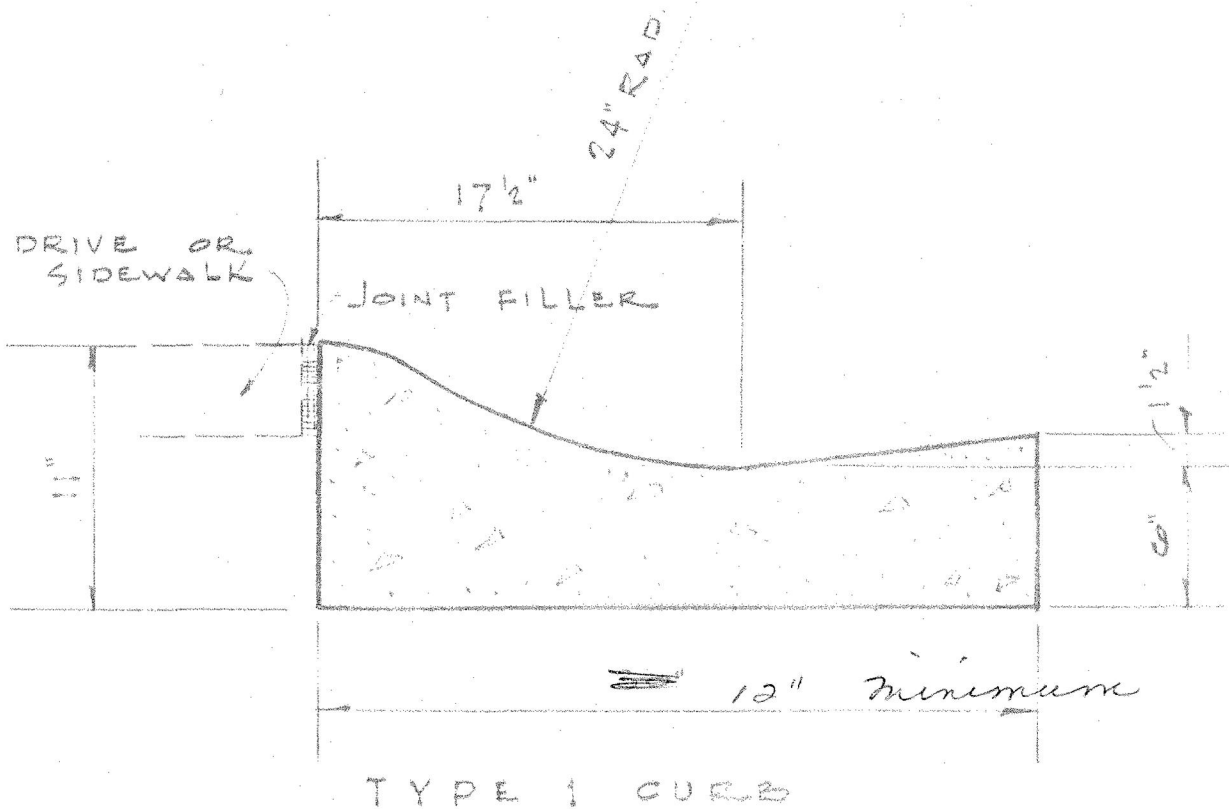
CONTRACTOR'S LIABILITY INSURANCE

The Contractor shall purchase and maintain at its own cost and expense such insurance as will protect him and the City of Neosho from claims set forth below with limits of not less than \$100,000 per person in any one accident; and \$250,000 for any one accident; and Public Property Damage Liability insurance with limits of not less than \$50,000, which may arise out of or result from the Contractor's operations under the Contract, whether such operations be by himself or by any Sub-contractor or by anyone directly or indirectly employed by any of them, or by anyone for whose acts any of them may be liable:

1. Claims under workmen's compensation, disability benefit and other similar employee benefit acts;
2. Claims for damages because of bodily injury, occupational sickness or disease; or death of his employees;
3. Claims for damages because of bodily injury, sickness or disease, or death of any person other than his employees;
4. Claims for damages insured by usual personal injury liability coverage which are sustained (1) by any person as a result of an offense directly or indirectly related to the employment of such person by the Contractor, or (2) by any other person; and
5. Claims for damages because of injury to or destruction of tangible property, including loss of use resulting therefrom.

Certificates of Insurance acceptable to the Owner (City of Neosho) shall be filed with the Owner prior to commencement of the work. These Certificates shall contain a provision that coverages afforded under the policies will not be cancelled until at least fifteen days' prior written notice has been given to the Owner.

005462



PROVIDE 3" (MIN) DEEP COMPACTED GRANULAR BASE

005489

CITY OF NEOSHO, MISSOURI
SPECIFICATIONS
FOR
CONCRETE SIDEWALKS

GENERAL PROVISIONS

This work shall consist of the construction of sidewalks composed of portland cement concrete on a prepared subgrade in accordance with these specifications and in reasonably close conformity with the lines and grades established by the Director of Public Works of the City of Neosho, Missouri. Sidewalk slabs shall be of 5" minimum thickness.

The intent of the contract is to provide for the construction and completion in every detail of the work described. The bidder is expected to examine carefully the site of the work and all documents pertaining to its construction in order to verify the work conditions and requirements. The contractor shall furnish all labor, materials, equipment, tools, transportation, and supplies required to complete the work in accordance with the terms of the contract.

The "engineer" shall be that person so designated by the Director of Public Works. The engineer will decide all questions which may arise concerning quality and acceptability of materials furnished, manner of performance and rate of progress of the work, interpretation of documents relating to the work, and acceptable fulfillment of the contract by the contractor. Suspension of the work may be ordered by the engineer if deemed to be in the public interest. Where this specification requires the contractor to employ "approved" materials or methods, approval shall be obtained from the engineer.

The contractor shall provide, erect, and maintain all necessary barricades, suitable and sufficient lights, danger signals, signs and other traffic control devices. He shall take all necessary precautions to protect the work and to safeguard the public.

The contractor shall be responsible for preserving all public and private property. He shall protect from disturbance or damage all land monuments and property marks until the engineer has witnessed or otherwise referenced their location.

During the prosecution of the work, the contractor shall be responsible for all damage or injury to any property that results from any act, omission, neglect, or misconduct in his execution of the work. He shall be responsible for all damage or injury due to defective work or materials. Repair or replacement of damaged or injured property shall be at the contractor's expense and shall be similar or equal to that existing before such damage or injury occurred.

CONCRETE SIDEWALKS
CS-1

July 1, 1975

695470

The contractor shall set construction stakes establishing lines and grades for sidewalk work and shall obtain approval from the engineer prior to proceeding with the work.

EARTHWORK

All surface objects and all trees, stumps, roots, and other protruding obstructions not designated to remain shall be cleared and grubbed. Undisturbed stumps and roots and nonperishable solid objects that will be a minimum of 12" below subgrade shall be excepted. Topsoil shall be excavated and stockpiled for use in backfilling.

Substances encountered within the limits of the project shall be excavated to the required lines and grades. All excavation shall be accomplished in such a manner as to allow adequate drainage. Suitable material removed from the excavations shall be used for embankments, backfilling, and such other purposes as directed by the engineer. If material encountered within the limits of the work is considered unsuitable, it shall be excavated and replaced with suitable material. All unsuitable material and any excavated material not required for embankments and backfilling shall be disposed of by the contractor.

All soft and yielding material and other portions of the subgrade that will not compact readily shall be removed and replaced with suitable material. The subgrade shall be brought to a firm and unyielding condition with a uniform density meeting the criteria established by the engineer.

Concrete shall not be placed on a soft, spongy, frozen, or otherwise unsuitable subgrade. The subgrade shall be moist when the concrete is placed.

All excess concrete and debris shall be removed from the excavation before backfilling. All disturbed areas shall be graded in a neat, workmanlike manner. All such areas are required to be hand-raked.

BASE COURSE

Provide 4" (Minimum) thick granular base course and compact to receive concrete as approved by the engineer.

MATERIALS

Concrete shall be composed of portland cement, aggregates, and water. Air entrainment shall be provided with air-entraining portland cement or by adding an air-entraining agent.

Cement shall conform to the following specifications: Portland Cement AASHTO M85 or ASTM C150; Air-Entraining Portland Cement, AASHTO M134 or ASTM C175.

CONCRETE SIDEWALKS
CS-2

Fine aggregate shall conform to the requirement of Missouri State Highway specifications Section 1005.2, gradation in accordance with Section 1005.2.4.1. Coarse aggregate shall conform to the requirements of Missouri State Highway Specifications Section 1005.1, Aggregate No. 3, Gradation B.

Water used in mixing or curing shall be reasonably clean and free of oil, salt, acid, alkali, sugar, vegetable matter, or other substance injurious to the finished product.

No admixtures (except for air-entrainment) shall be used in the concrete without prior approval, and all approved admixtures shall meet applicable Missouri State Highway Department requirements. Air-entraining agents shall meet requirements of Missouri State Highway Department specification Section 1054 (AASHO M154).

Preformed fillers for joints shall conform to the requirements of AASHO M213.

Curing material shall conform to Missouri State Highway Department specifications Section 1055, paragraph 1055.1, Type 2 (white pigmented liquid, membrane forming compound).

CONCRETE

Each cubic yard of concrete shall contain 564 lb. (6.0 bags) of cement plus or minus 2 percent. The water-cement ration by weight (pounds of water per pound of cement) shall not exceed 0.49 (5.5 gal. per bag of cement). Below this limit, the quantity of water shall be adjusted to give a slump of between 1-1/2 and 3 inches. The concrete shall contain 6% (+ 1-1/2%) entrained air.

The mix shall provide concrete having a 28 day compressive strength of 4000 psi.

Ready mixed concrete shall be mixed and delivered in accordance with requirements of AASHO M157. The mixer shall be operated at the drum speed shown on the manufacturer's name plate. The batch shall be so charged into the drum that a portion of the mixing water shall enter in advance of the cement and aggregates. The flow of water shall be uniform, and all water shall be in the drum by the end of the first 15 seconds of mixing period. Mixed concrete shall be transported in truck mixers. No more than 60 minutes shall elapse from the time water is added to the mix until the concrete is deposited in place at the site of the work. Retempering concrete by adding water or by other means shall not be permitted.

FORMS

Forms shall be of such cross-section and strength and so secured as to resist the pressure of the concrete when placed. The method of connection between sections

shall be such that the joints shall not move in any direction. The maximum deviation of the top surface shall not exceed 1/8 inch in 10 feet or the inside face not more than 1/4 inch in 10 feet from a straight line.

The base under the forms shall be compacted and graded so that the form when set will be uniformly supported for its entire length at the required elevation. The supply of forms shall be sufficient to permit their remaining in place for at least 12 hours after the concrete has been placed.

PLACING AND FINISHING

The concrete shall be deposited on the base course in such manner as to require as little rehandling as possible. Necessary hand spreading shall be done with shovels, not rakes. Concrete shall be thoroughly consolidated against and along the face of all forms. In general, adding water to the surface of the concrete to assist in finishing operations shall not be permitted. If it is permitted, it shall be applied as a fog spray with approved spray equipment. Before final finishing is completed and before the concrete has taken its initial set, the edges and all joints of the sidewalk shall be carefully finished with an edger.

All work shall be floated, steel troweled, and shall have a broomed finish with texture as directed by the engineer.

The contractor shall have always available materials to protect the surface of the plastic concrete against rain.

CURING

Concrete shall be cured by protecting it against loss of moisture, rapid temperature change, and mechanical injury for at least three days after placement. After finishing operations have been completed, the entire surface of the newly placed concrete shall be covered by white pigmented membrane. Membrane shall be applied after all free water has disappeared from the surface. Complete and uniform covering at the rate of 200 sq.ft. per gallon shall be required. The compound shall be kept agitated to prevent the pigment from settling. The edges of concrete slabs exposed by the removal of forms shall be protected immediately.

The contractor shall have the equipment needed for curing at hand and ready to install before actual concrete placement begins.

JOINTS

Contraction Joints shall be provided at uniform spacing on not greater than 5'-0" centers. Contraction joints shall consist of planes of weakness created by forming or cutting grooves in the surface of the concrete. Joints shall be not less than 1" deep.

CONCRETE SIDEWALKS
CS-4

605473

Expansion Joints shall be provided at driveways, curbs, curb cuts and other locations where sidewalk abuts fixed structures. Provide 1/4" thick expansion joint material.

QUALITY CONTROL

The engineer may arrange for concrete quality tests during the progress of the work. The cost of such testing will be borne by the City of Neosho and is not to be included in the contract except that cost of tests which reveal deficiencies in concrete strength or improper air content in the concrete shall be borne by the contractor. In the event that deficiencies are indicated by testing, the contractor shall arrange for and pay all costs of additional testing as may be required to determine extent of such deficiencies, all to the satisfaction of the engineer. Payment for installed work not meeting specifications will become a subject for negotiation between the contractor and the City of Neosho.

Testing, where required, shall be performed by methods specified in the Missouri State Highway Specifications for such work.

BOND

The City shall have the right, prior to signing of the Contract, to require the Contractor to furnish bond covering the faithful performance of the contract and the payment of all obligations arising thereunder, in such form as the City may prescribe and with such surety as the City may approve. If such bond is required by instructions given previous to the submission of proposals, the premium shall be paid by the Contractor; if subsequent thereto, it shall be paid by the City.

CONTRACTOR'S LIABILITY INSURANCE

The Contractor shall purchase and maintain at its own cost and expense such insurance as will protect him and the City of Neosho from claims set forth below with limits of not less than \$100,000 per person in any one accident; and \$250,000 for any one accident; and Public Property Damage Liability insurance with limits of not less than \$50,000, which may arise out of or result from the Contractor's operations under the Contract, whether such operations be by himself or by any Sub-contractor or by anyone directly or indirectly employed by any of them, or by anyone for whose acts any of them may be liable:

1. Claims under workmen's compensation, disability benefit and other similar employee benefit acts;
2. Claims for damages because of bodily injury, occupational sickness or disease; or death of his employees;
3. Claims for damages because of bodily injury, sickness or disease, or death of any person other than his employees;

CONCRETE SIDEWALKS
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4. Claims for damages insured by usual personal injury liability coverage which are sustained (1) by any person as a result of an offense directly or indirectly related to the employment of such person by the Contractor, or (2) by any other person; and
5. Claims for damages because of injury to or destruction of tangible property, including loss of use resulting therefrom.

Certificates of Insurance acceptable to the Owner (City of Neosho) shall be filed with the Owner prior to commencement of the work. These Certificates shall contain a provision that coverages afforded under the policies will not be cancelled until at least fifteen days' prior written notice has been given to the Owner.

005475

CITY OF NEOSHO, MISSOURI
SPECIFICATIONS
FOR
PORTLAND CEMENT CONCRETE PAVING

GENERAL PROVISIONS

This work shall consist of the construction of a 7' thick rigid pavement composed of portland cement concrete on a prepared subgrade in accordance with these specifications and in reasonably close conformity with the lines and grades established by the Director of Public Works of the City of Neosho, Missouri. Paving work shall be in accordance with typical details included herewith.

Distributed steel reinforcement (welded wire fabric) may be required in portions of the work as determined by the engineer. Where such reinforcement is installed, payment will be in addition to the contract amount.

The intent of the contract is to provide for the construction and completion in every detail of the work described. The bidder is expected to examine carefully the site of the work and all documents pertaining to its construction in order to verify the work conditions and requirements. The contractor shall furnish all labor, materials, equipment, tools, transportation, and supplies required to complete the work in accordance with the terms of the contract.

The "engineer" shall be that person so designated by the Director of Public Works. The engineer will decide all questions which may arise concerning quality and acceptability of materials furnished, manner of performance and rate of progress of the work, interpretation of documents relating to the work, and acceptable fulfillment of the contract by the contractor. Suspension of the work may be ordered by the engineer if deemed to be in the public interest. Where this specification requires the contractor to employ "approved" materials or methods, approval shall be obtained from the engineer.

The contractor shall provide, erect, and maintain all necessary barricades, suitable and sufficient lights, danger signals, signs, and other traffic control devices. He shall take all necessary precautions to protect the work and to safeguard the public. Streets closed to traffic shall be protected by effective barricades, and obstructions shall be illuminated during hours of darkness. Suitable warning signs shall be provided to control and direct traffic properly.

July 1, 1975

STREET STANDARDS
PC-1

The contractor shall be responsible for preserving all public and private property. He shall protect from disturbance or damage all land monuments and property marks until the engineer has witnessed or otherwise referenced their location.

During the prosecution of the work, the contractor shall be responsible for all damage or injury to any property that results from any act, omission, neglect, or misconduct in his execution of the work. He shall be responsible for all damage or injury due to defective work or materials. Repair or replacement of damaged or injured property shall be at the contractor's expense and shall be similar or equal to that existing before such damage or injury occurred.

The contractor shall set construction stakes establishing lines and grades for street work and for structures; he shall stake out the centerline and shall obtain approval of all such work from the engineer prior to proceeding with paving work.

Any work not covered in these specifications shall be accomplished in accordance with the current standards and specification of the Missouri State Highway Commission.

EARTHWORK

All surface objects and all trees, stumps, roots, and other protruding obstructions not designated to remain shall be cleared and grubbed, and mowed as required. Undisturbed stumps and roots and nonperishable solid objects that will be a minimum of 18 inches below subgrade or slope of embankments shall be excepted. Topsoil shall be excavated and stockpiled for use in backfilling behind curbs.

Substances encountered within the limits of the project shall be excavated to the required lines and grades. All excavation shall be accomplished in such a manner as to allow adequate drainage. Suitable material removed from the excavations shall be used for embankments, backfilling, and such other purposes as directed by the engineer. If material encountered within the limits of the work is considered unsuitable, it shall be excavated and replaced with suitable material. All unsuitable material and any excavated material not required for embankments and backfilling shall be disposed of by the contractor.

Embankments shall be constructed by placing and compacting materials of acceptable quality following the required lines, grades, and cross-sections. Before any embankment is placed, all trees, sod, and topsoil over the entire area shall be cleared. Each layer of embankment material shall not exceed 6 inches in compacted depth. It shall be disked sufficiently to break down oversized clods and thoroughly mix all materials. Each layer shall be uniformly compacted at optimum moisture by roller or vibratory equipment suitable for the type of material encountered.

Borrow shall consist of approved material required for constructing embankments or for other portions of the work, and shall be obtained from approved sources. The contractor shall arrange to obtain borrow and shall pay all costs involved.

All soft and yielding material and other portions of the subgrade that will not compact readily when rolled or tamped shall be removed and replaced with suitable material. The subgrade shall be brought to a firm and unyielding condition with a uniform density meeting the criteria established by the engineer. It shall be compacted at or slightly above the optimum moisture content. Moisture content may be evaluated by squeezing a ball of damp soil in the hand. If the ball crumbles easily, additional water shall be mixed into the soil. If free water comes to the surface when kneaded, the subgrade shall be dried before final compaction.

All utility trenches and structure excavations shall be backfilled to natural or finished grade with soils like those surrounding the trench as soon as conditions permit. All backfill shall be compacted with mechanical tampers in layers of not over 6 inches in compacted thickness.

Concrete shall not be placed on a soft, spongy, frozen, or otherwise unsuitable subgrade. The subgrade shall be moist when the concrete is placed.

Before placing concrete, the subgrade shall be tested for conformity with the required cross-section using an approved templet. If necessary, material shall be removed or added to bring all portions of the subgrade to the correct elevation. It shall then be thoroughly compacted and again tested with the templet.

The finished subgrade shall be kept smooth and compacted until the concrete has been placed. Construction equipment shall not operate in the paving lane when conditions of the job will permit operation from outside the lane. Trucks shall not operate from previously paved lanes until the pavement is at least 7 days old. If equipment operating in the paving lane causes rutting or displacement of the subgrade material, lighter trucks or suitable runways shall be repaired to the satisfaction of the engineer.

All excess concrete and debris shall be removed from the excavation behind the curbline before backfilling. The area between the curb and sidewalk, or property line where no sidewalks exist, shall be graded in a neat, workmanlike manner. All such areas are required to be hand-raked.

MATERIALS

Concrete shall be composed of portland cement, aggregates, and water. Air entrainment shall be provided with air-entraining portland cement or by adding an air-entraining agent.

Cement shall conform to the following specifications: Portland Cement, AASHO M85 or ASTM C150; Air-Entraining Portland Cement, AASHO M134 or ASTM C175.

Fine aggregate shall conform to the requirement of Missouri State Highway specifications Section 1005.2, gradation in accordance with Section 1005.2.4.1. Coarse aggregate shall conform to the requirements of Missouri State Highway Specifications Section 1005.1, Aggregate No. 3, Gradation B.

Water used in mixing or curing shall be reasonably clean and free of oil, salt, acid, alkali, sugar, vegetable matter, or other substance injurious to the finished product.

No admixtures (except for air-entrainment) shall be used in the concrete without prior approval, and all approved admixtures shall meet applicable Missouri State Highway Department requirements. Air-entraining agents shall meet requirements of Missouri State Highway Department Specification Section 1054 (AASHO M154).

Welded-steel wire fabric shall conform to the requirements of ASTM A185. Fabric shall be 6" x 6", No. 6 x No. 6 wire.

Deformed bars shall conform to the requirements of ASTM A15.

Poured filler for joints shall conform to the requirements of AASHO M173 or ASTM D1190. Preformed fillers for joints shall conform to the requirements of AASHO M213.

Curing material shall conform to Missouri State Highway Department specifications Section 1055, paragraph 1055.1, Type 2, (white pigmented, liquid, membrane forming compound).

CONCRETE

Each cubic yard of concrete shall contain 564 lb. (6.0 bags) of cement plus or minus 2 percent. The water-cement ration by weight (pounds of water per pound of cement) shall not exceed 0.49 (5.5 gal. per bag of cement). Below this limit, the quantity of water shall be adjusted to give a slump of between 1½ and 3 inches, if not vibrated, or between ½ and 1½ inches if vibrated. The concrete shall contain 6% ($\pm 1\%$) entrained air.

The mix shall provide concrete having a 28 day compressive strength of 4000 psi and a 28 day flexural strength of 650 psi (center-point loading method).

Aggregates shall be handled in such manner as to secure a uniform grading of the material. Aggregates that have become segregated or mixed with earth or foreign material shall not be used. The fine aggregate and coarse aggregate shall be separately weighed. Cement shall be measured by weight. Water may be measured

either by volume or by weight. The accuracy of measuring the water shall be within a range of error of not over 1 percent. Batches shall be delivered to the mixer separate and intact, without loss of cement and without spilling of material from one batch into another. Batching shall be so conducted as to result in the weights of each material required within a tolerance of 1 percent for cement and 2 percent for aggregates.

Ready mixed concrete shall be mixed and delivered in accordance with the requirements of AASHTO M157. The mixer shall be operated at the drum speed shown on the manufacturer's name plate. The batch shall be so charged into the drum that a portion of the mixing water shall enter in advance of the cement and aggregates. The flow of water shall be uniform, and all water shall be in the drum by the end of the first 15 seconds of mixing period. Mixed concrete shall be transported in truck mixers. No more than 60 minutes shall elapse from the time water is added to the mix until the concrete is deposited in place at the site of the work. Retempering concrete by adding water or by other means shall not be permitted.

FORMS

Forms shall be of such cross-section and strength and so secured as to resist the pressure of the concrete when placed and the impact and vibration of any equipment which they support, without springing or settlement. The method of connection between sections shall be such that the joints shall not move in any direction. The maximum deviation of the top surface shall not exceed 1/8 inch in 10 feet or the inside face not more than 1/4 inch in 10 feet from a straight line.

The subgrade under the forms shall be compacted and cut to grade so that the form when set will be uniformly supported for its entire length at the required elevation. The supply of forms shall be sufficient to permit their remaining in place for at least 12 hours after the concrete has been placed.

PLACING AND FINISHING

The concrete shall be deposited on the grade in such manner as to require as little rehandling as possible. Placing shall be continuous between transverse joints without the use of intermediate bulkheads. Necessary hand spreading will be done with shovels, not rakes. Workmen shall not be allowed to walk in the freshly mixed concrete with boots or shoes coated with earth or foreign substances.

Concrete shall be thoroughly consolidated against and along the faces of all forms and along the full length and on both sides of all joint assemblies. Vibrators shall not be permitted to come in contact with a joint assembly, the grade, or a side form. The vibrator shall never be operated longer than 15 seconds in any one location.

The sequence of operations shall be the strike-off and consolidation, floating if necessary, straightedging, and final surface finish. The pavement may be struck off and consolidated with a mechanical finishing machine, vibrating screed, or by hand-finishing methods.

In general, adding water to the surface of the concrete to assist in finishing operations shall not be permitted. If it is permitted, it shall be applied as a fog spray with approved spray equipment. The use of long-handled wood floats shall be confined to a minimum; they may be used only in emergencies and in areas not accessible to finishing equipment. Before final finishing is completed and before the concrete has taken its initial set, the edges of the slab and curb shall be carefully finished with an edger.

All pavement shall have a broomed finish with texture as directed by the engineer.

Integral curbs shall be formed to the required cross-section immediately after the pavement finishing operation. Curbs shall be formed to a minimum radius of 20'-0' unless otherwise directed by the engineer.

The contractor shall have always available materials to protect the surface of the plastic concrete against rain. These materials shall consist of burlap, cotton mats, curing paper, or plastic sheeting.

CURING

Concrete shall be cured by protecting it against loss of moisture, rapid temperature change, and mechanical injury for at least five days after placement. After finishing operations have been completed, the entire surface of the newly placed concrete shall be covered by white pigmented membrane. Membrane shall be applied after all free water has disappeared from the surface. Complete and uniform coverage at the rate of 200 sq. ft. per gallon shall be required. The compound shall be kept agitated to prevent the pigment from settling. The edges of concrete slabs exposed by the removal of forms shall be protected immediately.

The contractor shall have the equipment needed for curing at hand and ready to install before actual concrete placement begins.

JOINTS

Transverse Contraction Joints shall be provided at not greater than 15'0" centers. Transverse contraction joints shall consist of planes of weakness created by forming or cutting grooves in the surface of the pavement and shall be constructed by one of the following methods:

1. Formed grooves shall be made by depressing an approved tool or device into the plastic concrete. The tool or device shall remain in place until the concrete has attained its initial set and shall then be removed without disturbing adjacent concrete.
2. Sawed contraction joints shall be created by sawing grooves in the surface of the pavement with an approved concrete saw. After each joint is sawed, the saw cut and adjacent concrete surface shall be thoroughly cleaned.

Sawing of the joints shall begin as soon as the concrete has hardened sufficiently to permit sawing without excessive raveling, usually 4 to 24 hours. All joints shall be sawed before uncontrolled shrinkage cracking occurs. If necessary, the sawing operations shall be carried on both day and night, regardless of weather conditions. A standby saw shall be available in the event of breakdown.

The sawing of any joint shall be omitted if a crack occurs at or near the joint location before the time of sawing. Sawing shall be discontinued if a crack develops ahead of the saw. In general, all joints shall be sawed in sequence. If extreme conditions make it impracticable to prevent erratic cracking by early sawing, the construction joint groove shall be formed before initial set of concrete, as provided above.

Depth of transverse contraction joints shall be not less than one-fourth the depth of the slab and shall be continuous through integral curbs.

Transverse Construction Joints shall be placed whenever the placing of concrete is suspended for more than 30 minutes. A keyed joint shall be used if the joint occurs at the location of a contraction joint. Keyed joints with tiebars shall be used if the joint occurs at any other location.

Expansion Joints. Provide thickened edge (undoweled) expansion joints at perimeter of pavement where pavement abuts buildings, manholes, and other fixed structures. Provide transverse expansion joints in locations where a run of pavement is intersected by other paved streets, alleys, or drives. The expansion joint filler shall be continuous from form to form, shaped to the pavement profile. Care shall be exercised to maintain continuity of the filler so that concrete plugs do not occur in the expansion space.

The expansion joint filler shall be held in position to ensure proper grade and alignment during placing and finishing of the concrete.

Longitudinal Contraction Joints. Longitudinal contraction joints are required in pavement exceeding 12'-6" width, as indicated by typical details. Longitudinal contraction joints shall consist of planes of weakness created by forming or cutting grooves in the surface of the pavement. They shall be equal to at least one quarter the depth of the slab.

1. Sawed longitudinal joints shall be sawed grooves made with a concrete saw after the concrete has hardened. The joint may be sawed at any time before use by construction traffic or before opening if construction traffic does not use the pavement.
2. Longitudinal formed groove joints are formed in the same manner as transverse formed groove joints.

Longitudinal Construction Joints. Where pavement width exceeds 25'-0", provide keyed longitudinal construction joints as indicated by typical details. The key shall be constructed by forming when the first lane adjacent to the joint is placed. These joints shall be finished with an edger. When placing the second slab, concrete must not be left overhanging the lip formed in the first slab by the edging tool.

Sealing Joints. Joints shall be filled with joint-sealing material before the pavement is opened to traffic and as soon after completion of the curing period as is feasible. Just before sealing, each joint shall be thoroughly cleaned of all foreign material, including membrane curing compound, and the joint faces shall be clean and surface-dry when the seal is applied. Material for seal applied hot shall be stirred during heating to prevent localized overheating. The joint filling shall be done without spilling material on the exposed surfaces of the concrete pavement. Any excess material on the surface of the concrete pavement shall be removed immediately and the pavement surface cleaned. The use of sand or similar material to cover the seal shall not be permitted.

OPENING TO TRAFFIC

Pavement shall not be opened to traffic until 14 days after the concrete was placed. Before opening to traffic, the pavement shall be cleaned.

QUALITY CONTROL

The engineer may arrange for concrete quality and pavement thickness tests during the progress of the work. The cost of such testing will be borne by the City of Neosho and is not to be included in the contract except that cost of tests which reveal deficiencies in concrete strength or pavement thickness, or improper air content in the concrete shall be borne by the contractor. In the event that deficiencies are indicated by testing, the Contractor shall arrange for and pay

all costs of additional testing as may be required to determine extent of such deficiencies, all to the satisfaction of the engineer. Payment for installed paving work not meeting specifications will become a subject for negotiation between the Contractor and the City of Neosho.

Testing, where required, shall be performed by methods specified in the Missouri State Highway Specifications for such work.

BOND

The City shall have the right, prior to signing of the Contract, to require the Contractor to furnish bond covering the faithful performance of the contract and the payment of all obligations arising thereunder, in such form as the City may prescribe and with such surety as the City may approve. If such bond is required by instructions given previous to the submission of proposals, the premium shall be paid by the Contractor; if subsequent thereto, it shall be paid by the City.

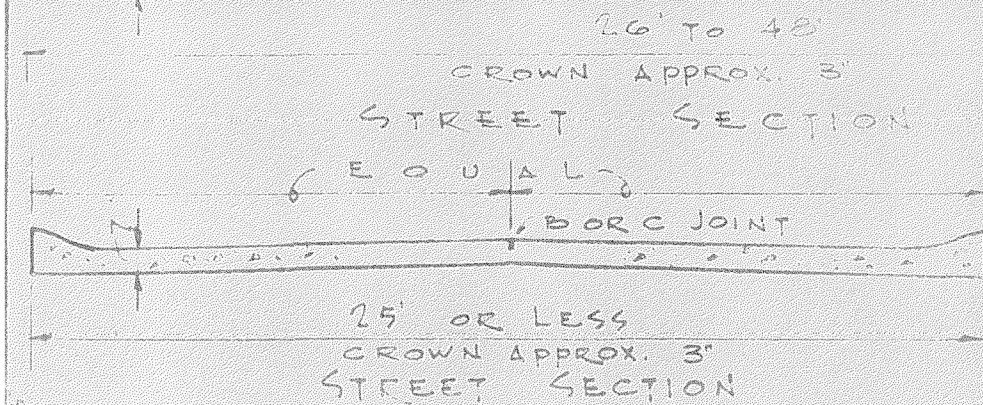
CONTRACTOR'S LIABILITY INSURANCE

The Contractor shall purchase and maintain at its own cost and expense such insurance as will protect him and the City of Neosho from claims set forth below with limits of not less than \$100,000 per person in any one accident; and \$250,000 for any one accident; and Public Property Damage Liability insurance with limits of not less than \$50,000, which may arise out of or result from the Contractor's operations under the Contract, whether such operations be by himself or by any Sub-contractor or by anyone directly or indirectly employed by any of them, or by anyone for whose acts any of them may be liable:

1. Claims under workmen's compensation, disability benefit and other similar employee benefit acts;
2. Claims for damages because of bodily injury, occupational sickness or disease; or death of his employees;
3. Claims for damages because of bodily injury, sickness or disease, or death of any person other than his employees;
4. Claims for damages insured by usual personal injury liability coverage which are sustained (1) by any person as a result of an offense directly or indirectly related to the employment of such person by the Contractor, or (2) by any other person; and
5. Claims for damages because of injury to or destruction of tangible property, including loss of use resulting therefrom.

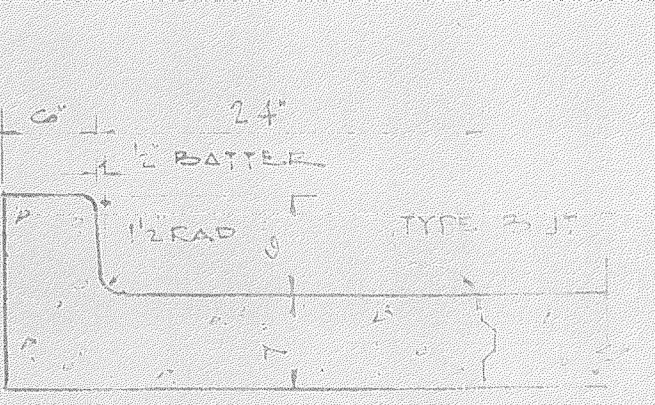
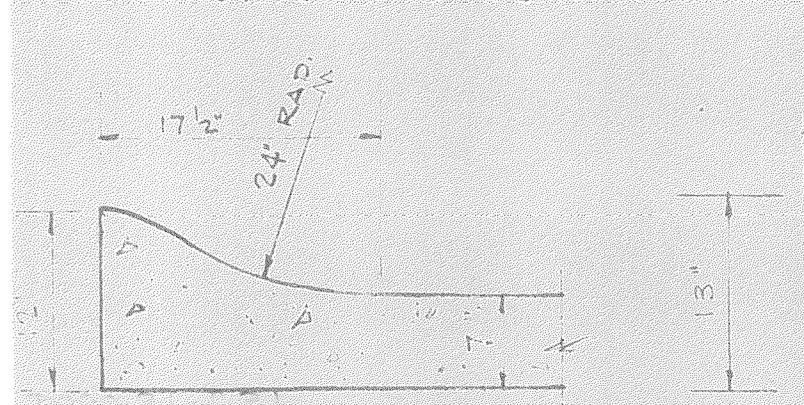
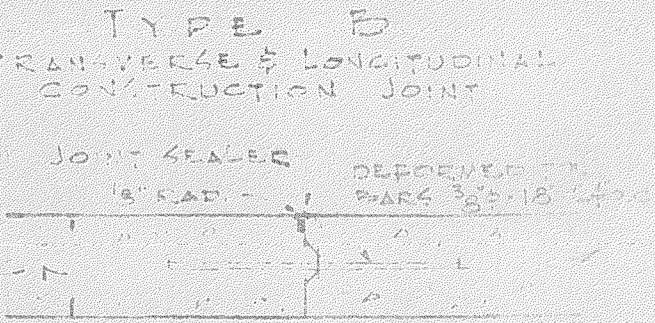
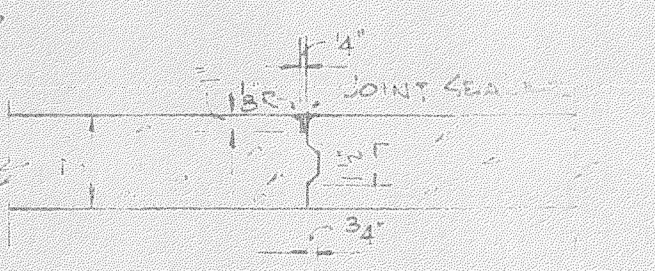
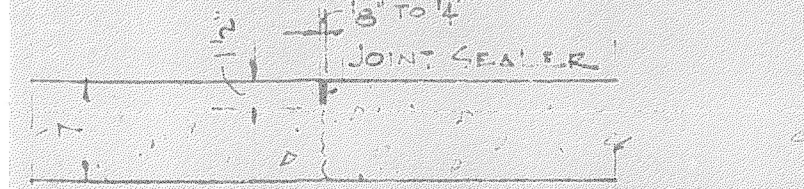
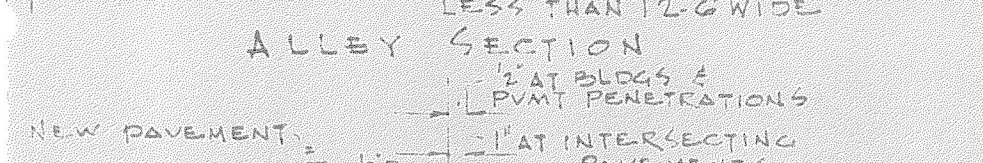
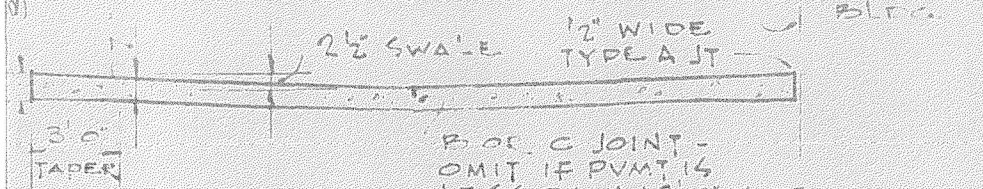
Certificates of Insurance acceptable to the Owner (City of Neosho) shall be filed with the Owner prior to commencement of the work. These certificates shall contain a provision that coverage afforded under the policies will not be cancelled until at least fifteen days' prior written notice has been given to the Owner.

005434



NOTE -

THICKEN PVMT TO 8" AT ALL FREE EDGES WHERE CURB DOES NOT OCCUR. TAPER TO START 3' 0" (MIN) FROM FREE EDGE.



INTEGRAL CURB DETAIL SEPARATELY CAST CURB