CONTRACT DOCUMENTS
AND
SPECIFICATIONS
FOR
PROJECT NO. 173120 T.O. 21
FEMA FLOOD DAMAGE PROJECTS
115010, 116205, 117880, 126333, 126335, 126336

ATTENDANCE AT PRE-BID CONFERENCE IS MANDATORY

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CITY OF
Tulsa
A New Kind of Energy™

PAUL D. ZACHARY, P.E., DIRECTOR
ENGINEERING SERVICES DEPARTMENT

Account Numbers: 2031F00005.StrmSewer.Flood.5618.56183122-541101

Engineering Services Department
2317 South Jackson Avenue
Tulsa, Oklahoma 74107
(918) 596-9565
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Published in the Tulsa World and The Oklahoma Eagle:
January 8, 11, 12, 13, 14, and 15, 2021

NOTICE TO BIDDERS
SEALED BIDS FOR
PROJECT NO. 173120 T.O. 21

Notice is hereby given that pursuant to an order by the
Mayor of the City of Tulsa, Oklahoma, sealed bids will be
received in Room 260 of the Office of the City Clerk, City of
Tulsa, 175 E. 2nd Street, Tulsa, Oklahoma 74103 until 8:30
a.m. the 12th day of February, 2021 for furnishing all
tools, materials and labor and performing the work
necessary to be done in the construction of the following:

PROJECT NO. 173120 T.O. 21 FEMA FLOOD DAMAGE
PROJECTS 115010, 116205, 117880, 126333, 126335,
126336

The entire cost of the improvement shall be paid from
Account No.
2031F00005.Strm.Sewer.Flood.5618.56183122-541101

A MANDATORY Pre-Bid Conference is scheduled for
Tuesday, January 19, 2021 at 9:30 a.m. and will be held
through video conferencing with Microsoft Teams,
invitation presented on the City of Tulsa's website at this
ink:
https://www.cityoftulsa.org/government/departments/engineering-services/construction-bids/
173120 T.O. 21 FEMA FLOOD DAMAGE PROJECTS
115010, 116205, 117880, 126333, 126335, 126336

Attendance at the Pre-Bid Conference is MANDATORY.
Bids will not be received from contractors who did not
attend the Pre-Bid Conference.

Bids will be accepted by the City Clerk from the holders of
valid pre-qualifications certificates from the City of Tulsa in
one or more of the following classifications: A, C, or D

Drawings, specifications and contract documents for
construction of said public improvements of the said
project have been adopted by the Mayor of said City.
Copies of same may be obtained at the Office of the
Director of Engineering Services at the City of Tulsa
Engineering Services, 2317 South Jackson, Room 103,
North Building, for a non-refundable fee in the amount of
$50.00 made payable to the City of Tulsa by check or
money order.

Contract requirements shall include compliance as
required by law pertaining to the practice of non-
discrimination in employment.

NTB- 1
The overall aspirational Small Business Enterprise utilization goal for this project is ten (10) percent.

Attention is called to Resolution No. 18145 of August 23, 1988, requiring bidders to commit to the goal of employing on the project at least fifty percent bona fide residents of the City of Tulsa and/or MSA in each employment classification.

Attention is called to Resolution 7404 of November 8, 2006, requiring bidders, their subcontractors and their lower-tier subcontractors to hire only citizens of the United States.

The City of Tulsa itself is exempt from the payment of any sales or use taxes, and pursuant to Title 68 O.S. Section 1356(10), direct vendors to the City are also exempt from those taxes. A bidder may exclude from his bid appropriate sales taxes, which he will not have to pay while acting for and on behalf of the City of Tulsa.

A Certified or Cashier's Check or Bidders Surety Bond, in the sum of 5% of the amount of the bid will be required from each bidder to be retained as liquidated damages in the event the successful bidder fails, neglects or refuses to enter into said contract for the construction of said public improvements for said project and furnish the necessary bonds within thirty days from and after the date the award is made.

The bidder to whom a contract is awarded will be required to furnish public liability and workmen's compensation insurance; Performance, Statutory, and Maintenance bonds acceptable to the City of Tulsa, in conformity with the requirements of the proposed contract documents. The Performance, Statutory, and Maintenance bonds shall be for one hundred percent (100%) of the contract price.

All bids will be opened and considered by the Bid Committee of said City at a meeting of said Committee to be held in the City Council Room of City Hall in said City at 9:00 a.m. on the 12th day of February 2021.

Dated at Tulsa, Oklahoma, this 8th day of January 2021.

(SEAL)

Christina Chappell
City Clerk
INSTRUCTIONS TO BIDDERS

B-1. BIDS

Each bid Proposal shall be completed electronically on the electronic media provided, then printed, signed and submitted along with the electronic media and the complete bound copy of the contract documents. In the event of a discrepancy between the pricing on the electronic media and hard copy of a Proposal, the hard copy pricing will govern. If electronic media is not provided and the bid Proposal is manual, the bid Proposal shall be submitted in ink. The written words shall govern over the figures if there is a difference between the two. No alterations, additions, or erasures shall be made on the Proposal. Erroneous entries shall be lined out, initialed by the bidder, and the correct entry inserted. The unit price bid must cover all expense for furnishing the labor, materials, tools, equipment, and apparatus of every description to construct, erect, and furnish all work required by and in conformance with the Drawings and Specifications.

Each bid shall be enclosed in a sealed envelope addressed to the City of Tulsa, 175 E. 2nd Street, Room 260, City Hall, Tulsa, Oklahoma, identified on the outside with the words:

PROJECT NO. 173120 T.O. 21 FEMA FLOOD DAMAGE PROJECTS 115010, 116205, 117880, 126333, 126335, 126336

Pre-qualification Certificate Number ____________.

And shall be filed with the City Clerk in Room 260, City Hall.

All addenda to the contract documents, properly signed by the bidder, shall accompany the bid when submitted.

B-2. BID SECURITY

Each bid shall be accompanied by a cashier’s check, a certified check, or bidder’s bond, in the amount of five percent (5%) of the total amount bid.

The bid security shall be made payable, without condition, to the City of Tulsa, Oklahoma. The bid security may be retained by and shall be forfeited to the City as liquidated damages if the bid is accepted, a contract based thereon is awarded, and the bidder fails to enter into a contract in the form prescribed, with legally responsible sureties, within thirty (30) days after such award is made by the City.

B-3 RETURN OF BID SECURITY

The bid security of each unsuccessful bidder will be returned when his bid is rejected. The bid security of the bidder to whom the contract is awarded will be returned when he executes a contract and files satisfactory bonds. The bid
security of the second lowest responsible bidder may be retained for a period of time not to exceed sixty (60) days pending the execution of the contract and bonds by the successful bidder.

**B-4 WITHDRAWAL OF BIDS**

No bidder may withdraw his bid for sixty (60) days after the date and hour set for the opening. A bidder may withdraw his bid any time prior to expiration of the period during which bids may be submitted by making a written request signed in the same manner and by the same person who signed the Proposal.

**B-5 REJECTION OF BIDS**

Bids received more than ninety-six (96) hours before the time set for opening bids, excluding Saturdays, Sundays, and holidays, as well as bids received after the time set for opening bids, will not be considered and will be returned unopened.

The City of Tulsa reserves the right to reject any and all bids when such rejection is in the best interest of the City of Tulsa. All bids are received subject to this stipulation and the City reserves the right to decide which bidder shall be deemed lowest responsible bidder.

A violation of any of the following provisions by the bidder shall be sufficient reason for rejecting his bid, or shall make any contract between the City of Tulsa and the Contractor that is based on his bid, null and void: divulging the information in said bid before the bids have been opened; submission of a bid which is incomplete, unbalanced, obscure, incorrect, or which has conditional clauses, additions, or irregularities of any kind not in the original proposal form, or which is not in compliance with the Instruction to Bidders and published Notice to Bidders, or which is made in collusion with another bidder. The City shall have the right to waive any immaterial defects or irregularities in any bid received.

**B-6 DISQUALIFICATION OF BIDDERS**

No contract will be awarded to any person or persons, firm, partnership, company, or corporation which is in arrears to the City upon any debt of contract, or in default as surety or otherwise upon any obligation to the City.

**B-7 SIGNATURE OF BIDDERS**

Each bid shall be properly signed with the full name of the company or individual submitting the bid, the bidder’s address, and the name and title of all persons signing printed below their signature lines. Bids by partnerships shall be signed with the partnership name followed by the signature and title of one of the partners. Bids by corporations shall be signed with the name of the corporation followed by the signature and title of the president, vice president, chairman, or vice chairman of the Board of Directors with attestation by the corporate secretary or assistant corporate secretary. **Resolution must be dated no more than 30 days prior to date of signature of the contract/bond etc.** Bids by
joint ventures shall be signed by each participant in the joint venture. Bids by limited liability companies shall be signed with the name of the limited liability company followed by the signature and title of the Manager or Managing Member. Bid by limited partnerships shall be signed with the name of the limited partnership followed by the signature of the general partner. Note: The signature requirements listed above are for Oklahoma entities; entities organized in other states must follow the law of the state in which they are organized.

A bid by a person who affixes to his signature the word “President”, “Manager”, “General Partner”, “Agent”, or other title, without disclosing the name of the company for which he is signing, may be held to be the bid of the individual signing.

B-8 INTERPRETATION OF CONTRACT DOCUMENTS

If any person who contemplates submitting a bid is in doubt as to the true meaning of any part of the drawing, specifications, or other proposed contract documents, he may submit to the Engineer a written request for interpretation thereof. The person submitting the request shall be responsible for its prompt delivery. Interpretation of the proposed contract documents will be made only by addendum. A copy of each addendum will be mailed or delivered to each person obtaining a set of contract documents from the Engineer. The City will not be responsible for any other explanations or interpretations of the proposed contract documents.

B-9 LOCAL CONDITIONS AFFECTING WORK

Each bidder shall visit the site of the work and shall completely inform himself relative to construction hazards and procedure, labor, and all other conditions and factors, local and otherwise, which would affect prosecution and completion of the work and its cost. Such considerations shall include the arrangement and condition of existing structures and facilities, the procedure necessary for maintenance of uninterrupted operation of existing structures and facilities, the availability and cost for labor, and facilities for transportation, handling, and storage of materials and equipment. All such factors shall be properly investigated and considered in the preparation of the bid. There will be no subsequent financial adjustment for lack of such prior information.

B-10 TIME OF COMPLETION

The time of completion is an essential part of the contract and it will be necessary for each bidder to satisfy the City of his ability to complete the work within the allowable time set forth in the Bid Form. In this connection, attention is directed to the provisions of the General Conditions and Special Conditions relative to delays, extension of time, and liquidated damages.

B-11 QUALIFICATION OF BIDDERS
No bid will be received and filed by the City Clerk of the City of Tulsa unless the person submitting the bid has been pre-qualified as provided by ordinance, and is the holder of a current certificate of Pre-qualification in force and effect on the date such bid is to be submitted and filed.

**B-12 TAXES AND PERMITS**

Attention is directed to the requirements of the General Conditions regarding payment of taxes and obtaining permits. Contractor shall comply with all zoning ordinances of the City, as provided in the Tulsa Zoning Code, Title 42 Tulsa Revised Ordinances and conform with all zoning requirements established by the Tulsa Metropolitan Area Planning Commission and the Board of Adjustment. Contractor can call the Indian Nations Council of Governments (INCOG) at (918) 584-7526, to determine if any zoning requirements must be met.

**B-13 OKLAHOMA LEGAL REQUIREMENTS**

The Contractor must comply with the Oklahoma Scaffolding Law, 40 Oklahoma Statues, Sections 174 - 177, which cover erection and use of scaffolds, hoists, cranes, stays, ladders, supports, or other mechanical contrivances.

In accordance with Oklahoma Statutes, Title 68, Section 1701-1707, before commencing any work pursuant to this contract, any nonresident contractor shall give written notice by certified mail, return receipt requested, to the Oklahoma Tax Commission, the Oklahoma Employment Security Commission, the Workers Compensation Court, and the county assessor of each county in which work will be performed. The notices shall comply with the requirements set forth in said statute.

**B-14 BONDS**

The bidder to whom a contract is awarded will be required to furnish bonds as follows:

- **Performance Bond** – A Performance Bond to the City in an amount equal to one hundred percent (100%) of the Contract price.
- **Statutory Bond** – A Statutory Bond to the State of Oklahoma in an amount equal to one hundred percent (100%) of the contract price.
- **Maintenance Bond** – A Maintenance Bond to the City in an amount equal to one hundred percent (100%) of the contract price.

The bonds shall be executed on the forms included in the contract documents by a surety company authorized to do business in the State of Oklahoma and acceptable as Surety to the City of Tulsa.

Accompanying the bonds shall be a “Power-of-Attorney” authorizing the attorney-in-fact to bind the Surety Company and certified to include the dates of the bonds.
B-15  BOUND COPY OF CONTRACT DOCUMENTS

The Bid Form or other pages shall not be removed from the bound copy of contract documents. The copy of contract documents filed with each bid shall be complete and shall include all items in the Table of Contents and all addenda.

B-16  EQUAL EMPLOYMENT OPPORTUNITY REQUIREMENTS

Each bidder agrees to comply with the terms of Title 5, Chapter 1, Section 111, of the Tulsa Revised Ordinances relating to Non-Discrimination.

B-17  BASIS FOR AWARD OF CONTRACT

The basis for award of a contract shall be the total base bid submitted by the lowest responsible bidder unless otherwise directed in the form of proposal. The City of Tulsa reserves the right to withhold the awarding of a contract for a reasonable period of time from the date of opening of bids. The awarding of a contract upon a successful bid shall give the bidder no right or action or claim against the City of Tulsa upon such contract until the same shall have been reduced to writing and duly signed by the contracting parties. The award of a contract will not be completed until the contract is duly executed and the necessary bonds and insurance approved.

B-18  TIME FOR AWARDING OF CONTRACT

The awarding of a contract to the lowest responsible bidder will be made within thirty (30) days after the opening of bids unless the City of Tulsa by formal recorded action and for good cause shown, provides for a reasonable extension to that period, which extension period shall not in any event exceed fifteen (15) days where only state or local funds are involved, or not to exceed ninety (90) days on any award of contract for the construction of public improvements where funds are utilized which are furnished by an agency of the federal government.

B-19  SAFETY AND HEALTH REGULATIONS

Bidders should note that they are subject to “Safety and Health Regulations for Construction”, Chapter XVII of Title 29, CFR, Part 1926 and that compliance, review and enforcement are the responsibility of the U.S. Department of Labor.

The Contractor is fully responsible for the safety of the work site and is expected to train their employees in all applicable safety issues. This should include but not be limited to: trench safety, confined space entry, head protection, etc. In accordance with construction contracts with the City, Authority, Board, or Commission, all applicable Labor and OSHA safety regulations must be followed.
Work sites must be monitored by the Contractor and safety provisions enforced. Contractors are asked to ensure that all employees are properly informed and trained in construction, work site safety.

**B-20 VENDORS AND SUBCONTRACTOR IDENTIFICATION**

Where Vendor and Subcontractor Identification Questionnaires are included in the bid documents, each bidder shall submit the Questionnaire directly to the Engineer no later than 5:00 p.m. on the first working day following the bid opening. Failure to submit the questionnaire may render the bid unresponsive and not eligible for award. The award of the Contract will be subject to the acceptability of the vendors and subcontractors listed. If an award is made, the vendors and subcontractors listed on the questionnaire shall be used on the project. No changes in the vendor and subcontractor list will be permitted unless prior consent is obtained from the Engineer.

**B-21 U.S. ENVIRONMENTAL PROTECTION AGENCY NPDES REQUIREMENTS FOR STORMWATER DISCHARGES**

The bidder’s attention is directed to U.S. Environmental Protection Agency (EPA) NPDES requirements for stormwater discharges. The Contractor shall be responsible for filing a Notice of Intent and development and implementation of a Stormwater Pollution Prevention Plan (PPP).

**B-22 AMERICANS WITH DISABILITIES ACT**

The Contractor shall take the necessary actions to ensure its facilities are in compliance with the requirements of the Americans with Disabilities Act (ADA). It is understood that the program of the Contractor is not a program or activity of the City of Tulsa. The Contractor agrees that its program or activity will comply with the requirements of the ADA. Any costs of such compliance will be the responsibility of the Contractor. Under no circumstances will the Contractor conduct any activity, which it deems non-compliant with the ADA.
RESOLUTION NO. 18145

A RESOLUTION REQUIRING THE INCLUSION IN PLANS AND SPECIFICATIONS FOR PUBLIC IMPROVEMENT CONTRACTS OF PROVISIONS PROVIDING FOR THE EMPLOYMENT OF BONA FIDE RESIDENTS OF THE CITY OF TULSA; AND/OR THE MSA; ALSO PROVIDING THAT AT LEAST OF FIFTY PERCENT (50%) OF EACH CLASS OF EMPLOYEES USED ON A PROJECT BE BONA FIDE RESIDENTS OF THE CITY OF TULSA AND/OR THE MSA; THAT THE DIRECTOR OF THE DEPARTMENT OF HUMAN RIGHTS IS CHARGED WITH ENSURING THAT ALL BIDS FOR PUBLIC CONSTRUCTION CONTRACTS COMPLY WITH THIS RESOLUTION; AND DECLARING AN EMERGENCY.

WHEREAS, City of Tulsa, Oklahoma, desires to achieve a goal of full employment.

WHEREAS, it is necessary for the protection of the health, safety and welfare of all residents of the City of Tulsa, Oklahoma, to accomplish this goal.

NOW, THEREFORE, BE IT RESOLVED BY THE BOARD OF COMMISSIONERS OF THE CITY OF TULSA, OKLAHOMA:

SECTION 1. The City of Tulsa is committed to the policy of achieving full employment of its citizens by encouraging the employment of bona fide Tulsa and MSA residents in public improvement contracts.

SECTION 2. Definitions. The definitions of certain terms used in this resolution are as follows:

a. "Bidding Documents" or "Bid" means the bid notice, plans and specifications, bidding form, bidding instructions, special provisions and all other written instruments prepared by or on behalf of an awarding public agency for use by prospective bidders on a public construction contract.

b. (i) "Bona Fide Residents" shall include only those persons who are either registered to vote in the City of Tulsa or who have resided within the city limits for at least six months, or who have purchased a permanent residence within the city limits or who have leased a residence for at least a six month term. Residency may be further determined by a valid Oklahoma driver’s license, a current Oklahoma license tag, and a valid Oklahoma automobile inspection sticker. (ii) Bona fide residents of MSA shall include only those persons who are registered to vote in outlying MSA areas or who have resided within the outlying MSA area for at least six months, or who have purchased a permanent residence within the outlying MSA areas or who have leased a residence for at least a six month term. Residency may be further determined by a valid Oklahoma driver’s license, a current Oklahoma license tag, and a valid Oklahoma automobile inspection sticker.

c. "Public Construction Contract" or "Contract" means any contract exceeding Seven Thousand Five Hundred Dollars ($7,500.00) in amount, awarded by the City of Tulsa for the purpose of making any public improvements or constructing any public building or making repairs to the same.

d. "Public Improvement" means any beneficial or valuable change or addition, betterment, enhancement or amelioration of or upon any real property, or interest therein, belonging to the City of Tulsa intended to enhance its value, beauty or utility or to adapt it to new or further purposes. The term does not include the direct purchase of materials, equipment or supplies by the City of Tulsa.
e. "MSA". All of the land areas composed of Creek County, Osage County, Rogers County, Tulsa County and Wagoner County.

SECTION 3. Residency Requirements of Contractor's Employees. Every employee and/or agent of the City of Tulsa, Oklahoma, charged or involved with the preparation of plans and specifications for any public improvement funded in whole or in part with funds of the City of Tulsa, is hereby charged to include in said plans and specifications the following provisions which shall be binding upon the successful bidders:

a. Each bid shall be accompanied by a sworn statement that the bidder is committed to the goal of employing at least 50% bona fide residents of the City of Tulsa and/or the MSA in each classification as determined by the Oklahoma Commissioner of Labor.

b. The successful bidder will be responsible for having like requirements placed upon any subcontractor.

c. The successful bidder will submit to the Director or his designated representative of the Department of Human Rights any compliance reports involving the bidder and its subcontractors required by Title 31, Chapter 1, Section 9, of the Tulsa Revised Ordinances. The reports shall include information about the residence of each employee in each laboring and trade class applicable to any City project.

SECTION 4. Unresponsive Bids. The failure to submit the documents required by Section 3 shall render a bid unresponsive. Said documents must be submitted prior to the opening of the bids. The Director of the Department of Human Rights Section of City Development is charged with ensuring that all bids comply with Section 3 prior to the bid opening date.

SECTION 5. Duty of Employees and/or Agents of the City of Tulsa. Any employee and/or agent of the City of Tulsa who fails to include the goals for residency requirements found in Section 3 in the plans and specifications for any public improvement may be subject to disciplinary action, including dismissal.

SECTION 6. Severability. The invalidity of any section, subsection, provision or clause or portion of this chapter, or the invalidity of the application thereof to any person or circumstance shall not affect the validity of the remainder of this chapter or the validity of its application to other persons or circumstances.

SECTION 7. Effect Date. This resolution shall take effect as of July 1, 1988.

SECTION 8. Emergency Clause. That an emergency exists for the preservation of the public peace, health and safety, by reason whereof this resolution shall take effect immediately upon its passage, approval and publication.

PASSED, with the emergency clause ruled upon separately and approved this 23rd day of August, 1988.

APPROVED, this 23rd day of August, 1988.

Rodger Randle
Mayor

ATTEST: Philip W. Wood

APPROVED: Neal E. McNeil

City Attorney

R-2
PASSED, with the emergency clause ruled upon separately and approved this 23 day of August, 1988.

- APPROVED, this 23 day of August, 1988.

[Signature]
Mayor

ATTEST:

[Signature]
City Auditor

APPROVED:

[Signature]
City Attorney

CITY OF YOULA
FILED
AUG 31 1988
(Must be submitted at time of Bid)

CITY OF TULSA
RESOLUTION NO. 7404
AFFIDAVIT OF COMPLIANCE

____________________, of lawful age, being first duly sworn, states that
s(he) is the authorized agent of the Company set forth below.

Affiant further states that the Company, in compliance with City of Tulsa Resolution No. 7404, shall not hire or knowingly allow any of its subcontractors or lower tier subcontractors to hire anyone who is not a United States citizen or legal immigrant or anyone who does not have legal status as a temporary worker to perform work on any project which is the subject of a contract between the Company and the City of Tulsa.

Affiant further states that the Company shall not fail to comply with and shall not knowingly allow any of its subcontractors or lower tier subcontractors to fail to comply with all applicable laws including, but not limited to, labor, employment and taxation laws, in the performance of any work on any project which is the subject of a contract between the Company and the City of Tulsa.

Affiant further states that the Company shall make available to the City of Tulsa, at the City’s request, sufficient information and/or affirmations to allow the City to confirm Company’s compliance with Resolution No. 7404 relating to the performance of any contract between the Company and the City of Tulsa.

Company: ______________________

Signed: ______________________

Title ______________________

SUBSCRIBED and SWORN to before me, this _____ day of __________, 20__

______________________________

NOTARY PUBLIC

MY COMMISSION EXPIRES:

______________________________

COMMISSION NO.: ______________________

Resolution No. 7404
RAC-1
(Must be submitted at time of Bid)
CITY OF TULSA
50% RESIDENT RESOLUTION
AFFIDAVIT FOR BID

STATE OF
) ss:
COUNTY OF

____________________, of lawful age, being first duly sworn, states that s(he) is the agent authorized by the bidder to submit the attached bid. Affiant further states that the bidder, in compliance with City of Tulsa Resolution No. 18145, is committed to the goal of employing at least 50% bona fide residents of the City of Tulsa and/or the Metropolitan Statistical Area (composed of Creek, Okmulgee, Osage, Pawnee, Rogers, Tulsa, and Wagoner counties).

Affiant further states that bidder is responsible for having like requirements placed upon any of its subcontractors.

__________________________
BIDDER (Company Name)  SIGNED

__________________________
Title

SUBSCRIBED and SWORN to before me this ___ day of __________, 20___.

__________________________
NOTARY PUBLIC

MY COMISSION EXPIRES:

__________________________
COMMISSION NO.:

RRA-1
(Must be submitted at time of bid)

NON-COLLUSION AFFIDAVIT

STATE OF   
COUNTY OF   

______________________, of lawful age, being first duly sworn, says that:

1. I am the duly authorized agent of the bidder submitting the competitive bid associated with this sworn statement for the purpose of certifying facts pertaining to the existence of collusion among bidders and between bidders and municipal officers or employees, as well as facts pertaining to the giving or offering of things of value to governmental personnel in return for special consideration in the letting of any contract pursuant to the bid;

2. I am fully aware of the facts and circumstances surrounding the making of the bid and have been personally and directly involved in the proceedings leading to the submission of such bid;

3. Neither the bidder nor anyone subject to the bidder’s direction or control has been a party:
   a. to any collusion among bidders in restraint of freedom of competition by agreement to bid at a fixed price or to refrain from bidding;
   b. to any collusion with any municipal official or employee as to quantity, quality or price in the prospective contract, or as to any other terms of such prospective contract; nor
   c. in any discussions between bidders and any municipal official concerning exchange of money or other things of value for special consideration in the letting of a contract.

4. If awarded the contract, neither the bidder nor anyone subject to the bidder’s direction or control has paid, given or donated or agreed to pay, give or donate to any officer or employee of the City of Tulsa or of any public trust where the City of Tulsa is a beneficiary, any money or other thing of value, either directly or indirectly, in procuring the contract for which the bid is submitted.

________________________________________  Signed

________________________________________  Title

SUBSCRIBED and SWORN to before me this _____ day of ________________, 20___

__________________________  NOTARY PUBLIC

MY COMMISSION EXPIRES:

COMMISSION NO.:     NA-1
(Must be submitted at time of bid)

BUSINESS RELATIONSHIP AFFIDAVIT

STATE OF )
COUNTY OF ) ss:

______________________, of lawful age, being first duly sworn, says that s/he is the agent authorized by the bidder to submit the attached bid. Affiant further states that the nature of any partnership, joint venture or other business relationship presently in effect or which existed within one (1) year prior to the date of this statement with the architect, engineer, or other party to the project is as follows:

________________________________________________________________________

________________________________________________________________________

Affiant further states that any such business relationship presently in effect or which existed within one (1) year prior to the date of this statement between any officer or director of the bidding company and any officer or director of the architectural or engineering firm or other party to the project is as follows:

________________________________________________________________________

________________________________________________________________________

________________________________________________________________________

Affiant further states that the names of all persons having any such business relationships and the positions they hold with their respective companies or firms are as follows:

________________________________________________________________________

________________________________________________________________________

________________________________________________________________________

(If none of the business relationships herein above mentioned exist, affiant should so state.)

Signed: ____________________________

BIDDER (Company Name)

Title:

SUBSCRIBED and SWORN to before me this _____ day of __________, 20___.

______________________________

NOTARY PUBLIC

MY COMMISSION EXPIRES:

______________________________

COMMISSION NO.:

BR-1
INTEREST AFFIDAVIT

STATE OF )

COUNTY OF )

I, ________________________, of lawful age, being first duly sworn, state that I am the agent authorized by Contractor, Engineer, Architect or provider of professional service ["Services Provider"] to submit the attached Agreement. Affiant further states that no officer or employee of the City of Tulsa either directly or indirectly owns a five percent (5%) interest or more in the Services Provider’s business or such a percentage that constitutes a controlling interest. Affiant further states that the following officers and/or employees of the City of Tulsa own an interest in the Services Provider’s business which is less than a controlling interest, either direct or indirect.

__________________________________________

By ____________________________
Signature

Title ____________________________

Subscribed and sworn to before me this ____ day of __________, 20__.

______________________________
Notary Public

My Commission Expires: ____________

Notary Commission Number: ____________

County & State Where Notarized: ____________

The Affidavit must be signed by an authorized agent and notarized.
ELECTRONIC BID PROPOSAL INSTRUCTIONS - EXCEL SPREADSHEET
PROJECTS NO. [115010, 116235, 117866, 120333, 120335, 120336]
PEMA FLOOD DAMAGE

Please read the following instructions carefully:
1. After opening this file, re-save it as your company's name.
2. Open the BID FORM Sheet from the tabs below.
3. Input the unit price of the appropriate pay item in the cells highlighted in blue.
4. Review all data input and check calculations to ensure accuracy of Bid.
5. Print hardcopy of the "PROPOSAL" tab, BID FORM and the "SIGNATURE PAGE" tab.
6. Complete and sign the "Signature Page" document.

LEGEND
$ 1.00 Cells requiring data input.
$ 1.00 Internal Data Transfer.
$ 2.00 Calculated Results.

AGREEMENT FOR USING ELECTRONIC BID PROPOSAL

By and between: Meshek & Associates, LLC, (ENGINEER) and RECIPIENT. The enclosed electronic media is provided pursuant to your request and is for your limited use in connection with your submission of Bid Proposal for Projects No. [115010, 116235, 117866, 120333, 120335, 120336]. In no event shall the information be used for any other purpose or be released to third parties without the written consent of the ENGINEER. In the event of a discrepancy between the hard copy and this electronic media at delivery or in the future, the hard copy shall govern. ENGINEER hereby disclaims any and all liability for the consequences from use of the electronic media and makes no warranty or guarantee of accuracy. RECIPIENT shall assume full responsibility for the uses and consequences of the electronic media. It is agreed that ENGINEER has and retains ownership of the electronic media. ENGINEER does not warrant or guarantee that the electronic data is compatible with RECIPIENT's computer hardware or software, and ENGINEER'S responsibility for the electronic media is limited to replacement of defective media for a period of thirty (30) days after delivery to RECIPIENT. By opening and using this FILE, YOU AGREE to these TERMS AND CONDITIONS!!!
PROPOSAL
PROJECTS NO. [115010, 116205, 117860, 126333, 126335, 126336]
FEMA FLOOD DAMAGE

TO: HONORABLE MAYOR
   CITY OF TULSA, OKLAHOMA

THE UNDERSIGNED BIDDER, having carefully examined the drawings, specifications, and other
Contract Documents of the above project presently on file in the City Clerk, City of Tulsa Oklahoma:

CERTIFIES THAT he has inspected the site of the proposed work and has full knowledge of the extent
and character of the work involved, construction difficulties that may be encountered, and materials
necessary for construction, class and type of excavation, and all other factors affecting or which may be
affected by the specified work; and

CERTIFIES THAT he has not entered into collusion with any other bidder or prospective bidder relative
to the project and/or bid: and

HEREBY PROPOSES: to enter into a contract to provide all necessary labor, materials, equipment and
tools to completely construct and finish all the work required by the Contract Documents referred to
therein; to complete said work within _90_ calendar days after the work order is issued; and to accept in
full payment therefore the amount set forth below for all work actually performed as computed by the
Engineers as set forth in the Contract.

_Basis of Award_

IT SHOULD BE NOTED THAT THE LOWEST RESPONSIBLE BID SHALL BE DETERMINED BY
THE TOTAL BASE BID.

_Note:_ Item numbers omitted are not a part of the Contract.
## PROPOSAL FOR
PROJECTS NO. [115010, 116205, 117860, 126333, 126335, 126336]
FEMA FLOOD DAMAGE

### PROJECT NO. 115010 PAY QUANTITIES

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PROJECT NO. 115010 SUBTOTAL
# PAY QUANTITIES

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**PROJECT NO. 116205 SUBTOTAL**

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**PROJECT NO. 117860 SUBTOTAL**

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**PROJECT NO. 126333 SUBTOTAL**

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**PROJECT NO. 126335 SUBTOTAL**

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PROJECT NO. 126336 SUBTOTAL

PROJECT NO. 126336 PAY QUANTITIES

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<th>Item Number</th>
<th>Spec Number</th>
<th>Item Description</th>
<th>Unit</th>
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<tr>
<td>92</td>
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PROJECT NO. 126336 SUBTOTAL

PROJECTS NO. (116010, 116205, 117860, 126333, 126335, 126336) TOTAL

P-5
TOTAL BASE BID

Enclosed is a ( ) Bidder's Surety Bond, ( ) Certified Check, ( ) Cashier's Check for

Dollars ($_____) ___Figures___

which the City of Tulsa may retake or recover as liquidated damages in the event that the undersigned fails to enter into contract for the work covered by this proposal, provided the Contract is awarded to the undersigned within thirty (30) days, or within ninety (90) days if Federal funds are utilized, from the date fixed for opening of bids and the undersigned fails to execute said Contract and furnish the required bonds and other requirements as called for in these Contract Documents within thirty (30) days after award of Contract.

Dated at Tulsa, Oklahoma, this __________ day of ______________________, 20__

Respectfully submitted,

______________________________

(Complete legal name of company)

______________________________

(State of Organization)

By: __________________________

Title: _________________________

Printed Name: __________________

ATTEST:

Title: Corporate Secretary

Printed Name: __________________

(SEAL)

Address:

______________________________

______________________________

______________________________

Telephone Number: ___________

Fax Number: _________________

By signing above bidder acknowledges receipt of the following Addenda (give number and date of each):______________________________

______________________________

______________________________

P-8,
Certificate of Secretary

The undersigned ________________ (Assistant) Secretary of ________________, a ________________, corporation, (the "Corporation") hereby certifies that the following is a true and correct copy of a Resolution duly adopted by the Board of Directors of the Corporation on the ___, day of __________, 20__.

RESOLVED, that ________________ is authorized to execute and enter into bids, contracts, bonds, affidavits and any ancillary documents, on behalf of the Corporation.

The undersigned further certifies that this Resolution is in full force and effect as of the date of this Certificate and has not been amended, modified, revoked or rescinded.

IN WITNESS WHEREOF, I have executed this Certificate this ___, day of __________, 20__.

(Signature)

Printed Name

(Assistant) Secretary
[SAMPLE CONSENT OF MEMBERS]

[NAME OF COMPANY], LLC

Consent of Members

The undersigned, being all of the Members of [Name of Company], LLC, an Oklahoma Limited Liability Company, hereby authorize, consent to, approve and ratify the execution by ______________ on behalf of [Name of Company], LLC of bid proposals, contracts, affidavits and related documents in connection with [Name of Project] of the City of Tulsa.

DATED, this ______________ day of ______________, 20__.

Name printed: ____________________________

Name Printed: ____________________________

[ADD ADDITIONAL LINES FOR ADDITIONAL MEMBERS]

Disclaimer Statement: "This form is made available for example purposes only and is not intended to be legal advice nor intended to be relied upon in lieu of consultation with an attorney."
Date

Contractor

RE: City of Tulsa Project No. 173120 T.O. 21 FEMA FLOOD DAMAGE PROJECTS 115010, 116205, 117880, 126333, 126335, 126336

TO WHOM IT MAY CONCERN:

Please be advised that the City of Tulsa, Oklahoma, a municipal corporation, has contracted for the construction of a public improvement project as referenced above, and that pursuant to Title 68 § Section 1356 (10), sales on tangible personal property or services to be wholly consumed in the performance of such projects are exempt from Oklahoma and City of Tulsa Sales Tax when:

"...Any person making purchases on behalf of such subdivision or agency of the state shall certify, in writing, on the copy of the invoice or sales ticket to be retained by the vendor that the purchases are made for and on behalf of such subdivision or agency of this state and set out the name of such public subdivision or agency."

This letter of authorization expires.

A photostatic copy of this letter may be considered as the original.

CITY OF TULSA

Paul D. Zachary, P.E.
City Engineer

cc: Ryan McKaskle

HAS:AT:ji

STED-1
EXTENSION OF TIME REQUEST
(to be submitted with each partial payment application)

DATE: ____________________________________________________________________

CONTRACTOR: ____________________________________________________________________

ADDRESS: ____________________________________________________________________

CONTRACT NO.: ____________________________________________________________________

PROJECT NO.: ____________________________________________________________________

DESCRIPTION: ____________________________________________________________________

ARE THERE ANY CHANGES TO YOUR SBE UTILIZATION? ______ YES ______ NO

IF YES, GIVE REASON AND ATTACH CHANGE REQUEST FORM (SBE-4):
________________________________________________________________________

EXTENSION OF CONTRACT TIME REQUIRED: ______ YES ______ NO

TOTAL OF EXTENSION TIME REQUESTED: ____________________________________________________________________

IF YES GIVE REASON: ____________________________________________________________________

SIGNATURE - CONTRACTOR
________________________________________________________________________

CONSULTING ENGINEER OR DEPARTMENT OF PUBLIC WORKS STAFF RECOMMENDATIONS

APPROVED: ____________ REJECTED: ____________

REASON: ____________________________________________________________________

________________________________________________________________________

SIGNATURE

DATE

ACTION WILL BE TAKEN WITHIN 30 DAYS FROM RECEIPT OF REQUEST

ETR-1
CONTRACT FOR CONSTRUCTION OF PUBLIC IMPROVEMENTS
TULSA, OKLAHOMA

THIS CONTRACT made and entered into the ______ day of ________, 2021, by
and between ______ (list state) ______ (Corporation or Limited Liability Company)
of ______, Oklahoma, hereinafter called the "CONTRACTOR", and the CITY OF TULSA - TULSA, OKLAHOMA, a Municipal Corporation, herein called the "CITY."

WITNESSETH:

WHEREAS, the City has caused to be prepared the necessary Drawings, Specifications, and other Contract Documents for the public improvements herein described, and has invited bids for the construction thereof in accordance with the terms of this Contract, all of which is hereby designated as:

PROJECT NO. 173120 T.O. 21 FEMA FLOOD DAMAGE PROJECTS 115010,
116205, 117880, 126333, 126335, 126336

WHEREAS, the Contractor, in response to the Advertisement, has submitted to the City, in the manner and at the time specified, a sealed bid in accordance with the terms of this Contract; and,

WHEREAS, the City, in the manner prescribed by law, has publicly opened, examined, and canvassed the bids submitted, and has determined the above named Contractor to be the lowest responsible bidder for the work and has duly awarded to the said Contractor therefore, for the sum or sums named in the Contractor's bid, a copy of the Bid Form being attached to and made a part of this Contract;

NOW, THEREFORE, in consideration of the compensation to be paid to the Contractor and of the mutual agreements and covenants herein contained, the parties to this Contract have agreed and hereby agree, as follows:

ARTICLE I That the Contractor shall (a) furnish all tools, equipment, supplies, superintendence, transportation, and other construction accessories, services, and facilities; (b) furnish all materials, supplies, and equipment specified and required to be incorporated in and form a permanent part of the completed work; (c) provide and perform all necessary labor; and (d) in a good, substantial, and workmanlike manner and in accordance with the requirements, stipulations, provisions, and conditions of the Contract as defined in the attached General Provisions, sometimes referred to as General Conditions in the Contract Documents, said documents forming the Contract and being as fully a part thereof as if repeated verbatim herein, perform, execute, construct, and complete all work included in and covered by the City's official award of this Contract to the said Contractor, such award being based on the acceptance by the City of the Contractor's bid, or part thereof, as follows:

C-1
ARTICLE II. That the City shall pay to the Contractor for performance of the work embraced in this Contract, and the Contractor will accept as full compensation therefor, the sum (subject to adjustment as provided by the Contract) of ______________ AND /100 Dollars ($______________) for all work covered by and included in the Contract award and designated in the foregoing Article I; payments therefore to be made in cash or its equivalent, in the manner provided in the General Provisions.

ARTICLE III. That the Contractor shall start work within ten (10) days following the date stipulated in a written order from the City to proceed with the work to be performed hereunder, and shall complete the work within the number of consecutive calendar days after the authorized starting date, as stipulated below:

All Work Completed: 90 calendar days

ARTICLE IV. The sworn, notarized statement below shall be signed and notarized before this Contract will become effective.

ARTICLE V. Prior to submitting a final payment request, the Contractor shall furnish a lien waiver certifying that all subcontractors and suppliers have been paid.

IN WITNESS WHEREOF, the parties have hereto set their hands and seals,

this ______ day of _____, 2021.
CITY OF TULSA, OKLAHOMA
a municipal corporation

By: ___________________________ ATTEST: (SEAL)

_________________________ Date: __________  ______________________ Date: __________
Mayor
City Clerk

APPROVED:

_________________________ Date: __________  ______________________ Date: __________
City Attorney  City Engineer

CONTRACTOR

By: ___________________________

Printed Name ______________________________

_________________________ Date: __________  ______________________ Date: __________
Title  Title

ATTEST:

_________________________
Corporate Secretary

(SEAL)

C-3
AFFIDAVIT

STATE OF ______________________
COUNTY OF ______________________

________________________________, of lawful age, being first duly sworn, on oath says that (s)he is the agent authorized by the Contractor to submit the above Contract to the CITY OF TULSA, Tulsa, Oklahoma.

________________________________
Signature

Subscribed and sworn to before me this _____ day of __________, 2021.

________________________________
NOTARY PUBLIC

My Commission Expires:

________________________________

C-4
PERFORMANCE BOND

KNOW ALL MEN BY THESE PRESENTS: That we, the undersigned,

__________________________, (hereinafter called the Contractor),
duly authorized by law to do business as a construction contractor in the State of

Oklahoma, and

__________________________, (hereinafter called the "Surety"), a corporation organized under the laws of the State of ________________, and authorized to transact business in the State of Oklahoma, as Surety, are hereby held and firmly bound unto the City of Tulsa, Tulsa, Oklahoma (hereinafter called the "City"), in the penal sum of

Dollars (full amount of the Contract), ($________________) lawful money of the United States, for the payment of which, well and truly to be made unto the said City, we bind ourselves, our heirs, executors, administrators, successors, and assigns, jointly and severally, firmly by these presents, as follows:

THE CONDITION OF THE FOREGOING OBLIGATION IS SUCH THAT,
WHEREAS the Contractor has on the _____ day of ________________, ______, entered into a written contract with the City of Tulsa, Tulsa, Oklahoma, for furnishing all materials, labor, tools, equipment, and transportation necessary for:

PROJECT NO. 173120 T.O. 21 FEMA FLOOD DAMAGE PROJECTS
115010, 116205, 117880, 126333, 126335, 126336

NOW, THEREFORE, if said Contractor shall well and truly perform and complete said project in accordance with said Contract, Advertisement for Bids, General Conditions, Instructions to Bidders, Bid Form, Plans and Specifications, and related documents, shall comply with all the requirements of the laws of the State of Oklahoma; shall pay as they become due all just claims for work or labor performed and materials furnished in connection with said contract, and shall defend, indemnify and save harmless said City against any and all liens, encumbrances, damages, claims, demands, expenses, costs and charges of every kind, including patent infringement claims except as otherwise provided in said specifications and other contract documents, arising out of or in relation to the performance of said work and the provisions of said Contract, then these presents shall be void; otherwise, they shall remain in full force and effect.

This obligation is made for the use of said City and also for the use and benefit of all persons who may perform work or labor, or furnish any material in the execution of said Contract, and may be sued on thereby in the name of the City.

The Surety, for value received, hereby stipulates and agrees that no change, extension of time, alteration or addition to the terms of the Contract, or to the work to be performed thereunder, or the specifications accompanying same, shall in any way affect its obligation on this bond; and it does hereby waive notice of any such change, extension of time, alteration or addition of the terms of the Contract, or to the work or to the specifications.
06/13/06

IN WITNESS WHEREOF, the said Principal has caused these presents to be executed in its name and its corporate seal to be hereunto affixed by its duly authorized officers, and the said Surety has caused these presents to be executed in its name and its corporate seal to be hereunto affixed by its attorney-in-fact, duly authorized so to do, the day and year first above written.

____________
CONTRACTOR (Principal)

BY: ___________________________ ATTEST: ___________________________

Date: ___________________________ Date: ___________________________

Title: ___________________________ Title: ___________________________

______________________________ ___________________________
Date: ___________________________ Date: ___________________________

Attorney In Fact Surety

**This date shall match the notarized certificate on the Power-of-Attorney

(Accompany this Bond with Power Of Attorney)

APPROVED AS TO FORM:

______________________________ Date: ___________________________

City Attorney

______________________________ Date: ___________________________

City Clerk

PB - 2
STATUTORY BOND

WHEREAS, the undersigned __________________________, as Principal, and __________________________, a Corporation organized under the laws of the State of __________________________, and authorized to transact business in the State of Oklahoma, as Surety, are held and firmly bound unto the State of Oklahoma in the penal sum of ________ Dollars (Full Amount of Contract) ($ ________), lawful money of the United States, for the payment of which sum well and truly to be made, we bind ourselves, our successors, and assigns, jointly and severally firmly by these presents.

NOW, THEREFORE, if the said Principal shall fail or neglect to pay all indebtedness incurred by Principal or sub-contractors of said principal who perform work in the performance of such contract, for labor and materials and repairs to and parts for equipment used and consumed in the performance of said contract within thirty (30) days after the same becomes due and payable, the person, firm or corporation entitled thereto may sue and recover on this bond the amount so due and unpaid.

The Surety, for value received, hereby stipulates and agrees that no change, extension of time, alteration, or addition to the terms of the contract or to the work to be performed thereunder, or the specifications accompanying the same, shall in any way affect its obligation on this bond, and it does hereby waive notice of any such change, extension of time, alteration, or addition to the terms of the contract or to the specifications.
5/30/06
IN WITNESS WHEREOF, the said Principal has caused these presents to be executed in its name and its corporate seal to be hereunto affixed by its duly authorized officers, and the said Surety has caused these presents to be executed in its name and its corporate seal to be hereunto affixed by its attorney-in-fact, duly authorized so to do, the day and year first above written.

__________________________
CONTRACTOR (Principal)

BY: ______________________  ATTEST: ( SEAL )

Date: ________________  Date: ________________
Title: ____________________  Title: ____________________

Date: ________________  Date: ________________
Attorney-In-Fact  **  Surety ( SEAL )

**This date shall match the date of the notarized certificate on the Power-of-Attorney.

(Accompany this Bond with Power-Of-Attorney)

APPROVED AS TO FORM:

__________________________  Date:
City Attorney

__________________________  Date:
City Clerk
MAINTENANCE BOND

KNOW ALL MEN BY THESE PRESENTS:

That __________________________, as Principal, and corporation organized under the laws of the State of ______________________ of and authorized to transact business in the State of Oklahoma, as Surety, are held and firmly bound unto the City of Tulsa in the Penal sum of __________________________

Dollars (full amount of Contract) ($__________) in lawful money of the United States of America for the payment of which, well and truly to be made, we bind ourselves and each of us, our heirs executors, administrators, trustees, successors, and assigns, jointly and severally, firmly by these presents.

The condition of this obligation is such that:

WHEREAS, said Principal entered into a written contract with the City of Tulsa, Oklahoma dated __________________________, for

Project No. 173120 T.O. 21 FEMA FLOOD DAMAGE PROJECTS
115010, 116205, 117880, 126333, 126335, 126336

all in compliance with the drawings and specifications therefore, made a part of said Contract and on file in the office of the City Clerk, Tulsa, Oklahoma.

NOW, THEREFORE, if said Principal shall pay or cause to be paid to the City of Tulsa, Oklahoma, all damage, loss, and expense which may result by reason of defective materials and/or workmanship in connection with said work, occurring within a period of one (1) year for all projects, from and after acceptance of said project by the City of Tulsa, Oklahoma; and if Principal shall pay or cause to be paid all labor and materials, including the prime contractor and all subcontractors; and if principal shall save and hold the City of Tulsa, Oklahoma, harmless from all damages, loss, and expense occasioned by or resulting from any failure whatsoever of said Principal, then this obligation shall be null and void, otherwise to be and remain in full force and effect.

It is further expressly agreed and understood by the parties hereto that no changes or alterations in said Contract and no deviations from the plan or mode of procedure herein fixed shall have the effect of releasing the sureties, or any of them, from the obligation of this Bond.

MB-1
IN WITNESS WHEREOF, the said Principal has caused these presents to be executed in its name and its corporate seal to be hereunto affixed by its duly authorized officers, and the said Surety has caused these presents to be executed in its name and its corporate seal to be hereunto affixed by its attorney-in-fact, duly authorized so to do, the day and year first above written.

______________________________
CONTRACTOR (Principal)

BY: __________________________
Date: ________________________
Title: _________________________

ATTEST: ______________________
Date: ________________________
Title: _________________________

______________________________
Date: ________________________
Title: _________________________

______________________________
Date: ________________________
Attorney-In-Fact **

______________________________
Date: ________________________
Surety ( SEAL )

** This date shall match the date of the notarized certificate on the Power of Attorney (Accompany this Bond with Power-Of-Attorney)

APPROVED AS TO FORM:

______________________________
Date: ________________________
City Attorney

______________________________
Date: ________________________
City Clerk

MB-2
AFFIDAVIT OF CLAIMANT

STATE OF __________________________

COUNTY OF __________________________

The undersigned, of lawful age, being first duly sworn, on oath says that this contract is true and correct. Affiant further states that the work, services or materials will be completed or supplied in accordance with the contract, plans, specifications, orders or requests furnished the affiant. Affiant further states that (s)he has made no payment directly or indirectly of money or any other thing of value to any elected official, officer or employee of the City of Tulsa or any public trust of which the City is a beneficiary to obtain or procure the contract or purchase order.

By: __________________________
    Signature

Name: __________________________

Company: __________________________

Title: __________________________

Subscribed and sworn to before me this _____ day of __________________________, 20___.

______________________________
Notary Public

My Commission Expires: __________________________

Notary Commission Number: __________________________
SPECIFICATIONS
SPECIFICATIONS

A. Oklahoma Department of Transportation Standard Specifications for Highway Construction, 2009 Edition, shall be used on this project including Section 100-General Provisions, as modified by Ordinance No. 23427.

B. City of Tulsa, Engineering Services Department Construction Specifications – October 2013 are incorporated herein as if fully set forth and are on file, including all revisions posted on internet prior to bid opening, with the Engineering Services Department, Engineering Design Division, 2317 S. Jackson Ave. Tulsa, Oklahoma or access on the internet at: http://www.cityoftulsa.org/government/departments/engineering-services/specification-checklists-and-details.
AN ORDINANCE AMENDING TITLE 11, TULSA REVISED ORDINANCES
ENTITLED "PUBLIC WORKS DEPARTMENT" BY AMENDING CHAPTER
10 ENTITLED "STANDARD SPECIFICATIONS FOR HIGHWAY
CONSTRUCTION," AMENDING SECTION 1001, TO REVISE STANDARD
SPECIFICATIONS SET FORTH IN PARTS 411.04.N AND 414.04.R; AND
PROVIDING FOR SEVERABILITY; AND PROVIDING FOR REPEAL OF
CONFLICTING ORDINANCES.

BE IT ORDAINED BY THE CITY OF TULSA:

Section I. That Title 11, Chapter 10, Tulsa Revised Ordinances, be and the same is
hereby amended and shall read as follows:

"CHAPTER 10. STANDARD SPECIFICATIONS FOR HIGHWAY CONSTRUCTION"

Section 1000. Adoption of State Standard Specifications.
Section 1001. Additions, Revisions, Deletions and Exceptions

SECTION 1000. ADOPTION OF STATE STANDARD SPECIFICATIONS.

Those certain documents, three (3) copies of which have been filed in the Office of the City
Clerk of the City of Tulsa, being marked and designated as Standard Specifications for Highway
Construction, 2005 Edition, as published by the Oklahoma Department of Transportation, are
hereby adopted as the standard specifications for public improvement projects for the City with
the exceptions given in SECTION 1001.

SECTION 1001. ADDITIONS, REVISIONS, DELETIONS AND EXCEPTIONS.

1001.A. The following terms, listed as numbered in the 2009 Edition of the Standard
Specifications for Highway Construction, are hereby revised for all sections of this chapter:

101.05. Definitions.

101.05.A. Acceptance Date. Delete

101.05.P. Bond. All references to the "Department" shall mean "City of Tulsa," a municipal
corporation.
101.05.V. Commission. All references to the “Commission” shall mean “The City of Tulsa, Oklahoma, a municipal corporation acting by and through its duly authorized officers and agents.”

101.05.Y. Contract. Replace definition with the following: “The written agreement between the City and the Contractor setting forth obligations of the parties thereunder, including, but not limited to, the performance of the work, the furnishing of labor and materials, and the basis of payment.”

The Contract includes the Notice to Bidders, Proposal, Contract Form, all Contract Bonds, Specifications, Special Specifications, Special Provisions, all Plans, Work Orders and Change Orders that are required to complete the construction of the work in an acceptable manner, including authorized extensions.

101.05.AG. Department. Replace definition with the following: “Engineering Services Department of the City of Tulsa, Oklahoma.”

101.05.AL. Director. Replace definition with the following: “The Director of the Engineering Services Department of the City of Tulsa.”

101.05.AL. Engineer. Replace definition with the following: “The City Engineer of the City of Tulsa or his designee.”

101.05.AT. Holiday. Replace definition with the following: “Those days declared to be holidays for regular Civil Service employees of the City of Tulsa.”

101.05.AV. Inspector. Replace definition with the following: “The City of Tulsa’s Engineering Services Department authorized representative assigned to make inspections of the work.”

101.05.AX. Letter of Credit. All references to the “State” shall mean “The City of Tulsa, Oklahoma, a municipal corporation acting by and through its duly authorized officers and agents.”

101.05.BF. Materials Division. Replace definition with the following: “The Director of the Engineering Services Department of the City of Tulsa.”

101.05.BG. Materials Engineer. Replace definition with the following: “The City Engineer of the City of Tulsa or his designee.”

101.05.BZ. Resident Engineer. Replace definition with “The direct representative of the Engineering Services Department of the City of Tulsa for the oversight of construction projects with authority for oversight of all aspects of the construction project.”

101.05.CC. Right-of-Way. Replace definition with the following: “Right-of-Way or ROW shall mean the surface, the airspace above ground, and the area below the surface of any public street, highway, parkway, lane, path, alley, sidewalk, boulevard, drive, bridge, tunnel,
stormwater drainage system, easement, park, or similar property in which the City now or hereafter holds a property interest and/or a maintenance responsibility which, consistent with the purposes for which it was granted or dedicated, may be used to install, operate and maintain Facilities.

101.05.CH. State. All references to the “State” shall mean the “The City of Tulsa, Oklahoma, a municipal corporation acting by and through its duly authorized officers and agents.”

101.05.CP. Supplemental Agreement. Delete

1001.B. City of Tulsa exceptions to the following provisions, listed as numbered in the 2009 Edition of the Standard Specifications for Highway Construction, are hereby described as follows:

102.01. Pre-Qualification. Replace section with “The City of Tulsa requires General / Prime Contractors to be Prequalified according to Title 11 Chapter 11 of the City of Tulsa Ordinances.”

102.06. Examination of Plans, Specifications, Special Provisions, and the Work Site. Replace the fourth paragraph with, “If the City has boring logs and subsurface investigation results, bidders may contact the Contract Administrator at the following address during normal business hours:

City of Tulsa
Engineering Services Department
2317 S. Jackson Ave.
Tulsa, OK 74107”

102.10. Delivery of Proposal. Replace section with the following: “Each bid Proposal shall be completed electronically on the electronic media provided, then printed, signed and submitted along with the electronic media and the complete bound copy of the contract documents or as instructed in the Notice to Bidders. In the event of a discrepancy between the pricing on the electronic media and the hard copy of a Proposal, the hard copy pricing will govern. If an electronic media is not provided and the bid Proposal is manual, the bid Proposal shall be submitted in ink. The written words shall govern over the figures. Erroneous entries shall be lined out, initialed by the bidder, and the correct entry inserted. The unit price bid must cover all expense for furnishing the labor, materials, tools, equipment, and apparatus of every description to construct, erect, and furnish all work required by and in conformance with the Plans and Specifications.

Each bid shall be enclosed in a sealed envelope addressed to the:

City Clerk’s Office
The City of Tulsa
One Technology Center
175 E. 2nd Street, Suite 260
Tulsa, Oklahoma 74103

3 12-9-15
or as otherwise instructed in the Notice to Bidders, and identified on the outside with the words:

PROJECT NO.

Pre-qualification Certificate Number ____________.

All addenda to the contract documents shall accompany the bid when submitted. Any bid turned in prior to 96 hours before opening is non-responsive.”

102.13. Public Opening of Proposals. Replace section with the following: “Proposals shall be publicly opened and read on the date and at the hour and place set forth in the advertisement and Notice to Bidders in the manner established by the City.”

102.16. Non-Collusive Bidding Certification. Replace ODOT form and replace with the form provided in the Bid Documents.

103.08. Approval of Contract. Replace section with the following: “The Contract shall not be binding upon the City until it has been executed and approved in the manner set forth in the Tulsa City Charter.”

105.17.C. Final Acceptance. Replace definition with the following: “The date on which the Request for Action (RFA) for final payment has been signed by the Mayor of the City of Tulsa.”

105.18. Claims for Adjustment. Delete section.

106.03. Samples, Tests and Cited Specifications. Insert the following after the second sentence: “FAST Guide shall mean current City of Tulsa testing guidance as shown in the Special Provisions.”

106.04.D. Distribution of Certifications. Replace section with the following: “The Contractor shall submit certifications to the Engineer with another copy mailed to:

Construction Engineer
City of Tulsa
Engineering Services Department
2317 S. Jackson Ave.
Tulsa, OK 74107”

106.05. Plant Inspections. In this section, “Oklahoma City” shall mean “Tulsa.”

106.11. Guarantees and Warranties. In this paragraph replace “six month” with “twelve month.”

107.19. Regulated Floodways. Add the sentence, “The Contractors shall also follow the requirements of Title 11A of the City ordinances.”

107.20. Stormwater Management. Insert after the first sentence, “The Contractors shall also follow the requirements of Title 11A of the City ordinances.”

108.02. Notice to Proceed and Preconstruction Conference. Modify the second paragraph to read: “After the Contractor and Resident Engineer hold a preconstruction conference, the Contractor shall receive a Notice to Proceed, before the start of construction.”

108.07.B. Calendar Day Contract. Delete the second paragraph and replace with the following: “There are fifteen (15) working days in every month of the year.”

108.08. Incentive/Disincentive for Early/Late Completion. Delete section.

108.09. Failure to Complete on Time. Delete Table 108:1.

109.04.B. Submitting a Claim. Delete Sections 1 through 4. Insert the following after the first paragraph: “Change Orders to be processed according to City policy.”

109.06. Progress Payments. In the second paragraph delete language regarding “semi-monthly progressive estimates.”

109.08. Final Payment. Delete last paragraph of the section and replace with the following: “Contractor shall submit final payment within 90 days of completion of job unless otherwise approved by the City.”


109.11. Payment to Subcontractors. Delete last paragraph of the section.

220.04.C. Contractor Responsibilities for SWPPP. Delete the first sentence of the second paragraph and replace with the following: “A Contractor Certification statement for subcontractors is “required.”

401.04.A. Tolerances. Delete entire section and replace with the City of Tulsa Special Provision for Pavement and Bridge Deck Smoothness provided in the contract documents.

411.04.N. (2) Acceptance. Replace this section with the following: “ODOT pay factors for average lot density, asphalt cement content, and air voids shall not be used for this project. Failure to reach average lot density of 92% to 97%, asphalt cement content of +/- 0.40 of job mix formula, or air voids greater than 1.5 deviation from target will result in rejection of the work. In addition the thickness of the asphalt must be equal to or greater than what is specified.”

414.03.B. Placing and Finishing Equipment. In the first paragraph add the sentence, “if paving is not performed by a slip form paver a hand vibrator shall be required.”

414.04.R. Acceptance of Pavement. Replace this section with the following: “ODOT pay factors for strength and thickness shall not be used on this project. Failure to reach less than 300 psi of the target strength from the mix design will result in rejection of the work. In addition, the thickness of the Portland Cement Concrete Pavement must be equal to or greater than what is specified.”

509.06. Basis of Payment. Delete pay factors for air content.

516.06. Basis of Payment. Delete the Obstructions pay item.


801.02. Materials. Replace Department's Traffic Engineering Division Qualified Products List (QPL) with the City of Tulsa Traffic Engineering's Approved Products List (APL).

801.04.B. Bonding and Diagram. Delete and replace section with the following:

“Provide mechanically and electrically secure conduit, poles, and highway lighting cabinets to form a continuous system.

Provide No. 8 AWG copper wire for grounding traffic signal cabinet.

Provide at least No. 6 AWG THHN green stranded copper wire for bond and ground jumpers for all other equipment.

Provide at least No. 6 AWG THHN green stranded copper wire for ground poles, securely attached to the pole and the ground rod, as shown on Plans.

All identified neutrals shall be white.”

802. Electrical Conduit. Delete section and refer to City of Tulsa Specification 602, Electrical Conduit.


804. Concrete Footings. Delete section and refer to City of Tulsa Specification 603, Signal Pole Footings.
805.01. Description. Delete section and replace with the following: "This work consists of the removal and delivery of traffic signal and highway lighting items, to the City of Tulsa Operations facility, which equipment shall remain the property of the City of Tulsa: Traffic signal poles, signal heads, pedestrian heads, backplates, controller cabinet assembly, cabinet guard, mast arm signs, astro-brackets, span wire equipment and any other traffic signal equipment removed except for the pull boxes, conduit and wire which shall become the property of the contractor. Work to include the removal of all footings below ground or as directed by the engineer. Footings shall become the property of the contractor."

805.04. Construction Methods. Replace the second paragraph with the following: "Do not damage traffic signal equipment during removal and storage. Remove all footings to below ground level or as directed by the engineer. Footings, pull boxes, conduit and wire shall become property of the contractor."

806. Poles and Mast Arms. Delete section and refer to City of Tulsa Specification 617, Poles and Mast Arms.


811. Electrical Conductors Highway Lighting. Delete section and refer to City of Tulsa specification 621, Electrical Conductors Highway Lighting.

825. Traffic Signal Controller Assembly. Delete section and refer to City of Tulsa specification 610, Traffic Signal Controller Assembly.

828. Vehicle Loop Detector and Loop Detector Wire. Delete section and refer to City of Tulsa specification 604, Detector Wire.


Section 2. SEVERABILITY. If any section, subsection, paragraph, subparagraph, sentence, clause or phrase of this Ordinance shall be declared invalid for any reason whatsoever, such decision shall not affect the remaining portions of this Ordinance, which shall remain in full force and effect, and to this end the provisions of this Ordinance are hereby declared to be severable.

ADOPTED by the Council: JAN 14 2016

Date

Chairman of the Council

OFFICE OF THE MAYOR

Received by the Mayor: at

Date Time

Dewey F. Bartlett, Jr.

By: Secretary

APPROVED by the Mayor of the City of Tulsa, Oklahoma: JAN 22 2016

Date

at Time

Mayor

ATT: Michael

City Clerk

APPROVED

City Attorney

12-9-15

8

tu/rwk
"General Decision Number: OK20210028 01/01/2021

Superseded General Decision Number: OK20200028

State: Oklahoma

Construction Type: Heavy

County: Tulsa County in Oklahoma.

HEAVY CONSTRUCTION PROJECTS (including sewer/water line construction; heavy construction projects on treatment plants and industrial sites. (excludes heavy dredging and water well drilling)

Note: Under Executive Order (EO) 13658, an hourly minimum wage of $10.95 for calendar year 2021 applies to all contracts subject to the Davis-Bacon Act for which the contract is awarded (and any solicitation was issued) on or after January 1, 2015. If this contract is covered by the EO, the contractor must pay all workers in any classification listed on this wage determination at least $10.95 per hour (or the applicable wage rate listed on this wage determination, if it is higher) for all hours spent performing on the contract in calendar year 2021. If this contract is covered by the EO and a classification considered necessary for performance of work on the contract does not appear on this wage determination, the contractor must pay workers in that classification at least the wage rate determined through the conformance process set forth in 29 CFR 5.5(a)(1)(ii) (or the EO minimum wage rate, if it is higher than the conformed wage rate). The EO minimum wage rate will be adjusted annually. Please note that this EO applies to the above-mentioned types of contracts entered into by the federal government that are subject to the Davis-Bacon Act itself, but it does not apply to contracts subject only to the Davis-Bacon Related Acts, including those set forth at 29 CFR 5.1(a)(2)-(60). Additional information on contractor requirements and worker protections under the EO is available at www.dol.gov/whd/govcontracts.

Modification Number 0 Publication Date 01/01/2021

* ELEC1002-005 07/05/2020

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ENGI0627-014 06/01/2019

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https://beta.sam.gov/wage-determination/OK20210028/0?index=wd&keywords=&is_active... 1/7/2021
POWER EQUIPMENT OPERATOR

GROUP 1: All Crane Type Equipment 200 ton and larger and including 400 ton capacity cranes. All Tower Cranes.

GROUP 2: All Crane Type Equipment 100 ton capacity and larger cranes, and less than 200 ton capacity.

GROUP 3: All Crane Type Equipment 50 ton capacity and larger cranes, and less than 100 ton capacity. Crane Equipment (as rated by mfg.) 3 cu. yd. and over Guy derrick Whirley Power Driven Hole Digger (with 30' and longer mast).

GROUP 4: CRANES with Boom Incl. Jib less than 100 ft and less than 3 cu. Yd.; Overhead Monorail Crane

GROUP 6: ROLLER (ASPHALT AND DIRT)

GROUP 10: OILER

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<td>OPERATOR: Scraper</td>
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<tr>
<td>OPERATOR: Trackhoe</td>
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<td>TRUCK DRIVER: Dump Truck</td>
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WELDERS - Receive rate prescribed for craft performing operation to which welding is incidental.

Note: Executive Order (EO) 13706, Establishing Paid Sick Leave for Federal Contractors applies to all contracts subject to the
Davis-Bacon Act for which the contract is awarded (and any solicitation was issued) on or after January 1, 2017. If this contract is covered by the EO, the contractor must provide employees with 1 hour of paid sick leave for every 30 hours they work, up to 56 hours of paid sick leave each year. Employees must be permitted to use paid sick leave for their own illness, injury or other health-related needs, including preventive care; to assist a family member (or person who is like family to the employee) who is ill, injured, or has other health-related needs, including preventive care; or for reasons resulting from, or to assist a family member (or person who is like family to the employee) who is a victim of, domestic violence, sexual assault, or stalking. Additional information on contractor requirements and worker protections under the EO is available at www.dol.gov/whd/govcontracts.

Unlisted classifications needed for work not included within the scope of the classifications listed may be added after award only as provided in the labor standards contract clauses (29 CFR 5.5 (a) (1) (ii)).

The body of each wage determination lists the classification and wage rates that have been found to be prevailing for the cited type(s) of construction in the area covered by the wage determination. The classifications are listed in alphabetical order of "Identifiers" that indicate whether the particular rate is a union rate (current union negotiated rate for local), a survey rate (weighted average rate) or a union average rate (weighted average rate).

Union Rate Identifiers

A four letter classification abbreviation identifier enclosed in dotted lines beginning with characters other than "SU" or "UAVG" denotes that the union classification and rate were prevailing for that classification in the survey. Example: PLUM0198-005 07/01/2014. PLUM is an abbreviation identifier of the union which prevailed in the survey for this classification, which in this example would be Plumbers. 0198 indicates the local union number or district council number where applicable, i.e., Plumbers Local 0198. The next number, 005 in the example, is an internal number used in processing the wage determination. 07/01/2014 is the effective date of the most current negotiated rate, which in this example is July 1, 2014.

Union prevailing wage rates are updated to reflect all rate changes in the collective bargaining agreement (CBA) governing this classification and rate.

Survey Rate Identifiers

Classifications listed under the "SU" identifier indicate that no one rate prevailed for this classification in the survey and the published rate is derived by computing a weighted average rate based on all the rates reported in the survey for that classification. As this weighted average rate includes all rates reported in the survey, it may include both union and non-union rates. Example: SU12012-007 5/13/2014. SU indicates the rates are survey rates based on a weighted average.
calculation of rates and are not majority rates. LA indicates the State of Louisiana. 2012 is the year of survey on which these classifications and rates are based. The next number, 007 in the example, is an internal number used in producing the wage determination. 5/13/2014 indicates the survey completion date for the classifications and rates under that identifier.

Survey wage rates are not updated and remain in effect until a new survey is conducted.

Union Average Rate Identifiers

Classification(s) listed under the UAVG identifier indicate that no single majority rate prevailed for those classifications; however, 100% of the data reported for the classifications was union data. EXAMPLE: UAVG-OR-0010 08/29/2014. UAVG indicates that the rate is a weighted union average rate. OR indicates the state. The next number, 0010 in the example, is an internal number used in producing the wage determination. 08/29/2014 indicates the survey completion date for the classifications and rates under that identifier.

A UAVG rate will be updated once a year, usually in January of each year, to reflect a weighted average of the current negotiated/CBA rate of the union locals from which the rate is based.

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

WAGE DETERMINATION APPEALS PROCESS

1.) Has there been an initial decision in the matter? This can be:

* an existing published wage determination
* a survey underlying a wage determination
* a Wage and Hour Division letter setting forth a position on a wage determination matter
* a conformance (additional classification and rate) ruling

On survey related matters, initial contact, including requests for summaries of surveys, should be with the Wage and Hour Regional Office for the area in which the survey was conducted because those Regional Offices have responsibility for the Davis-Bacon survey program. If the response from this initial contact is not satisfactory, then the process described in 2.) and 3.) should be followed.

With regard to any other matter not yet ripe for the formal process described here, initial contact should be with the Branch of Construction Wage Determinations. Write to:

Branch of Construction Wage Determinations
Wage and Hour Division
U.S. Department of Labor
200 Constitution Avenue, N.W.
Washington, DC 20210

2.) If the answer to the question in 1.) is yes, then an interested party (those affected by the action) can request review and reconsideration from the Wage and Hour Administrator (See 29 CFR Part 1.8 and 29 CFR Part 7). Write to:

https://beta.sam.gov/wage-determination/OK20210028/0?index=wd&keywords=&is_active... 1/7/2021
Wage and Hour Administrator  
U.S. Department of Labor  
200 Constitution Avenue, N.W.  
Washington, DC 20210

The request should be accompanied by a full statement of the interested party's position and by any information (wage payment data, project description, area practice material, etc.) that the requestor considers relevant to the issue.

3.) If the decision of the Administrator is not favorable, an interested party may appeal directly to the Administrative Review Board (formerly the Wage Appeals Board). Write to:

Administrative Review Board  
U.S. Department of Labor  
200 Constitution Avenue, N.W.  
Washington, DC 20210

4.) All decisions by the Administrative Review Board are final.

END OF GENERAL DECISION

https://beta.sam.gov/wage-determination/OK20210028/0?index=wd&keywords=&is_active... 1/7/2021
SAMS REQUIREMENTS FOR
CONTRACTORS AND SUBCONTRACTORS

DUNS NUMBER

This is a nine-digit number in a data universal numbering system that identifies business entities on a location-specific basis. A DUNS number is mandatory to receive a federal contract. If you do not have a DUNS number you can register with Dun and Bradstreet at http://fedgov.dnb.com/webform (can take up to 30 days to complete) or by calling 866-705-5711 (takes 10-15 minutes to complete).

______________________________  _________________________
CONTRACTOR NAME              DUNS NUMBER

SYSTEM FOR AWARD MANAGEMENT (SAM)

The System for Award Management (SAM) includes information regarding entities debarred, suspended, proposed for debarment, excluded or disqualified under the non-procurement common rule, or otherwise declared ineligible from receiving Federal contracts, certain subcontracts, and certain Federal assistance and benefits. In order to be eligible to receive a contract, applicants must register on SAM. Registration must be renewed and revalidated at least every 12 months. To register go to www.sam.gov and create an account by clicking the "Create User Account" and follow the directions. You will need your DUNS number and about 30 minutes to complete the process. If you need help call 1-866-606-8220. Registration is FREE.
§ 200.321 Contracting with small and minority businesses, women's business enterprises, and labor surplus area firms.

(a) The non-Federal entity must take all necessary affirmative steps to assure that minority businesses, women's business enterprises, and labor surplus area firms are used when possible.

(b) Affirmative steps must include:

(1) Placing qualified small and minority businesses and women's business enterprises on solicitation lists;

(2) Assuring that small and minority businesses, and women's business enterprises are solicited whenever they are potential sources;

(3) Dividing total requirements, when economically feasible, into smaller tasks or quantities to permit maximum participation by small and minority businesses, and women's business enterprises;

(4) Establishing delivery schedules, where the requirement permits, which encourage participation by small and minority businesses, and women's business enterprises;

(5) Using the services and assistance, as appropriate, of such organizations as the Small Business Administration and the Minority Business Development Agency of the Department of Commerce; and

(6) Requiring the prime contractor, if subcontracts are to be let, to take the affirmative steps listed in paragraphs (1) through (5) of this section.
SPECIAL

PROVISIONS
1. Successful Contractor shall return fully executed contract documents (including bonds and insurance) to the City of Tulsa, Contract Administration Section, Room N-103, 2317 South Jackson Avenue within two (2) weeks after bid opening.

2. If the successful Contractor can provide proper bonds and insurance and the contract is executed, the Pre-Construction Conference for this project will be held within eight (8) weeks after bid opening.
SPECIAL PROVISIONS
INSURANCE REQUIREMENTS

In reference to Ordinance No. 23427 Adoption of State Specification for Highway Construction, Section 107.12 shall be modified as follows:

The CONTRACTOR (and any subcontractors) shall carry and keep in force during this Contract, policies of insurance issued by an insurer authorized to transact business in Oklahoma in minimum amounts as set forth below or as required by the laws of the State of Oklahoma. The CONTRACTOR shall also furnish an Owner’s Protective Policy in the same amounts naming the City of Tulsa as the assured, issued by the same insurance company as the CONTRACTOR’s liability coverage and indemnifying the City of Tulsa against any and all actions, claims, judgments or demands arising from injuries of any kind and character sustained by any person or persons because of work performed by the CONTRACTOR.

General Liability Insurance with a bodily injury and property damage combined single limit of not less than $1,000,000.00 for each occurrence.

Employer’s Liability and Workmen’s Compensation in the amounts as required by law.

The CONTRACTOR shall provide proof of such coverage:

(a) By providing Certificate(s) of Insurance prior to the execution of this contract; and

(b) By submitting updated Certificate(s) of Insurance with each and every subsequent request for payment. The Certificate(s) should show that the policies are current and should be dated within 30 days of payment request.

The CONTRACTOR shall not cause any required insurance policy to be cancelled or permit it to lapse. If the CONTRACTOR cancels, allows to lapse, fails to renew or in any way fails to keep any required insurance policy in effect, the City will suspend all progress and/or final payments for the project until the required insurance is obtained. Further, a CONTRACTOR who fails to keep required insurance policies in effect may be deemed by the City to be in breach of contract, ineligible to bid on future projects, and/or ineligible to engage in any new contracts.

The Contractor shall execute and furnish a Statutory Bond for the protection of laborers, mechanics, and material men in a sum equal to one hundred percent (100%) of the contract price.

The Contractor shall execute and furnish a Performance Bond in a sum equal to one hundred percent (100%) of the contract price.

The Contractor shall execute and furnish a Maintenance Bond in a sum equal to one hundred percent (100%) of the contract price.

Prior to doing blasting, the Contractor shall furnish a Certificate of Insurance, which shall certify that any damage caused by blasting is within the coverage of the Contractor’s liability insurance to the full limits thereof.

All bonds and insurance must be executed by a company licensed to do business in the State of Oklahoma and must be acceptable to the City.
SPECIAL PROVISIONS GENERAL

1. Work Days: All work to be completed within **90 calendar days** for the Base Bid.

2. No work shall be done between the hours of 7:00 p.m. and 7:00 a.m., nor on Saturday, Sunday, or legal holidays without the prior written approval or permission of the Engineer in each case, except such work as may be necessary for the proper care, maintenance, and protection or work already done, or of equipment, or in the case of an emergency.

3. Traffic Control: All work shall be done in cooperation with the City to establish, install, maintain and operate complete, adequate and safe traffic control during the entire construction period. Barricades, signs, lights, flags and all other traffic control devices shall meet the requirements and specifications of the Standard Drawings entitled “Typical Applications of Traffic Control Devices”, and shall be approved by the Traffic Engineer of the City of Tulsa. Two-way traffic shall be maintained at all times, unless otherwise approved by the Engineer. All contractors shall contact the City of Tulsa Traffic Engineering Section before removing or replacing traffic devices, detector loops and street signs. A traffic plan must be submitted for any temporary street closure at least 2 working days prior to planned closing.

4. Contractor shall provide an acceptable 10' straightedge for this Project. All transverse joints shall be straight edged and approved by the Engineer. Surface elevations will meet ODOT 401.04 and all other contract requirements.

5. The Engineer may do quality assurance testing in addition to that performed by the Contractor. The Engineer or a testing laboratory designated by the Engineer will do any testing for quality assurance. The City will pay all costs of quality assurance.

6. Full depth sawing of patches is required. This area to be removed shall be marked by the Contractor under the direction of the Engineer. The Contractor will provide personnel and equipment for marking of the patches as directed by the Engineer. Cost of full depth sawing shall be included in bid item for patching areas.

7. Areas to be patched shall be delineated in a straight-line geometric pattern. When completed, the patch shall be level and provide a smooth riding surface. Portland Cement Concrete patches will be protected from all traffic for a minimum period of 24 hours before removal of protective devices. No open excavations will be left overnight.

8. All asphalt patch work will require that asphalt rollers and an asphalt laydown machine be available for use on the job as directed by the Engineer.
9. Contractor will be required to employ the use of an Automatic Grade Referencing System. The equipment shall be capable of accurately and automatically establishing grades along each edge of the machine by referencing the existing pavement by means of a ski or joint matching shoe, or from an independent grade control. Minimum length of ski shall be 40'.

10. Prior to application of tack coat, the street shall be blown clean with compressed air to the satisfaction of the Engineer.

11. The tack coat must be uniformly distributed and adequately cured prior to beginning the overlay.

12. Contractor shall be responsible for cleanup and/or removal of any excessive overspray of any tack coat material to the satisfaction of the Engineer.

13. Debris from rooting of cracks and cold milling shall be swept and vacuumed from the street to the satisfaction of the Engineer.

14. Contractor will be responsible for preparation and distribution of a written notice to residents within 48 hours of beginning milling and overlay operations. Costs associated with this requirement will be included in other items of work.

15. Contractor shall provide a continuous work effort towards total completion of the work in an area prior to moving to a different location.

16. All full depth asphalt patches will be made only after milling is complete, if milling is required, and prior to overlay.

17. No masonry structures shall be used in street right of way. Either precast or cast-in-place structures shall be used.

18. No lifting holes will be allowed in any reinforced concrete pipes or reinforced concrete boxes.

19. No fly ash is allowed to be used on this project.

20. The Contractor certifies that it and all of its Subcontractors to be used in the performance of the Contract are in compliance with 25 O.S. Sec. 1313 and participate in the Status Verification System. The Status Verification System is defined in 25 O. S. Sec. 1312 and includes but is not limited to the free Employee Verification Program (E-Verify) available at www.dhs.gov/E-Verify.

21. **Driveways**. Access to properties and businesses adjacent to the right of way must be provided and maintained at all times unless otherwise directed/approved by the Engineer. The Contractor will contact the business or property owner at least 5 days in advance of any driveway closure. Driveways and patches in front
of driveways, which are removed, shall not be left unusable overnight. If concrete cannot be placed the same day as removal, the Contractor shall furnish screening or other suitable aggregate material to maintain temporary access until concrete can be placed. The cost of placing and removing the material for temporary access shall be included in the pay item for Concrete Driveway (High Early Strength). Failure to leave any driveway usable will subject the Contractor to a $1000.00 per day fine for each and every calendar day that the driveway remains non-useable. The only exception for a driveway to be non-useable is to allow for curing time for concrete. Cure time will not exceed 48 hours.

22. Driveways in excess of 18-feet in width shall be constructed in half-sections and access shall be maintained at all times.

23. Contractor shall prepare and present a schedule and plan for lane and driveway closures throughout the project. The Contractor shall include in the plan, driveway signage for local business access. Payment for signs will be included under the pay item “Signage for Local Business Access” and will be paid for by the square foot. Coordination with the City of Tulsa and local business operators shall be required before a driveway schedule and plan is approved.

24. Contractor shall coordinate with the City of Tulsa and local business operators to identify opportunities to perform weekend or “after business hours” construction on driveways to minimize impacts to the area.

25. Local and through traffic shall be maintained at all times through the project unless otherwise permitted by the Engineer. All public and private streets shall be accessible at all times. All detours, horizontal traffic movements, etc. are directly related to the sequence of work; therefore, the Contractor shall proceed with his construction operation in conformity with the details shown on the plans and as required by this special provision.

26. Traffic must be handled appropriately through the entire project during construction and it shall be the responsibility of the Contractor to provide for the safety and comfort of the traveling public at all times. The Contractor shall be required to give the traveling public at least 48 hours advance notice of any lane and/or street closures.

27. The Contractor may propose/recommend modifications to the sequence of work for consideration by the Engineer. Any major recommended modification by the contractor shall include any changes to the various pay items, impact to traffic, and effect of overall project in time and cost, etc. The Contractor shall not
proceed with any construction operations based on a revised phase/sequence until the Contractor obtains written approval from the Engineer.

28. Two lanes shall remain open to traffic, one in each direction, throughout all phases of construction, unless otherwise approved/directed by the Engineer. Left turn lanes shall remain open to traffic throughout all phases of construction, unless otherwise approved/directed by the Engineer. Transitions from pavement elevations through construction areas to access driveways or intersections shall be the Contractor’s responsibility. Contractor shall maintain signs and markings on a continuous basis.
SPECIAL PROVISIONS
TIME FOR COMPLETION

1. The work shall commence within ten days from and after the date of a written work order from the City. The Contractor agrees that the work shall be prosecuted regularly, diligently and uninterruptedly at a uniform rate of progress so as to ensure completion within the number of days after the day on which the work order is issued. If the Contractor shall fail to complete all work within the time specified, then the Contractor agrees to pay the City, not as a penalty, but as liquidated damages for Breach of Contract, the Sum of Two Thousand Five Hundred Dollars ($2,500.00) for each and every calendar day for failure to complete all work within the time specified. The said amount is fixed and agreed upon because of the impracticability and extreme difficulty of fixing and ascertaining the actual damages the City would in such event sustain. It is expressly understood and agreed that the said time for completion of the work described herein is a reasonable time for the completion of same.

2. If the Contractor shall fail to complete reconstruction of a segment of roadway within thirty (30) days of beginning the reconstruction operation, then the Contractor agrees to pay the City, not as a penalty, but as liquidated damages for such breach of contract, the sum of Two Thousand Five Hundred Dollars ($2,500.00) for each and every calendar day of failure to complete the work after the specified time. The said amount is fixed and agreed upon because of the impracticability and extreme difficulty of fixing and ascertaining the actual damages the City would in such event sustain. This time constraint applies only to roadways to be reconstructed and includes all subsidiary work items required to complete the reconstruction. Subsidiary items not required to complete the reconstruction are not subject to this time constraint.

3. If the Contractor shall fail to complete overlaying of any separately milled segment of roadway within twenty (20) days of beginning the milling operation, then the Contractor agrees to pay the City, not as a penalty, but as liquidated damages for such breach of contract, the sum of Two Thousand Five Hundred Dollars ($2,500.00) for each and every calendar day of failure to complete the work after the specified time. The said amount is fixed and agreed upon because of the impracticability and extreme difficulty of fixing and ascertaining the actual damages the City would in such event sustain. The City will authorize when milling is to be done based on weather conditions. This time constraint applies only to segments to be milled and includes all subsidiary work items required to complete the overlay. Subsidiary items not required to complete the overlay are not subject to this time constraint.

4. The Contractor shall commence work within 24 hours of traffic control devices being established at the project location. If the Contractor shall fail to commence work within 24 hours of traffic control devices being established at the project
location, then the Contractor agrees to pay the City, not as a penalty, but as liquidated damages for such breach of contract, the sum of One Thousand Dollars ($1,000.00) per lane for each day of failure to commence work after the specified time set forth. The amount is fixed and agreed upon because of the impracticability and extreme difficulty of fixing and ascertaining the actual damage the City would in such event sustain.

5. **Within 14 days** after Bid Opening and prior to Award of Bid the successful Contractor will be required to furnish the Engineer with a progress schedule, in a format approved by the Engineer, setting forth in detail the procedure he proposes to follow, and giving the dates on which he expects to start and to complete separate portions of the work. If at any time, in the opinion of the Engineer, proper progress is not being maintained, such changes shall be made in the schedule of operations, which will satisfy the Engineer that the work will be completed within the period stated in the Proposal. Monthly progress meetings will be conducted to maintain coordination between all project entities.

6. The Contractor will be required to provide a full-time, onsite English speaking superintendent for this Project for direct contact with City and coordination of subcontractors. A working foreman is not acceptable as a project superintendent. The superintendent shall be required to be present at the work site whenever the Contractor or subcontractors are performing work. The superintendent shall be a representative of the Contractor with the authority to make decision. If the Contractor shall fail to provide a non-working superintendent on a day when work is being performed, then the Contractor agrees to pay the City, not as a penalty, but as liquidated damages for such breach of contract, the sum of One Thousand Dollars ($1,000.00) for each and every calendar day of failure to provide a non-working superintendent at the work site. The said amount is fixed and agreed upon because of the impracticability and extreme difficulty of fixing and ascertaining the actual damages the City would in such event sustain.

7. It is further agreed that time is of the essence of each and every portion of this Contract and the specifications wherein a definite and certain time is fixed for the performance of any act whatsoever; and where under the contract an allowance of additional time for completion of any work is made, the new time fixed by such extension shall be of the essence of this Contract.

8. Should the Contractor be delayed in the final completion of the work by any act or neglect of the City of Tulsa, or of any employees of either, or by strikes, injunctions, fire or other cause or causes outside of and beyond the control of the Contractor and which, in the opinion of the Engineer, could have been neither anticipated or avoided, then an extension of time sufficient to compensate for the delay as determined by the Engineer, shall be granted by the City, provided however, that the Contractor shall give the City and the Engineer notice in writing of the cause of the delay in each case on the Extension of Time Request Form enclosed in these documents, and agrees that any such claim shall be fully
compensated for by an extension of time to complete performance of the work included herein.

9. The Contractor shall submit the Extension of Time Request Form with each partial payment application. Failure to submit the Extension of Time Request with a partial payment application shall constitute a complete waiver of any claim for time extension for the period covered by the partial payment.

10. Extension of time may be granted for delays caused by unsuitable weather. Extension of time will not be granted for delays caused by ground condition, inadequate construction force, or the failure of the Contractor to place orders for equipment or materials a sufficient time in advance to ensure delivery when needed. Any extension of time by the City shall not release the Contractor and surety herein from the payment of liquidated damages for a period of time not included in the original contract or the time extension as herein provided.

11. Failure to complete project within specified time, as set forth in the Contract, may be grounds for disqualification for future consideration for contracts with the City of Tulsa.

12. Final Acceptance of the Project will be in strict accordance with ODOT Specification 105.17– Project Completion and Acceptance and ODOT Specification 104.10– Final Cleaning Up and defined as “The date on which the Request for Action (RFA) for final payment has been signed by the Mayor of the City of Tulsa.”

13. Contract Evaluation forms will be compiled by City staff upon completion of this Project to provide a record of the Contractor’s performance for use in subsequent projects.
SPECIAL PROVISIONS
FOR ADJUSTMENT OF ROADWAY UTILITIES

1. Contractor is to remove the rings and covers of manholes and water valves and the frames and grates of single grate drop inlets and double grate drop inlets. If these items are to be reused, the Contractor is to mark, store and protect these materials for later placement in the exact orientation existing at the beginning of the Project. After removal of these obstructions, the Contractor shall place over each hole 5/8” thick steel plate cut to the proper size as directed by the Engineer. After placement of steel plate, the hole shall be filled with compacted asphalt to the established street grade. It shall be the Contractor’s responsibility to make the necessary measurements to ensure that all utilities can be easily located after overlay. After the overlay the Contractor shall raise the utilities to the new grade.

2. Manholes and inlet basins shall be raised or lowered as required by using a solid, continuous layer of bricks and mortar. The upper portion of manhole or basin shall be removed as required for correct raising or lowering adjustment. If existing basin or manhole walls are concrete, the Contractor may dowel apron into wall in lieu of removing the upper portion of wall. Dowels shall be #4, at 1’–0” O.C. grade 60 steel.

3. All existing I-beams on double or triple grate frames shall be re-established under grates.

4. Where basins or manholes are covered for construction or other purposes, curbs shall be marked with green paint.

5. Silicone construction joint material per Public Works Standards shall be used where concrete aprons meet existing or new concrete pavement. Bituminous construction joint material per Public Works Standards shall be used where concrete aprons meet existing or new asphalt pavement.

6. The Contractor shall place a minimum ½” thick flexible gasket bitumastic sealant material in two concentric rings, along the inside and outside edge of the top of the manhole prior to reinstalling the frame. The gasket shall be E-Z STIK Butyl Rubber Sealant, PRO-STIK Performed Joint Sealant or equal. The material shall be able to withstand hydrogen sulfide and other corrosive gasses. After the frame has been set, a normal ½ coat of trowelable bitumastic joint sealant shall be applied to the entire outside circumference of the manhole. The sealant shall be applied from the top of the lower flange down a minimum of 6” below the frame connection. It shall then be wrapped with a 6 mil plastic to protect against damage from backfill. The trowelable material shall be Joint Mastic Sewer Joint Compound or equal. The cost of the material and labor associated with installing it shall be included in the price bid for manholes, adjust to grade.
PLAN VIEW

SECTION A

LAMPHOLES IN ASPHALT
ADJUST TO GRADE
N.T.S.

ARU-2
PLAN VIEW

SECTION A

WATER VALVES TO GRADE IN ASPHALT STREET

31/10/05 ARU-3

ARU-3
SPECIAL PROVISIONS
FOR
CONTRACTOR'S QUALITY CONTROL

The units for this project will be those specified in the project plans.

643.01. DESCRIPTION.
Furnish Quality Control of materials and construction in accordance with the Standard Specifications, Plans and Special Provisions. This includes, but is not limited to preparing and following a Quality Control Plan (See Part 643 Tables 1–7). Obtain samples and perform tests for Quality Control, provide inspection, and exercise management control to produce materials and workmanship that conforms to contract requirements. Unless otherwise noted in the plans, all pavements and bridges (except culverts) will be subject to requirements of any or all of the Special Provisions which are included in this contract. City of Tulsa will provide Quality Assurance testing at their discretion.

643.02. MATERIALS.
Meet materials quality requirements.

643.03. EQUIPMENT.
Provide equipment at own expense, unless otherwise specified. All equipment and supplies shall conform with Standards and applicable Specifications. Certify the calibration of all equipment.

643.04. CONSTRUCTION.

a) General. Provide quality of all construction covered in the contract.

b) Quality Control Personnel Qualifications. All personnel directly involved in sampling and/or testing materials for either control or acceptance purposes shall be certified in the appropriate area(s) by the Oklahoma Highway Construction Materials Technician Certification Board. Manager certification for material sampling and testing is not required unless he or she is directly involved in sampling and/or testing materials.

c) Contractor's Quality Control Plan. Submit a written Quality Control Plan at least one week prior to the pre-work conference. Include the following in the plan:

1. Sources of principal materials including names of suppliers and locations.
2. Names and resumes of key Quality Control personnel.
3. Duties, responsibilities, and authorities (to suspend production, alter mixtures, etc.) granted to key Quality Control personnel.
4. Description of testing laboratories, including qualifications, key equipment and locations.
5. Description of start-up operations, including but not limited to:
   a. Review of submittal requirements and all other Contract requirements with the performance of the work.
   b. Examine the work area to ascertain that all preliminary work has been completed.
   c. Verify all field dimensions and advise the Engineer of any discrepancies.
6. Detailed testing schedule based on production.
7. Control, verification, and acceptance testing procedures for each specific test to include the test name, specification requiring the test, feature of work to be tested, and person responsible for each test.
8. Procedures for tracking construction deficiencies from identification through acceptable corrective action. These procedures will establish verification that identified deficiencies have been corrected.

CQC-1
d) Sampling and Testing. Perform sampling and testing according to the accepted Quality Control plan using personnel certified in appropriate areas and laboratories approved by the Engineer. Keep laboratory facilities clean and maintain all equipment in proper working condition.

e) Inspection. Provide inspection necessary to ensure compliance with applicable standards and specifications.

f) Records. Maintain complete testing and inspection records and make them accessible to the Engineer.

1. Test Results. Maintain control charts that identify the project number, contract item, test number, each test parameter, the upper and/or lower specification limit applicable to each test parameter, and the test results. Use the control charts as part of the Quality Control system to document process variability, to identify production and equipment problems, to make necessary corrections, and to identify potential pay factor adjustments.

   i. Post control charts in an accessible location, keep them up to date, and make them available to the Engineer upon request. Make corrections to the process when problems are evident, including ceasing production if necessary.

2. Inspection Results. For each day of work, prepare an “Inspector’s Daily Record of Construction Operations” on an approved form. Include the following certification signed by the person with overall responsibility for the inspection system:

   i. “It is hereby certified that the information contained in this record is accurate, and that all work documented herein complies with the requirements of the contract. Any exceptions to this certification are documented as a part of this record.”

3. Submit the record and certification to the Engineer within two working days of the work being performed. If the record is incomplete, in error, or otherwise misleading, a copy of the record will be returned with corrections noted. When chronic errors or omissions occur, correct the procedures by which the records are produced.

g) Use of Contractor Test Results for Acceptance Purposes. Abbreviated test procedures are allowed for Contractor use. The Quality Control Plan shall list all abbreviated test procedures, describe all deviations from standard procedures for each, and note their intended purpose. Test results from abbreviated procedures will not be used for any purpose by the City of Tulsa. It is the Engineer’s discretion to use or not use any of the Contractor’s test results for acceptance purposes.

h) Changes. Submit, in writing, all proposed changes in key Quality Control personnel, equipment or procedures from those previously approved by the Engineer. Submit written changes at least one week prior to the proposed action.

643.05. METHOD OF MEASUREMENT.
Payment for Contractor’s Quality Control will be measured on a lump sum basis.
643.06. BASIS OF PAYMENT.
Accepted Contractor’s Quality Control measured for payment as prescribed above will be paid for at the Contract unit price for:

CONTRACTOR’S QUALITY CONTROL ........................................LUMP SUM

This payment will be full compensation for furnishing all materials, facilities, equipment, labor and incidentals to complete the work.

Subject to acceptable performance, payment for Contractor’s Quality Control will be made in accordance with the following schedule:

25% on the next estimate after the Engineer’s approval of the Contractor’s Quality Control Plan and other required initial documentation

plus 25% when 50% of the work subject to Quality Control requirements is complete

plus 25% when 75% of the work subject to Quality Control requirements is complete

plus 25% when all test results and records related to Quality Control work have been furnished to and accepted in writing by the Engineer

As stated above, this payment is based upon acceptable performance. Payment will be reduced for unacceptable portions of the Quality Control work. Serious deficiencies in Quality Control work may result in the project being shut down.
# PART 643 TABLE 1

## BITUMINOUS MIXTURES

<table>
<thead>
<tr>
<th>ODOT/COT SUPPLEMENTS</th>
<th>MATERIAL</th>
<th>TYPE OF TEST(S) REQUIRED</th>
<th>SAMPLING POINT</th>
<th>MINIMUM SAMPLING/TESTING FREQUENCY</th>
</tr>
</thead>
<tbody>
<tr>
<td>411, 708</td>
<td>Asphalt Concrete Pavement</td>
<td>Volumetrics, Marshall, Rice &amp; Air Voids</td>
<td>Hot Plant or Roadway</td>
<td>One Per Day's Production.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Oil Content (Nuclear/Ignition)</td>
<td>Hot Plant or Roadway</td>
<td>One Per 350 Tons or Fraction Thereof. Minimum One Sample Per Day.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Compaction (Core)</td>
<td>Roadway</td>
<td>One Per 300 Linear Feet For Each Lift And Lane Pass Or Fraction Thereof.</td>
</tr>
<tr>
<td></td>
<td>Cold Feed</td>
<td>Gradation</td>
<td>Hot Plant</td>
<td>When Days Production Exceeds 300 Tons: One Prior to First Day of Production and One Per 500 Tons Thereafter.</td>
</tr>
</tbody>
</table>

**Remarks:**
Asphalt deficient in oil content and/or density shall be cored 50' maximum on both sides of failed section when deemed necessary by the City of Tulsa. The results of the 2 cores shall be averaged with the previous test results.

Minimum sampling and testing is required for each mix and supplier.

City of Tulsa reserves the right to modify sampling and testing requirements as needed to ensure quality of materials.
# Part 643 Table 2
## Cementitious Mixtures

<table>
<thead>
<tr>
<th>ODOT/COT Supplements</th>
<th>Material</th>
<th>Type of Test(s) Required</th>
<th>Sampling Point</th>
<th>Minimum Sampling/Testing Frequency</th>
</tr>
</thead>
<tbody>
<tr>
<td>414, 701</td>
<td>Portland Cement Concrete (Flatwork)</td>
<td>Compressive Strength</td>
<td>At Discharge</td>
<td>One Set Of Six Cylinders Per 50 Cubic Yards Or Fraction Thereof.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Slump, Time &amp; Temperature</td>
<td>At Discharge</td>
<td>One Per Set Of Cylinders.</td>
</tr>
<tr>
<td>509, 701</td>
<td>Portland Cement Concrete (Structures)</td>
<td>Compressive Strength</td>
<td>At Discharge</td>
<td>One Set Of Six Cylinders Per Type Of Structure, Per 50 Cubic Yards, or Days Production</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Slump, Time &amp; Temperature</td>
<td>At Discharge</td>
<td>One Per Set Of Cylinders.</td>
</tr>
<tr>
<td>501, 701, 703</td>
<td>Controlled Low Strength Material</td>
<td>Compressive Strength</td>
<td>At Discharge</td>
<td>One Set Of Two Cylinders Per Shift.</td>
</tr>
<tr>
<td>425, 623, 701, 733</td>
<td>Grout</td>
<td>Compressive Strength</td>
<td>At Discharge</td>
<td>One Set Of Four Prisms When Required By Engineer or Their Representative.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Slump, Time &amp; Temperature</td>
<td>At Discharge</td>
<td>One Per Set Of Prisms.</td>
</tr>
<tr>
<td>521, 701 733, 737</td>
<td>Mortar</td>
<td>Compressive Strength</td>
<td>At Batch Site</td>
<td>One Set Of Four Cylinders When Required by Engineer or Their Representative.</td>
</tr>
<tr>
<td>Project Plans &amp; Specifications</td>
<td>Shotcrete</td>
<td>Compressive Strength</td>
<td>At Discharge</td>
<td>One Panel Per 50 Cubic Yards or One Per Mixture, Nozzleman and Shift (Whichever is Greater).</td>
</tr>
</tbody>
</table>

**Remarks:**
Concrete specifications: Time is 90 minutes max; Temperature is 90 degrees Fahrenheit max.

If in the opinion of the Engineer or his/her representative, there is sufficient cause to question the quality of the mortar or grout being utilized, random field sampling and testing may be required.

Shotcrete test panel forms should be wood or steal and a minimum of 24" x 24" x 4", generally shot in a vertical position. Minimum sampling and testing is required for each mix design and supplier.

City of Tulsa reserves the right to modify sampling and testing requirements as needed to ensure quality of materials.
<table>
<thead>
<tr>
<th>ODOT/COT SUPPLEMENTS</th>
<th>MATERIAL</th>
<th>TYPE OF TEST(S) REQUIRED</th>
<th>SAMPLING POINT</th>
<th>MINIMUM SAMPLING FREQUENCY</th>
</tr>
</thead>
<tbody>
<tr>
<td>202, 613</td>
<td>Trench Backfill (including lateral trenches)</td>
<td>Proctor Density, Gradation &amp; P.I.</td>
<td>In-Place</td>
<td>One Per Soil Type.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Compaction &amp; Moisture Content</td>
<td>In-Place</td>
<td>One Per 8&quot; Lift For Every 100 Linear Feet, Per Pipe Run, or Day's Production.</td>
</tr>
<tr>
<td>310</td>
<td>Subgrade</td>
<td>Proctor Density, Gradation &amp; P.I.</td>
<td>In-Place</td>
<td>One Per Soil Type.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Compaction &amp; Moisture Content</td>
<td>In-Place</td>
<td>Every 100 Linear Feet Or Day's Production.</td>
</tr>
<tr>
<td>202, 501</td>
<td>Structure Backfill</td>
<td>Proctor Density, Gradation &amp; P.I.</td>
<td>In-Place</td>
<td>One Per Soil Type.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Compaction &amp; Moisture Content</td>
<td>In-Place</td>
<td>One Per 8&quot; Lift Per Structure</td>
</tr>
<tr>
<td>202</td>
<td>Roadway Fill &amp; Embankments</td>
<td>Proctor Density, Gradation &amp; P.I.</td>
<td>In-Place</td>
<td>One Per Soil Type.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Compaction &amp; Moisture Content</td>
<td>In-Place</td>
<td>One Per 8&quot; Lift For Every 100 Linear Feet Or Day's Production.</td>
</tr>
<tr>
<td>202</td>
<td>Import</td>
<td>Proctor Density, Gradation &amp; P.I.</td>
<td>Import Site or On-Site Stockpile</td>
<td>One Per Soil Type.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Compaction &amp; Moisture Content</td>
<td>In-Place</td>
<td>One Per 8&quot; Lift For Every 100 Linear Feet Or Day's Production.</td>
</tr>
</tbody>
</table>

**Remarks:**

For Infrastructure Development Projects (IDP) only. Testing Frequencies as follows:

- Sewer & Water Services (30%) Driveways, Aprons and ADA ramps (50%) Valley Gutters (100%)
- Dry Utility, Fire Hydrant, Fire Line and Storm Drain (100%)
- Import material shall be Select Borrow in accordance with Section 202 and 705. All fill materials shall be placed at +/- 2% of the optimum moisture content.
- The nuclear density gauge is to be correlated with a sand cone for every 10 tests taken, or 1 per day, whichever is greater.
- City of Tulsa reserves the right to modify sampling and testing requirements as needed to ensure quality of materials.
### PART 643 TABLE 4
**AGGREGATE BASE**

<table>
<thead>
<tr>
<th>ODOT/COT SUPPLEMENTS</th>
<th>MATERIAL</th>
<th>TYPE OF TEST(S) REQUIRED</th>
<th>SAMPLING POINT</th>
<th>MINIMUM SAMPLING FREQUENCY</th>
</tr>
</thead>
<tbody>
<tr>
<td>303, 703, 708</td>
<td>Aggregate Base (AB)</td>
<td>Proctor Density</td>
<td>Stockpile, Windrow, Roadway</td>
<td>At Start of Production and as Material Changes per Supplier and/or Plant</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Compaction &amp; Moisture Content</td>
<td>Roadway, Pipe Bedding, Initial Backfill</td>
<td>One per 100' per Lift or One per Lane Pass or Days Production</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Gradation, PI (Wet Prep)</td>
<td>Stockpile, Windrow, Roadway</td>
<td>One per Project, or One per 1000 Tons or Fraction Thereof</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Specific Gravity</td>
<td>Stockpile, Windrow, Roadway</td>
<td>At Start of Production and as Material Changes per Supplier and/or Plant</td>
</tr>
</tbody>
</table>

**Remarks:**
If asphalt millings are used for bedding, they shall meet the requirements of virgin Aggregate Base per ODOT.

Millings must meet all ASTM C-33 requirements.

Millings cannot be placed until the material has been certified by ODOT/COT approved testing lab.

City of Tulsa reserves the right to modify sampling and testing requirements as needed to ensure quality of materials.

---

### PART 643 TABLE 5
**REINFORCEMENT**

<table>
<thead>
<tr>
<th>ODOT/COT SUPPLEMENTS</th>
<th>MATERIAL</th>
<th>TYPE OF TEST(S) REQUIRED</th>
<th>SAMPLING POINT</th>
<th>MINIMUM SAMPLING FREQUENCY</th>
</tr>
</thead>
<tbody>
<tr>
<td>724</td>
<td>Steel Reinforcement</td>
<td>Certificate and/or Tests</td>
<td>Project</td>
<td>One Sample For Each Size, Grade &amp; Heat Number Per Shipment &amp; Manufacturer. Certificate Required.</td>
</tr>
<tr>
<td>517, Project Plans &amp; Specifications</td>
<td>Post-Tensioned Steel</td>
<td>Certificate and/or Tests</td>
<td>Project</td>
<td>One Sample For Each Size, Grade &amp; Heat Number Per Shipment &amp; Manufacturer. Certificate Required.</td>
</tr>
<tr>
<td>503, Project Plans &amp; Specifications</td>
<td>Pre-Stressed Steel</td>
<td>Certificate and/or Tests</td>
<td>Project Or Fabrication Plant</td>
<td>One Sample For Each Size, Grade &amp; Heat Number Per Shipment &amp; Manufacturer. Certificate Required.</td>
</tr>
</tbody>
</table>

**Remarks:**
All steel and iron incorporated into Federal-Aid projects must conform to requirements of "Buy America" per 23 CFR 635.410.

City of Tulsa reserves the right to modify sampling and testing requirements as needed to ensure quality of materials.
## PART 643 TABLE 6
### ELASTOMERIC BEARING PADS

<table>
<thead>
<tr>
<th>ODOT/COT SUPPLEMENTS</th>
<th>MATERIAL</th>
<th>TYPE OF TEST(S) REQUIRED</th>
<th>SAMPLING POINT</th>
<th>MINIMUM SAMPLING FREQUENCY</th>
</tr>
</thead>
<tbody>
<tr>
<td>733.06</td>
<td>Elastomeric Bearing Pad (Grade 2)</td>
<td>AASHTO M 251</td>
<td>Project</td>
<td>Two Sample Bearing Pads Selected at Random by Engineer from every 100 Bearing Pads or Portion Thereof. Minimum of One Sample per Lot</td>
</tr>
</tbody>
</table>

**Remarks:**

Two sample bearing pads may be needed to complete the specified testing for smaller bearing pads.

Bearing pads will be selected at random by the Engineer at the project site for testing.

Bearing pads marked or otherwise presented as test bearing pads will not be tested.

Bearing pads must be made available for testing at least four weeks in advance of intended use.

Each bearing pad is to be marked in indelible ink or flexible paint. The marking shall consist of the order number, lot number, bearing identification number, and elastomer type and grade number. The marking shall be on the face that is visible after erection of the bridge.

City of Tulsa reserves the right to modify sampling and testing requirements as needed to ensure quality of materials.

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CQC-8
# PART 643 TABLE 7A

**MINIMUM TEST SCHEDULE & FINAL REPORT**

## Minimum Testing Schedule:

A Minimum Testing Schedule is to be created and submitted to the City of Tulsa Field Engineering within 10 business days of project assignment. Testing frequencies are to be calculated using an approved set of plans in conjunction with the bid tab items to create an accurate representation of the minimum testing needed for the project. Any notes, comments, special circumstances and/or assumptions made for quantity calculations should be listed at the bottom of the page.

## Final Report Should Include the Following:

All laboratories must submit a Final Report after the completion of each project. Laboratories will be notified by the City of Tulsa Field Engineering, via email, that the project is complete and all lab results for soils, concrete & asphalt will be attached. A CD and a hard copy of the Final Report must be delivered to the City of Tulsa Field Engineering within 5 business days from the date of this email.

Final Reports are to include all field and lab tests/results, daily reports and samples taken for the entire project.

*All Final Reports must be stamped and signed by a registered professional engineer* and shall verify that all materials, sampled and tested, were found to be in compliance with the latest City of Tulsa Standards and Specifications.

Construction materials that fail to meet specification requirements, but were incorporated in the project, must be summarized in the final report with a detailed explanation listing corrective actions or justification for acceptance.

# PART 643 TABLE 7B

**INFRASTRUCTURE DEVELOPMENT PROJECTS (IDP) ONLY**

**MINIMUM TEST SCHEDULE & FINAL REPORT**

## Minimum Testing Schedule:

A Minimum Testing Schedule shall be created and submitted to the City of Tulsa IPD Inspector, during the pre-construction meeting. Testing frequencies are to be calculated using an approved set of plans, in conjunction with the bid tab items, to create an accurate representation of the minimum testing needed for the project. Any notes, comments, special circumstances and/or assumptions made for quantity calculations, should be listed at the bottom of the page.

## Final Report:

All laboratories must submit a Final Report at the completion of each project. A spiral bound copy of the Final Report must be delivered to the City of Tulsa IPD Inspector along with final record drawings of the project.

Final Reports shall include all field and lab tests/results (including any acceptance/deficiency test results), daily reports and samples taken for the entire project.

All Final Reports must be stamped and signed by a registered professional engineer and shall verify that all materials, sampled and tested, were found to be in compliance with the latest City of Tulsa Standards and Specifications. Construction materials that fail to meet specification requirements, but were incorporated in the project, must be summarized in the final report with a detailed explanation listing corrective actions or justification for acceptance.
## INSPECTION/TESTING SCHEDULE

<table>
<thead>
<tr>
<th>Service</th>
<th>Minimum Notice (Hours)</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>Aggregate Base:</td>
<td>48</td>
<td>Density testing must be complete prior to stringline. Obtain samples for proctor/acceptance testing prior to scheduling density. Per Plans &amp; Specifications.</td>
</tr>
<tr>
<td>Aggregate Base Thickness:</td>
<td>48</td>
<td>Material must be from a City of Tulsa approved plant.</td>
</tr>
<tr>
<td>Aggregate Base Sampling:</td>
<td>48</td>
<td>Contractor/inspector must call the City of Tulsa Field Engineering for scheduling. Material must be from an ODOT approved plant.</td>
</tr>
<tr>
<td>Asphalt:</td>
<td>48</td>
<td>Obtain samples for proctor/acceptance prior to scheduling density testing.</td>
</tr>
<tr>
<td>Backfill:</td>
<td>48</td>
<td>Material must be from an ODOT approved plant.</td>
</tr>
<tr>
<td>Concrete:</td>
<td>48</td>
<td>Allow time to schedule and set up traffic control if required.</td>
</tr>
<tr>
<td>Coring:</td>
<td>48</td>
<td>Allow time to schedule and set up traffic control if required.</td>
</tr>
<tr>
<td>Crack Seal:</td>
<td>48</td>
<td>Allow time to schedule and set up traffic control if required.</td>
</tr>
<tr>
<td>Footing Inspection:</td>
<td>24</td>
<td>Allow time to schedule and set up traffic control if required.</td>
</tr>
<tr>
<td>Grout:</td>
<td>24</td>
<td>Allow time to schedule and set up traffic control if required.</td>
</tr>
<tr>
<td>Import:</td>
<td>24</td>
<td>Material must be approved by the City of Field Engineering prior to placement.</td>
</tr>
<tr>
<td>Mortar:</td>
<td>24</td>
<td>Allow time to schedule and set up traffic control if required.</td>
</tr>
<tr>
<td>Post Tension Pre-Pour Inspection:</td>
<td>48</td>
<td>Allow time to schedule and set up traffic control if required.</td>
</tr>
<tr>
<td>Post Tension Stressing Inspection:</td>
<td>48</td>
<td>Allow time to schedule and set up traffic control if required.</td>
</tr>
<tr>
<td>Post Tension Sampling:</td>
<td>48</td>
<td>Allow time to schedule and set up traffic control if required.</td>
</tr>
<tr>
<td>Reinforcing Steel (Inspection):</td>
<td>48</td>
<td>Allow time to schedule and set up traffic control if required.</td>
</tr>
<tr>
<td>Reinforcing Steel (Sampling):</td>
<td>48</td>
<td>Allow time to schedule and set up traffic control if required.</td>
</tr>
<tr>
<td>Shotcrete:</td>
<td>48</td>
<td>Contractor shall provide 16&quot; x 16&quot; x 4&quot; sampling panel.</td>
</tr>
<tr>
<td>Sidewalk Slope Inspection:</td>
<td>24</td>
<td>Allow time to schedule and set up traffic control if required.</td>
</tr>
<tr>
<td>Slurry (CLSM):</td>
<td>24</td>
<td>Allow time to schedule and set up traffic control if required.</td>
</tr>
<tr>
<td>Slurry Seal:</td>
<td>48</td>
<td>Allow time to schedule and set up traffic control if required.</td>
</tr>
<tr>
<td>Soil Sampling:</td>
<td>24</td>
<td>Allow time to schedule and set up traffic control if required.</td>
</tr>
<tr>
<td>Stringline:</td>
<td>24</td>
<td>Allow time to schedule and set up traffic control if required.</td>
</tr>
<tr>
<td>Subgrade:</td>
<td>24</td>
<td>Density testing must be complete prior to stringline. Obtain samples for proctor/acceptance testing prior to scheduling density.</td>
</tr>
<tr>
<td>Weld Inspection:</td>
<td>48</td>
<td>Allow time to schedule and set up traffic control if required.</td>
</tr>
</tbody>
</table>

Inspection/Testing schedule time listed above has been considered in contract time. No additional time will be given.

SECTION END
SPECIAL PROVISIONS
FOR COLD WEATHER CONCRETE CURING

Placement of asphalt on street cut repair sections of cold weather concrete or opening of street cut repair sections of cold weather concrete to traffic shall be allowed when the concrete achieves a compressive strength of 3,000 pounds per square inch (psi). Construction equipment loads shall not be applied to the concrete repair section until the 3,000 psi compressive strength is achieved.
SPECIAL PROVISIONS
FOR COLD WEATHER CONCRETE PLACEMENT

1. When early traffic placement on a repair is required, the following guidelines are provided as a minimum to assure required strength during cold weather. The Contractor is responsible for the protection and quality of concrete placed during all weather conditions. If circumstances occur which preclude following these guidelines, lower early strength may result in delays in opening areas to traffic as desired.

2. Ice, snow, and frost must be removed from the cut prior to placement of concrete. Concrete should not be placed on frozen subgrade. Removal of frozen subgrade will be paid as unclassified excavation.

3. Fresh concrete temperatures shall be a minimum of 65°F and a maximum of 90°F at time of placement. Hot mix water and preheated aggregate may be necessary to accomplish the minimum temperature during extremely cold weather. The minimum ambient temperature at time of placement should be at least 30°F.

4. Insulated blankets should be placed immediately when average daily temperatures are below 50°F or when minimum ambient temperatures are anticipated below 40°F during the curing period and left in place until opening to traffic. Insulated blankets shall be MA KA closed cell insulated blankets or approved equal. The insulated blankets shall have a minimum R-value of 2. Cost of insulated blankets shall be included in the price bid for the concrete where they are used.

5. Strict compliance with mix design slumps must be achieved to reach early strengths. "Drying out" of excessive slump mixes will not be allowed to reduce the slump.

6. All cold weather practices also apply to cementitious backfill material, except that blankets will not be required.
SPECIAL PROVISIONS
FOR CRACK SEALING OF AC STREETS
WITH RUBBERIZED ASPHALT

All cracks from ¼" wide to 1" wide shall be routed, blown and filled with rubberized asphalt by use of a melter-applicator as described in ASTM D3405 XI. I. If the manufacturer of the sealant has specifications that exceed those of ASTM D3405, then the manufacturer's specifications will be used.

Fill cracks to within 1/8 inch below pavement surface and blot any excess with approved material (no ridges).

Sealant material shall meet the requirements of ODOT 701.08 "Joint Fillers and Sealers" and meet or exceed ASTM D3405-78.

Asphalt crack seal will be measured by the linear feet of cracks that are sealed, excluding the areas that are patched.

The accepted quantities measured as provided above will be paid for at the Contract unit price as asphalt crack seal by the linear feet of cracks that are sealed, excluding the areas that are patched, which shall be full compensation for furnishing all materials, equipment, labor and incidentals to complete the work specified.

Approval of Joints: At the City of Tulsa’s request, a representative of the sealant supplier will be on site at the beginning of the final cleaning and sealing of the joint to demonstrate to the Contractor and to Inspection the acceptable standard for installation of the sealant. No sealing shall commence until the manufacturer's representative has approved the joints. Failure of the sealant to bond to the joint/crack surfaces will be cause for rejection and repair shall be at the Contractor’s expense.

Submittals: No work shall begin until the Contractor has submitted the following to the City as a minimum:

A. Manufacturer’s Material Specifications
B. Manufacturer’s Installation Specifications
C. Manufacturer’s Joint/Crack Dimension Specifications.

Concrete curb: Concrete curb and combined curb and gutter to be removed and replaced shall receive joints per ODOT Specification 609.04(e) and be sealed with silicone. Costs for joints and sealer to be included in the unit price bid for either concrete curb or combined curb and gutter.

All sawing necessary for sealing shall be included in the cost of the sealant where used.

CSAS - 1
SPECIAL PROVISIONS
FOR SPECIAL SPECIFICATION
OF HANDICAP RAMP

This work shall consist of the construction of concrete handicap ramps in reasonable
close conformity with the location, lines and grades shown on the Standard Drawing for
"Typical Curb Ramp" or established by the Engineer.

Materials and Methods of Construction shall meet ODOT specification 610.02 and
610.04 of the standard specifications.

The subgrade for ramps shall be compacted to a density of 90% standard density for
depth of 6".

The minimum thickness of concrete on any portion of the ramp shall be 6" except in that
portion of the ramp which extends over the pavement, which shall be 8".

The handicapped ramp shall be flush where it meets the street. This will supersede the
standard drawing.

The handicapped ramps shall be installed according to City of Tulsa Standard Drawing No.
790—Standard Sidewalk Ramp.

Construction of handicap ramps will be measured by each ramp and shall be paid for at
the contract unit price for:

HANDICAP RAMP

Which shall be full compensation for performing the work specified and the furnishing of
all materials, labor, tools, equipment and incidental necessary to complete the work as
specified. Aggregate base, truncated domes and pipe railing, if necessary, shall be paid
for separately.
SPECIAL PROVISIONS
FOR SPECIAL SPECIFICATION
OF HIGH EARLY STRENGTH CONCRETE

DESCRIPTION

This work shall consist of furnishing and placing, High Early Strength Concrete.

MATERIALS

High Early Strength Concrete shall conform to Section 701, Portland Cement Concrete, of the Oklahoma Department of Transportation (ODOT) Standard Specification for Highway Construction, Current Edition, with the following modifications:

<table>
<thead>
<tr>
<th>Material</th>
<th>Specification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Air Content</td>
<td>5-7 percent</td>
</tr>
<tr>
<td>Maximum Water - Cement Ratio</td>
<td>0.41</td>
</tr>
<tr>
<td>Slump</td>
<td>1-3 inches</td>
</tr>
</tbody>
</table>

Batching shall measure the weights of each material required within a tolerance of one percent for cement and two percent for aggregates (account for moisture content). The quantity of water used shall be within plus or minus one percent of that required by the design. Water may be measured either by volume or by weight. All materials shall be used in strict accordance with the manufacturer's recommendations.

Submittals shall be delivered to the City of Tulsa at a date set by the Engineer. Submittals shall include the items outlined in ODOT Specification 701.03.

CONSTRUCTION METHODS

The concrete shall be mixed between 70 to 100 revolutions of the ready-mix truck. Mixing shall be in a mechanical mixer capable of combining the aggregates, cement, and water into a thoroughly mixed and uniform mass within the manufacturer's specified mixing period. There shall be no water in the mixing drum prior to adding the aggregates.
Following are the testing requirements for the High Early Strength Concrete mix:

**Compressive Strength:**
- 2,500 pounds per square inch (psi) – 12 hours
- 3,000 psi – 24 hours

**Slump:**
- 1 inch minimum
- 3 inches maximum

**Air Content:**
- 5-7 percent

---

1 During cool weather (less than 50 degrees Fahrenheit), specimens shall be cured in a fully insulated closed box.

During moderate weather (between 50°F and 80°F), specimens shall be cured in both open and fully insulated closed boxes with compressive strength tests performed on specimens from each curing box.

During warm weather (greater than 80°F), specimens shall be cured in a closed box placed in a shaded area.
SPECIAL PROVISIONS
FOR HOT MIX ASPHALT

DESCRIPTION
This work shall consist of furnishing and placing Hot Mix Asphalt

MATERIALS
Hot Mix Asphalt shall conform to Section 708, Plant Mix Bituminous Bases and Surfaces, of the Oklahoma Department of Transportation (ODOT) Standard Specification for Highway Construction, Current Edition, with the following modifications to Table 708:6

<table>
<thead>
<tr>
<th></th>
<th>S3</th>
<th>S4</th>
<th>S5</th>
</tr>
</thead>
<tbody>
<tr>
<td>Asphalt Cement</td>
<td>5.0</td>
<td>6.0</td>
<td>6.0</td>
</tr>
<tr>
<td>% of mix mass (greater than or equal to)</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Submittals shall be delivered to the City of Tulsa at a date set by the Engineer. Submittals shall include the test results of the physical properties of the aggregate and asphalt cement as outlined in ODOT Specification 708.
SPECIAL PROVISIONS
FOR JOINT / CRACK SEAL OF PCC STREETS WITH SILICONE

All joints from ¼” wide to 1” wide shall be sawed, blown and filled with silicone in accordance with ODOT Specifications 419. All random cracks shall be cleaned by suitable tools (no routing), blown and filled with silicone that meets ODOT specification 701.08G.

Sealing Instructions: All aspects of the material application shall as a minimum meet the specifications of ODOT 701.08G. When material covered by that specification is used for maintenance or resealing of joints that have previously contained either similar or dissimilar sealant material, it is required that the joint be dry, cleaned thoroughly with a plow, wire brush, concrete saw, or other suitable tool or tools that are designed for the purpose of neatly cleaning pavement joints. Loose material shall be blown out. The sidewalls of the joint space to be sealed shall be thoroughly sandblasted, blown free of loose sand with high-pressure air and then sealed with sealant. If the manufacturer of the sealant has specifications that exceed those of ODOT 701.08G, then the manufacturer’s specifications will be used.

Joint Shape Requirements: Specifications for the dimensions of joints and cracks shall be the same as those recommended by the sealant manufacturer.

Sealant Material: The construction of concrete joint rehabilitation shall meet the requirements of ODOT 701.08. “Joint Fillers and Sealers”, except that the sealant material for concrete joint/crack rehabilitation shall meet or exceed the requirements of ODOT 701.08G.

Method of Measurement: Concrete joint rehabilitation and concrete crack seal will be measured by the linear feet of joints/cracks that are sealed, excluding the areas that are patched.

Basis of Payment: The accepted quantities measured as provided above will be paid for at the Contract unit price for Crack and Joint Sealer by the linear feet of joints/cracks that are sealed, excluding the areas that are patched, which shall be full compensation for furnishing all materials, equipment, labor and incidentals to complete the work specified. All sawing necessary for sealing shall be included in the cost of the sealant where used.
Approval of Joints: At the City of Tulsa’s request, a representative of the sealant supplier will be on site at the beginning of the final cleaning and sealing of the joint to demonstrate to the Contractor and to Inspection the acceptable standard for installation of the sealant. No sealing shall commence until the manufacturer’s representative has approved the joints. Failure of the sealant to bond to the joint/crack surfaces will be cause for rejection and repair shall be at the Contractor’s expense.

Concrete Curb: Concrete curb and combined curb and gutter to be removed and replaced shall receive joints per ODOT specification 609.04(e) and be sealed with silicone. Costs for joints and sealer to be included in the unit price bid for concrete curb and gutter. The sealant for the curbs shall meet the requirements of ODOT 701.08F.

Submittals: No work shall begin until the Contractor has submitted the following to the City as a minimum:

A. Manufacturer’s Material Specifications
B. Manufacturer’s Installation Specifications
C. Manufacturer’s Joint/Crack Dimension Specifications
D. A 3 Year History of Sealing Projects
SPECIAL PROVISION
MINIMUM ASPHALT RETAINED STRENGTH

This Special Provision revises, amends, and where in conflict, supersedes applicable sections of the 2009 Oklahoma Department of Transportation Standard Specifications for Highway Construction, (ODOT).

The "% Retained Strength, min." for asphalt as listed in ODOT Section 708 Table 6A "PROPERTIES OF LABORATORY MOLDED SPECIMENS" shall be 80%.
SPECIAL PROVISIONS
FOR PATCHING OF CONCRETE AND ASPHALT STREETS

The City of Tulsa Standards for street cut and repair shall be followed for materials and procedures except as modified here.

Patching
Instructions: Portland Cement concrete patches will be protected from all traffic for a period of 24 hours before removal of protective devices. Sawing of the patches is required. The area to be removed shall be marked by the Contractor under the direction of the Resident Inspector. The Contractor will provide personnel and equipment for making of patches as directed by Resident Inspector. When completed, the patch shall be level and provide a smooth riding surface. All asphalt patch work will require that asphalt rollers and an asphalt laydown machine be available for use on the job as directed by the engineer. The minimum size of any patch shall be 3' x 3'.

Testing of
Materials: The frequency of testing shall be as follows:

Subgrade Compaction: A minimum of one (1) density test of the subgrade shall be done per patch.

Concrete: Three cylinders shall be taken from every 50 cubic yards of concrete and tested for compressive strength.

Asphalt: Compaction and extraction tests shall be taken a minimum of every 50 tons of asphalt.

Weather Limitations: The minimum temperature of the foundation course on which asphalt concrete may be laid shall be as shown in the following table:

<table>
<thead>
<tr>
<th>Compacted Lift Thickness (inches)</th>
<th>Surface Temperature (minimum)</th>
</tr>
</thead>
<tbody>
<tr>
<td>3 or more</td>
<td>40° F</td>
</tr>
<tr>
<td>1 ½ to 3</td>
<td>45° F</td>
</tr>
<tr>
<td>less than 1 ½</td>
<td>50° F</td>
</tr>
</tbody>
</table>

Asphalt
Materials: All asphaltic concrete used for this Project shall meet the specifications of ODOT Section 708. Under the paragraph, "Course Aggregates", the
following sentence shall be added: When tested for soundness, the number of cycles shall be five (5), the solution shall be Na2 SO, the maximum loss shall be 10%.

Type I Patch
Subgrade
Replacement: Shall consist of the removal of subgrade material as measured from the bottom of the existing pavement. The removed subgrade material shall be replaced with separator fabric meeting the requirement of ODOT Section 325 and aggregate material meeting the requirement of ODOT Section 703.01 Type “A”. The existing subgrade shall be compacted to 95% standard proctor density per AASHTO T-99 and the aggregate material shall be compacted to 98% modified proctor density per AASHTO T-180-86 Method as measured by the Nuclear Density Method. Compaction shall be done with a roller or vibratory hand tamper. Certain situations may require substitution of Quick-set Fill Concrete for aggregate material. Fill concrete specifications are shown on the Standards for Pavement Cut and Repair. Separator fabric shall be used at all full depth pavement patches where aggregate base is required, as directed by the Engineer. The fabric shall be cut or overlapped to fit the size of the patch. These items will be paid separately from the bid item for patching.

Type A Aggregate
Base: This material shall have the following gradation, which is ODOT Section 703-01 Type “A”.

<table>
<thead>
<tr>
<th>Sieve (mm)</th>
<th>% Passing</th>
</tr>
</thead>
<tbody>
<tr>
<td>1 ½ in. (37.5)</td>
<td>100</td>
</tr>
<tr>
<td>¾ in. (19.0)</td>
<td>40 – 100</td>
</tr>
<tr>
<td>3/8 in. (9.5)</td>
<td>30 – 75</td>
</tr>
<tr>
<td>No. 4 (4.75)</td>
<td>25 – 60</td>
</tr>
<tr>
<td>No. 10 (2.00)</td>
<td>20 – 43</td>
</tr>
<tr>
<td>No. 40 (0.425)</td>
<td>8 – 26</td>
</tr>
<tr>
<td>No. 200 (0.075)</td>
<td>4 – 12</td>
</tr>
</tbody>
</table>

Type I Patch in PCC Pavement: When the patch is made in PCC, the pavement shall be cut with a concrete saw full depth before removal of existing pavement. The area to be patched shall be delineated in a straight-line geometric pattern. Placement of the subgrade stabilization material shall be in accordance with the paragraph, “Type I Patch Subgrade Replacement”. After
placement of the subgrade stabilization, the pavement shall be replaced with Class A High Early Strength concrete containing 4 to 6 percent air entrainment. The concrete shall have a maximum 3” slump. The concrete shall be placed in accordance with the detail in the drawings titled “Type I PCC Patch”. The new concrete shall have a flat finish and match the grade of the adjacent pavement. Existing joint patterns shall be reestablished and sealed as specified. The concrete shall be sprayed with curing compound and protected from traffic a minimum of 24 hours. Cold Joints around the perimeter of the patch shall be sawed and sealed with silicone in accordance with ODOT specification 701.08(E). All sawing, pavement removal, and sealing costs shall be included in the bid item for patching, H.E.S. concrete.

Type I Patch in Asphalt Pavement: When the patch is made in asphalt, the pavement shall be cut with a concrete saw full depth before removal of existing pavement. The area to be patched shall be delineated in a straight-line geometric pattern. Placement of the subgrade stabilization material shall be in accordance with the paragraph “Type I Patch Subgrade Replacement”. After placement of the subgrade stabilization material, the pavement shall be replaced in accordance with the detail in the drawings titled “Type I AC Patch”, a minimum of 8” or existing paving thickness, whichever is greater. All asphalt materials shall meet the specifications of ODOT 708 Plant Mix Bituminous Bases and Surface. The asphalt shall be placed and compacted in maximum 3’ lifts. The edges of the patch shall be tacked prior to placement of asphalt. The asphalt shall be compacted to 92% minimum density as determined by AASHTO T-209 Method. The patch shall be stringlined as required and all areas not matching the adjacent grade shall be immediately corrected. Cold joints around the perimeter of the patch shall be sawed and sealed with rubberized asphalt. All sawing, pavement removal, replacement, and sealing costs shall be included in the bid item for patching, AC.

Type I Patch in APC Pavements: Patching of PCC pavements with an asphalt overlay shall be performed as follows: Placement of the asphalt portion of the patch shall be in accordance with the paragraph “Type I Patch in Asphalt Pavements”. Placement of the PCC portion of the patch shall be in accordance with the paragraph “Type I Patch in PCC Pavements”. Placement of the subgrade stabilization material shall be in accordance with the paragraph “Type I Patch Subgrade Replacement”. After placement of the subgrade stabilization material, the pavement shall be replaced in accordance with
the detail in the drawings titled “Type I APC Patch”. Payment will be made separately for each of the three materials: Type “S4” AC, H.E.S. PCC and Aggregate Base. Initial sawing, pavement removal and sealing costs shall be included in the bid items for patching as listed above. Additional sawing required to go from a Type “III” to a Type “I” patch shall be included in the bid items for H.E.S. PCC.

Type II Patch
In APC
Pavement: The asphalt overlay shall be removed prior to sawing through the PCC Pavement to determine if only the asphalt needs to be patched. Sawing of the asphalt is required, but should not penetrate the PCC pavement. If the PCC pavement needs to be replaced, a Type “I” APC patch shall be made. Payment will be made for Type “S4” or Type “S5” AC only. If only the asphalt is removed, initial sawing, pavement removal, and sealing costs shall be included in the bid items for asphalt concrete.
SPECIAL PROVISIONS
FOR PAVING OPERATIONS

1. If the width of a street is such that it exceeds the paver’s ability to pave one-half the street width another paver will be required and shall be operated so as to lay asphalt on at least one-half of the street width at a time.

2. The longitudinal joint shall run parallel to the approximate center of the street. Transverse joints shall be kept to a minimum. If it becomes necessary to stop the paving operation short of the end of the job then the two transverse joints shall be no farther apart than 6’.

3. If for any reason the Contractor is unable to pave one-half the width of the street with one paver, paving operations shall cease.

4. A paving plan, including sequence of paving passes, pass widths, pass thickness, and requested temporary street closures, will be submitted prior to paving.

5. Once paving begins the Contractor should have sufficient trucks available to deliver asphalt materials in a continuous operation.

6. Adequate transitions to side streets and driveways must be provided. In general, paving shall extend to the returns of all side streets. Special consideration should be given to preventing ponding in side street intersections.

7. The contractor shall provide butt joints as directed by the Engineer. Wherever the planned overlay of an existing street meets existing pavement, or at the end of a paving run, butt joints shall be provided to a depth matching the planned overlay thickness. The transition shall extend a minimum of 10 feet longitudinally from the joint to provide a smooth riding surface. Butt joints will not be paid for directly but the cost shall be included in the cost of the paving operations where they are used.

8. Contractor shall not drive empty or loaded trucks or equipment across newly paved areas for the construction period.

9. A leveling or “wedge” course may be required to establish the required cross-slope for the finished overlay. This item of work will be paid for separately under the bid item designated as Asphalt Concrete Type “S5” in tons.
SPECIAL PROVISIONS
FOR
PRICE ADJUSTMENT FOR ASPHALT BINDER

These Special Provisions revise, amend, and where in conflict, supersede applicable sections of the 2009 Oklahoma Department of Transportation Standard Specifications for Highway Construction. Units of measurements are provided in the subsections in both English and metric equivalents. The units for this project shall be those specified in the project plans.

(add the following;)

109.12 PRICE ADJUSTMENT FOR ASPHALT BINDER.
A price adjustment clause is included in this contract to provide additional compensation to the Contractor or a credit to the City of Tulsa for fluctuations in asphalt binder process. This price adjustment is dependant upon a change in the average price of asphalt binder which results in an increase or decrease in the price of products utilized on this project.

a) Payment will be made to the contractor for monthly fluctuation in the cost of asphalt binder used in performing the applicable items of Asphalt Concrete work as listed in the table below when the asphalt binder cost fluctuates by more than 3% from the base price defined below. Payments may be positive, negative, or nonexistent depending on the circumstances. Payments or deductions will only be calculated on that portion of the asphalt binder cost fluctuation that exceeds the 3% specified above. Payments or deductions for the asphalt binder cost adjustment will be included in the contractor’s progressive estimates; and the payments or deduction authorized for each estimate will be based upon the algebraic difference between the quantities for applicable items of work.

b) The Asphalt Binder Cost Adjustment (ACA) for the current estimate will be computed according to the following formula:

\[ \text{ACA} = Q \times F \times D \]

Where:

\[ \text{ACA} = \text{Asphalt binder cost adjustment, in dollars;} \]
\[ Q = \text{The algebraic difference between the quantities for the applicable items on the current estimate and the quantities shown on the previous estimate, in tons of mix;} \]
\[ F = \text{The Asphalt Binder Use Factor for the applicable items of work subject to this price adjustment, as listed in the following table, are:} \]
<table>
<thead>
<tr>
<th>ITEM OF WORK</th>
<th>SPECIFICATION NUMBER</th>
<th>ASPHALT BINDER USE FACTOR PER UNIT (metric and U.S. Customary units)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Asphalt Concrete, Type S5</td>
<td>411</td>
<td>0.060 ton of binder per ton of mix</td>
</tr>
<tr>
<td>Asphalt Concrete, Type S4</td>
<td>411</td>
<td>0.060 ton of binder per ton of mix</td>
</tr>
<tr>
<td>Asphalt Concrete, Type S3</td>
<td>411</td>
<td>0.050 ton of binder per ton of mix</td>
</tr>
</tbody>
</table>

Note: When the units of measure in the contract for the Items of Work listed in the table do not correspond with the units shown in the table (i.e. Asphalt Concrete paid by the square yard, etc.), those Items will not be subject to the terms of this special provision or any asphalt binder price adjustment.

\[ D = \text{Allowable price differential, in dollars;} \]

The allowable price differential, "D" for the current estimate will be computed according to the following formulas:

When the current price, \( P \), is greater than the base price, \( P_{(b)} \):

\[ D = P - [1.03 \times P_{(b)}], \text{ but not less than zero.} \]

When the current price, \( P \), is less than the base price, \( P_{(b)} \):

\[ D = P - [0.97 \times P_{(b)}], \text{ but not greater than zero.} \]

In either case, \( P_{(b)} \) shall be the base asphalt binder price, in dollars per ton (mtton), defined as the average of the minimum and maximum prices for performance-graded binder using the Selling Price of PG64-22 paving grade, F.O.B. manufacturer's terminal, as listed under "Midwest/Mid-Continent Market - Tulsa, Oklahoma/Southern Kansas area" as published in the last issue of Asphalt Weekly Monitor® furnished by Poten & Partners, Inc. for the month prior to the month in which the bids for the work were received.

In either case, \( P \) shall be the current asphalt binder price, in dollars per ton (mtton), as defined above for the base asphalt binder price. The publication used will be the last issue published in the month prior to the month in which the progressive estimate is generated.

c) Items included in the contract that are listed in the table above are subject to the adjustment in accordance with this provision, regardless of any amount of overrun to the plan quantity. Any new items of work added to the contract by supplemental agreement that are listed in the table above, will be subject to the asphalt binder price adjustments in accordance with this provision. The base asphalt binder price, \( P_{(b)} \), for any newly added eligible items will be the same \( P_{(b)} \) as the eligible items in the contract and the new unit price established by supplemental agreement shall be determined accordingly.

PAFAB-2
SPECIAL PROVISIONS
REMOVAL OF CASTINGS

All water, sanitary sewer, and storm sewer manhole castings, lids, frames, curb hoods, grates, hydrants, valves, and other fittings removed as part of any construction project are property of the City of Tulsa. Contractor will not take ownership.

All storm sewer and sanitary sewer castings shall be salvaged and delivered by the contractor to the Underground Collections North Sewer Base Stockyard at 9319 East 42nd Street North. Contractor will coordinate the return of such items with the Stockyard personnel at 918-669-6130.

All hydrants, valves, and other fittings from abandoned water mains shall be salvaged and delivered by the contractor to the South Yard at 2317 South Jackson Avenue. Contractor will coordinate the return of such items with the South Yard personnel at 918-596-9401.
SPECIAL PROVISIONS
TACTILE MARKERS TRUNCATED DOMES

DESCRIPTION. This work shall consist of installing Truncated Domes.

MATERIAL. The Truncated Domes shall be pre-case concrete pavers with a nominal thickness of 7/8 inch to 2 inches. They shall be constructed with a minimum of 4000 psi concrete. They shall be yellow in color and meet all ADA requirements for color contrast and dimensions.

CONSTRUCTION METHODS. The panels shall be installed according to the manufacturer's recommendations and in accordance with City of Tulsa Standard Drawing No. 790—Standard Sidewalk Ramp.

METHOD OF MEASUREMENT. The Truncated Domes will be measured by the square foot of panel area.

BASIS OF PAYMENT. Accepted panels, measured as provided above, will be paid for at the contract unit price as follows:

<table>
<thead>
<tr>
<th>TRUNCATED DOMES</th>
<th>SQUARE FOOT</th>
</tr>
</thead>
</table>

Such payment shall be full compensation for furnishing all materials, equipment, labor and incidentals to complete the work as specified.
SPECIAL PROVISIONS FOR TREE REMOVAL

DESCRIPTION. This work shall consist of removing trees where called for on the Plans and shall include cutting such trees, removing their stumps and roots, and properly disposing of the material.

CONSTRUCTION METHODS. Trees shall be removed and disposed of in a manner approved by the Engineer. All stumps and roots shall be removed to a depth of not less than 12 inches below the finished subgrade elevation.

METHOD OF MEASUREMENT. The size of trees will be determined by the average diameter of the tree trunk taken at a point measured four feet above the base of the tree at the ground line. The diameter will be measured to the nearest full inch.

BASIS OF PAYMENT. Trees to be removed under this item will be measured as provided above and will be paid for at the contract unit price per each tree in accordance with the following schedule of size:

(A) REMOVING TREES 6-12 INCH IN DIAMETER
(B) REMOVING TREES 13-18 INCH IN DIAMETER
(C) REMOVING TREES 19-24 INCH IN DIAMETER
(D) REMOVING TREES 25 INCH AND MORE IN DIAMETER

which shall be full compensation for furnishing all materials, equipment, labor and incidentals to complete the work as specified.

Removing trees less than 6 inches in diameter will be considered as incidental work and will not be paid for directly but the cost will be included in other items.
SPECIAL PROVISIONS
FOR SPECIAL SPECIFICATION
OF TYPE I MONUMENT PAYMENTS

Under this item, the Contractor shall furnish and place for the payment requested for each monument, all materials, labor, equipment, and incidentals necessary to complete the work as shown on the sketch on the following page. The brass marker shall be provided by the City. The 5/8 inch rebar shall be a minimum of 36 inches in length. The locations will be as ordered by the Engineer.

Materials will be in accordance with Section 626.02 of ODOT's Standard Specifications for Highway Construction, current addition, with Accelerated High Early Strength Concrete substituted for Portland Cement Concrete.
SPECIAL PROVISIONS

URBAN RIGHT OF WAY RESTORATION

DESCRIPTION:
The work under this item shall consist of restoring Rights-of-Way. Contractor shall be responsible for the removal and replacement of mailboxes, drains, traffic signs, and curb street address number, sprinkler system or any other improvement within the right of way that is not paid for in other items of work.

CONSTRUCTION REQUIREMENTS:
All existing improvements as called for in this special provision to be replaced or reconstructed shall be restored to substantially the same condition as existed prior to the construction. Contractor shall document by photographing all obstructions and improvements prior to the start of construction.

As the work progresses, all streets shall be thoroughly cleaned of all rubbish, excess earth, rock, and other debris resulting from such work. All clean-up operations at the location of such work shall be accomplished at the expense of the contractor and shall be completed to the satisfaction of the engineer.

IRRIGATION SYSTEMS

DESCRIPTION:
The work shall consist of repairing any irrigation systems inside or outside the street Right of Ways as a result of damages or adjustments needed during the course of the construction to the satisfaction of the engineer.

CONSTRUCTION REQUIREMENT:
Contractor shall repair irrigation systems using like materials and shall include all materials necessary for the proper installation and function of the system. Materials such as valves, controllers, pop up spray and rotary heads, risers, seals, backflow preventer and main line pipe damaged during the course of the construction shall be re installed to its original condition. Excavation, placement, testing, back filling and compacting shall be done as required by the city of Tulsa standard specifications.

STREET ADDRESS AT CURB

DESCRIPTION:
The street address of the building, structure or lot served by the reconstructed driveway shall be painted on the curb of the driveway. Location to be approved by the Engineer. The street address shall face traffic flow.

CONSTRUCTION REQUIREMENTS:
The Street Address to be painted shall conform to city specifications as to size and form, and the
quality of paint to be used, as determined by the City of Tulsa Public Works Department.

Street Address placed on the curb shall be done using a vinyl numbers stencils; letters shall be in black paint in figures of the size of three inches in height, and impressed upon a white background of the size of five by eleven inches. Standard stencil lettering with height, color and style shall be as approved by the engineer or in accordance with the most current City of Tulsa Standards.

MAILBOX REMOVAL AND RELOCATION

DESCRIPTION:
Contractor shall remove, reset and/or reconstruct any and all mailboxes within the street right of way.

CONSTRUCTION REQUIREMENTS:
The removal, resetting and/or reconstruction of mail boxes in street right of way shall be coordinated with the local postmaster as required. Mailboxes shall be located no closer than 1' behind the face of curb to face of box.

Where Special mailboxes such as Stone, masonry brick, or non standard mail boxes exist, contractor shall replace all mailboxes in like kind. The kind and quality of materials in which mailboxes shall be reconstructed shall be to the satisfaction of the property owner and approved by the engineer.

The replaced mailbox shall be capable of withstanding wind loading and lateral load associated with the delivery of the mail.

DRAINS

DESCRIPTION:
Contractor shall reestablish drains, roof drains, and other drainage through the curb.

CONSTRUCTION REQUIREMENTS:
Removal, replacement, salvage of drains in street right of way shall be done during road construction phase.

Contractor shall replace all drains in like kind. The kind and quality of materials in which drains shall be reconstructed shall be to the satisfaction of the property owner and approved by the engineer.

All re-established drains shall include a storm water curb opening as described in City of Tulsa Standard Drawing 758.
TRAFFIC SIGNS

DESCRIPTION:
Unless otherwise directed by the plans and specifications, this item shall consist of removing, storing, and resetting all existing traffic signs. Contractor shall remove, store, and reset all traffic signage as required for construction of this project.

CONSTRUCTION REQUIREMENTS:
Roadside signs shall be placed at locations shown on the plans or at existing locations and shall be installed in compliance with the latest edition of the Manual on Uniform Traffic Control Devices (MUTCD).

METHOD OF MEASUREMENT:
Irrigation Systems, Street Address at the Curb, Mailbox Removal and Relocation, Drains, and Traffic Signs will be measured by EACH for the project.

PAYMENT:
Special (C) Urban Right-Of Way Restoration (measured as provided above) will be paid for at the contract unit price by EACH. Such payment shall be full compensation for all equipment, tools, labor, and incindentals necessary to complete the work as specified.

Special (C) Urban Right-Of-Way Restoration ................................EACH
STORM WATER CURB OPENING

- Drain From House
- ATTACH DRAIN FROM HOUSE WITH COUPLER AND WATER TIGHT BAND CLAMP PER MFGR RECOMMENDATION.

SECTION A-A

RESIDENTIAL CURB INLET

1. CONTRACTOR SHALL RECONNECT ANY SIDE DRAINS FROM ADJACENT PROPERTY THROUGH THE CURB.
2. INSTALL R-3262-3 SERIES HEAVY DUTY STORM WATER CURB OPENING BY NEENAH OR APPROVED EQUAL.
3. FIELD VERIFY SIZE AND LOCATION PRIOR TO PAVING OPERATIONS.
4. CONTRACTOR SHALL CAST INLETS IN PLACE DURING CURB PRODUCTION "CUT IN" NOT ACCEPTED.

URWR-4
SPECIAL PROVISION
FOR UTILITY RELOCATIONS
AND DESIGN ISSUES

It is the intent of this specification to provide no more than seventy-five (75) calendar days due to delays caused by required utility relocations and required design clarifications. Should the Contractor be delayed in the final completion of work by any utility relocation or design issue, additional days as determined by the Engineer shall be granted by the City. However, the Contractor shall give the Engineer notice in writing of the cause of the delay in each case on the Extension of Time Request Form enclosed in these documents, and agrees that any claim shall be fully compensated for by the provisions of this specification to complete performance of the work. An adjustment will not be made to the contract time bid for incentive purposes.

Any time granted for utility relocations or design issues up to seventy-five (75) calendar days will be in addition to the number of days shown in the proposal for computation of disincentive and liquidated damages.