



Union Avenue Bridge Resurfacing - Overlay

CONTRACT DOCUMENTS

**Project No. 17-038
HU1502**

April 4, 2017

**Department of Public Works
211 East "D" Street
Pueblo, CO 81003**

**Purchasing Department
230 South Mechanic Street
Pueblo, CO 81003**

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The ***Standard Construction Specifications and Standard Details for City of Pueblo, Colorado***, adopted March 28, 2005, are hereby included by reference and all provisions thereof shall be applicable. By submitting a bid, the Contractor acknowledges possession of a copy of said document.

MANDATORY SUBMITTALS

Deliver all submittals to: City of Pueblo
Purchasing Office
230 S. Mechanic Street
Pueblo, Colorado 81003

Clearly mark on the outside of the package:

Project No: 17-038 (HU1502)

Project Name: Union Avenue Bridge Resurfacing - Overlay

Deadline: April 19th, 2017 at 10:00:00 AM

Submittals

Submitted

NOTE: ALL submittals requiring a signature MUST be signed.

- | | |
|---------------------------------------------------------------------------|--------------------------|
| 1. <u>Bid Bond</u> | <input type="checkbox"/> |
| 2. <u>Acknowledgement of Affirmative Action Plan Requirement (signed)</u> | <input type="checkbox"/> |
| 3. <u>P.E.R.A. Questionnaire (signed)</u> | <input type="checkbox"/> |
| 4. <u>Any Addenda acknowledgement sheets *</u> | <input type="checkbox"/> |
| 5. _____ | <input type="checkbox"/> |
| 6. _____ | <input type="checkbox"/> |

*(Available on City's website, www.pueblo.us/purchasing or the Rocky Mountain E-Purchasing System (RMEPS) website. It is the proposers' responsibility to verify whether any Addenda were issued prior to submitting the proposal)

The undersigned having carefully read the contract documents for the above-referenced project, acknowledges that all required submittals are included in this bid proposal. **In addition to those items listed above, Bidders must turn in all of Article 1 (A, B, C, D, E, F, G, & H), all of Article 2 – Special Provisions, all of Article 2A-1 – Labor Provisions and all of Article 3 – General Provisions. Failure to do so may result in rejection of the submittal.**

Firm Name: _____

Business Address: _____

Signature: _____

Printed Name: _____

Title: _____

E-mail Address: _____

Office Phone: _____ Fax: _____ Cell Phone: _____

**ACKNOWLEDGEMENT OF
AFFIRMATIVE ACTION PLAN REQUIREMENT**

Project No: 17-038 (HU1502)

Project Name: Union Ave Bridge Resurfacing - Overlay

In accordance with Article 2A-1: Labor Provision, Section 3: Municipal Contract Provisions, the bidding company named below hereby acknowledges that it has a written affirmative action plan which declares that the Contractor and its Subcontractor(s) do not discriminate on the basis of race, color, religion, creed, national origin, sex or age. I further understand that the written program must be submitted to the City of Pueblo Director of Purchasing (and the applicable federal agency in the case of Federally funded projects) within 10 days of the award of contract.

Neither the receipt by City of this completed form, nor of any Affirmative Action Plan submitted by any bidder, contractor or subcontractor, shall constitute any determination by City of the adequacy of any Affirmative Action Plan.

Signature: _____

Printed Name: _____

Title: _____

Company: _____

Date: _____

**COLORADO PUBLIC EMPLOYEES RETIREMENT ASSOCIATION
 SUPPLEMENTAL QUESTIONNAIRE TO BE ANSWERED BY
 ANY BUSINESS PERFORMING SERVICES FOR THE CITY OF PUEBLO**

Pursuant to section 24-51-1101(2), C.R.S., salary or other compensation from the employment, engagement, retention or other use of a person receiving retirement benefits (Retiree) through the Colorado Public Employees Retirement Association (PERA) in an individual capacity or of any entity owned or operated by a PERA Retiree or an affiliated party by the City of Pueblo to perform any service as an employee, contract employee, consultant, independent contractor, or through other arrangements, is subject to employer contributions to PERA by the City of Pueblo. Therefore, as a condition of contracting for services with the City of Pueblo, this document must be completed, signed and returned to the City of Pueblo:

(a) Are you, or do you employ or engage in any capacity, including an independent contractor, a PERA Retiree who will perform any services for the City of Pueblo? Yes____, No____. (If you answered “no” please proceed to signature section at bottom of this page.)

(b) If you answered “yes” to (a) above, please answer the following question: Are you an individual, sole proprietor or partnership, or a business or company owned or operated by a PERA Retiree or an affiliated party? For purposes of responding this question, an “affiliated party” includes (1) any person who is the named beneficiary or co- beneficiary on the PERA account of the PERA Retiree; (2) any person who is a relative of the PERA Retiree by blood or adoption to and including parents, siblings, half-siblings, children, and grandchildren; (3) any person who is a relative of the PERA Retiree by marriage to and including spouse, spouse’s parents, stepparents, stepchildren, stepsiblings, and spouse’s siblings; and (4) any person or entity with whom the PERA Retiree has an agreement to share or otherwise profit from the performance of services for the City of Pueblo by the PERA Retiree other than the PERA Retiree’s regular salary or compensation. Yes____, No____.

If you answered “yes” please state which of the above entities best describes your business:

_____.

(c) If you answered “yes” to both (a) and (b), you agree to reimburse the City of Pueblo for any employer contribution required to be paid by the City of Pueblo to PERA for salary or other compensation paid to you as a PERA Retiree or paid to any employee or independent contractor of yours who is a PERA Retiree performing services for the City of Pueblo. You further authorize the City of Pueblo to deduct and withhold all such contributions from any moneys due or payable to you by the City of Pueblo under any current or future contract or other arrangement for services between you and the City of Pueblo.

Please provide the name, address and social security number of each such PERA Retiree. If more than two, please attach a supplemental list.

Name	Address	Social Security Number
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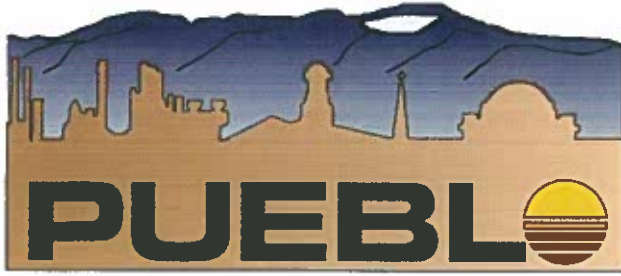
Name	Address	Social Security Number
------	---------	------------------------

Failure to accurately complete, sign and return this document to the City of Pueblo may result in you being denied the privilege of doing business with the City of Pueblo.

Company Name: _____

Authorized Signature: _____ Title: _____

Printed Name: _____ Date: _____



Pueblo Regional Building Department
830 N Main St. Suite 100
Pueblo CO 81003
719-543-0002 fax 719-543-0062

www.prbd.com

To Whom It May Concern:

The law requires that licensed contractors perform all construction work. It is a violation of the law to perform construction without a license and it is equally a violation to hire someone to perform construction unless the party hired is a licensed contractor or is on the payroll of the company hiring, as an employee.

Basic license categories are General Contractor A, B, and C; Electrical Contractor, Plumbing Contractor, and HVAC Contractor A and C. In addition, there are Contractor D single trade licenses, which are the type used by the majority of sub-contractors. Those trades requiring licenses include, but not limited:

Awning Installation	Concrete
Demolition	Drywall
Elevators	Excavation
Framing	House Moving
Masonry	Ornamental Iron
Asphalt Paving	Roofing
Utility Cont. Fire Main	Plumbing Lawn Sprinkler
Systems	Utility Cont. Sewer
Utility Cont. Water	Siding
Sign Erection	Stucco
Structural Steel	U Occupancy (garages,sheds, etc.)
Mechanical A Unlimited	Mechanical C Limited (any 2 of 3)
Mechanical Gas Work	Mechanical C Refrigeration
Mechanical C Sheet Metal	Journeyman Gas Fitter
Journeyman Refrigeration	Journeyman Sheet Metal
Plumbing Swimming Pool	Utility Cont. Sewer & Water
Plumbing Water Connected appliances	

If you have any question feel free to contact our office at 719-543-0002.

PLEASE NOTE

SALES AND/OR USE TAX INFORMATION

CITY OF PUEBLO SALES OR USE TAX -

The Contractor and any Subcontractors shall pay all applicable City of Pueblo Sales or Use taxes. All General Contractors and Subcontractors are mandated to be licensed with the City of Pueblo Sales Tax Office. Please refer any questions on City Sales or Use Taxes to the City of Pueblo, Department of Finance. Their telephone number is (719) 553-2659.

Please note, there are NO tax-exempt projects within the City of Pueblo.

STATE OF COLORADO SALES OR USE TAX -

The exemption of building materials from State Sales or Use Tax in Colorado Revised Statutes applies only to the State of Colorado Sales or Use Taxes. Please refer any questions on State Taxes to the State of Colorado, Department of Revenue.

PUEBLO COUNTY SALES OR USE TAX -

The State of Colorado collects all sales or use tax for the County of Pueblo; therefore any exemption allowed by the State applies to the County.

ARTICLE I

A. ADVERTISEMENT FOR BIDS

TO WHOM IT MAY CONCERN:

The City of Pueblo will receive sealed bids up to the hour of 10:00:00 AM (MT) on the 19th day of April 2017, at the City's Purchasing Department, 230 South Mechanic Street, Pueblo, Colorado, 81003, 719-553-2350, for the following:

PROJECT NO.: 17-038 (HU1502)

PROJECT NAME: Union Avenue Bridge Resurfacing - Overlay

PRE-BID MEETING: April 12, 2017 at 1:30 PM in the Department of Public Works Conference Room, 211 E. "D" Street, Pueblo, CO, 81003

In general, this project will consist of asphalt resurfacing (overlay), roto-milling, asphaltic plug bridge joint replacement, adjustment of manholes, inlaid traffic markings and various incidentals related to the construction as detailed in the plans and the specifications for this project.

Proposers shall inform themselves of the conditions of the project site and the requirements of the project's scope of work before submitting their proposal. No allowances shall be made by reason of any matter or thing concerning which they might not have been fully informed prior to the bidding. No Proposer will be heard after the opening of proposals to assert that there was any misunderstanding as to the nature of the operation expected in this solicitation. If a pre-bid meeting is held, Proposers should make every effort to attend. If the pre-bid meeting is **mandatory** and the Proposers cannot attend, it is imperative that someone else attend as a representative of the company, otherwise, their bid will not be accepted at the time of bid opening.

IFB documents (including plans and specifications) can be obtained on the City website at www.pueblo.us/purchasing or via the Rocky Mountain E-Purchasing System website at www.BidNetDirect.com/colorado. Please be advised that electronic submissions (i.e. emails, fax, etc.) will not be accepted. Addenda will be posted only on the City Purchasing Department and RMEPS websites. **It is the bidder's responsibility to verify whether any addenda were issued via one of these sites.**

Each bid must be accompanied by a certified check, cashier's check, money order or bid bond in the amount of five (5) percent of the grand total bid, plus all alternates if applicable, payable to the City of Pueblo as a guarantee that if the bid is accepted, the bidder will execute and file the proposed contract and bond within ten (10) days from the date of the award of the contract by City Council.

All bids must be received at the Purchasing Department before the time specified and be enclosed in a sealed envelope plainly marked with the above referenced Project Number and Name. Only bids that are made out upon the City-prepared forms will be considered. Any correction on the bid forms must be initialed by the person signing the bid.

Proposers must follow the submittal procedures outlined in the documents. The bid form must not be separated from the required proposal submittal packet as defined in the Mandatory Submittals checklist. The City reserves the right to reject any or all bids for any or all items covered in the Invitation for Bid, to waive informalities or defects in bids, or to accept such bids as it shall deem to be in its best interest.

Published: April 4, 2017

Naomi C. Hedden, CPPO
Director of Purchasing, City of Pueblo, Colorado

ARTICLE 1

B. REQUEST FOR QUOTATIONS

PROJECT NO. : 17-038 (HU1502)

PROJECT NAME : Union Avenue Bridge Resurfacing - Overlay

All proposals are to be prepared on this form. All blank spaces must be correctly filled in where indicated for each and every item for which a quantity is given, and the bidder must state the prices (written in ink or typewritten) for which he proposes to do each item of the work contemplated or furnish each item of the materials required.

The undersigned, having become familiar with the local conditions affecting the cost of the work, and with the contract documents, including advertisement for bids, the form of proposal, the form of contract, form of bond, special provisions of the contract, general provisions of the contract, etc., plans, drawings and specifications, issued and attached to the contract documents on file in the office of the Purchasing Agent, hereby proposes to furnish all of the labor, materials, necessary tools and equipment and all utility and transportation service necessary to perform and complete in a workmanlike manner all of the work required in connection with the construction of Union Avenue Bridge Resurfacing - Overlay in accordance with the plans and specifications as prepared by or for the City of Pueblo, Colorado, for the sums set forth in the following bidding schedule:

BASE BID – UNION AVENUE:

BID ITEM	DESCRIPTION	ESTIMATED QUANTITY	UNIT PRICE	AMOUNT
1.	Cold Mill Planing – 2” Depth (Roto Milling)	3,861 S.Y.	\$ _____	\$ _____
2.	Construct 2” HMA PG 64-22 SX	535 Ton	\$ _____	\$ _____
3.	Remove & Replace Asphaltic Plug Expansion Joints	3 Each	\$ _____	\$ _____
4.	Adjust Manholes to Finished Grade	2 Each	\$ _____	\$ _____
5.	Traffic Control	1 L.S.	\$ _____	\$ _____
6.	Mobilization	1 L.S.	\$ _____	\$ _____
TOTAL BASE BID			\$ _____	\$ _____

(_____ Dollars)

ADD ALTERNATE NO. 1:

BID ITEM	DESCRIPTION	ESTIMATED QUANTITY	UNIT PRICE	AMOUNT
7.	Pavement Markings - Thermoplastic	1 L.S.	\$ _____	\$ _____
8.	Pavement Striping - Epoxy	1 L.S.	\$ _____	\$ _____
TOTAL ADD ALTERNATE NO. 1			\$ _____	\$ _____

(_____ Dollars)

The contract will be awarded on the basis of the Base Bid, plus those Bid Alternates, if any, selected at the sole discretion of the City to the responsible bidder submitting the lowest and best responsive bid.

The sum of the Base Bid, plus those Bid Alternates, if any, selected at the sole discretion of the City shall be the basis for establishing the amount of the performance and payment bonds for this contract. The total bid is based on quantities shown on the proposal form and on the dimensions shown on the plans, and is subject to additions or reductions according to the actual construction quantities as determined by the Engineer upon completion of the construction.

The City reserves the right to adjust the required quantities and the contractor shall furnish said quantities at the unit price quoted above. The time allowed for construction shall be adjusted in direct proportion of the adjusted quantities to the estimated quantities.

The undersigned has carefully checked the above quantities against the plans and specifications before preparing this proposal and accepts the said quantities as substantially correct, both as to classification and amount, and as correctly listing the work to be done in accordance with the plans and specifications.

The bidder must sign his proposal correctly and in ink; if the proposal is offered by an individual, his name, office and post office address must be shown. If made by a firm or partnership, the name, office and post office address of each member of the firm or partnership must be given; if offered by a corporation, the person signing the proposal must give the name of the state under the laws of which the corporation was chartered, and the name, title and business address of the President, Secretary and the Treasurer. Anyone signing a proposal as agent must file legal evidence of his authority to do so, and that the signature is binding upon the firm or corporation.

The undersigned, if awarded the contract, agrees to complete and file the complete contract and performance bond in quadruplicate within ten (10) days of the date of Notice of Award, and further agrees to complete the work within Thirty-One (31) calendar days plus an additional TEN (10) calendar days for the raising of manholes only.

Liquidated damages will be assessed in accordance with Section 3.54 of ARTICLE 3 - GENERAL PROVISIONS, for every calendar day thereafter until the work is complete and accepted by the City of Pueblo.

NOTE: Bidders should not add any conditions or qualifying statements to this bid as otherwise the bid may be declared irregular as being not responsive to the advertisement for bids.

The contractor shall be subject to all applicable City, County, State and Federal Taxes in the performance of this contract.

Firm Name : _____

Business Address : _____

By : _____

Title : _____

Date : _____ Tele. No. : _____

Fax No. : _____

E-Mail No. : _____

Contractor's Federal I.D. Number : _____

ARTICLE 1
C. BID BOND

KNOW ALL MEN BY THESE PRESENTS:

That _____, of _____, as Principal, and _____, as Surety, are held and firmly bound unto the City of Pueblo, Colorado, as Obligee, in the full and just sum of _____ Dollars (\$ _____), lawful money of the United States, for the payment of which sum, well and truly to be made, we bind ourselves, our heirs, executors, administrators, successors and assigns, jointly and severally, firmly by these presents:

WHEREAS, the said Principal is herewith submitting its proposal dated _____, 2017, for:

17-038 (HU1502)
Union Avenue Bridge Resurfacing - Overlay

and said Obligee has required as a condition for receiving said proposal that the Principal deposit specified Proposal Guaranty in the amount of not less than five per cent (5%) of the amount of said proposal, conditioned that in event of failure of the Principal to execute the Contract Agreement for such construction and furnish required Performance Bond if the Contract is awarded him, that said sum be paid immediately to the Obligee as liquidated damages and not as penalty for the Principal's failure to perform.

The condition of this obligation is such that if the aforesaid Principal, shall within the period specified therefor, on the prescribed form presented to him for signature, enter into a written Contract Agreement with the Obligee in accordance with his bid as accepted, and give required Payment and Performance Bonds with good and sufficient surety or sureties, upon the form prescribed by the Obligee, for the faithful performance and the proper fulfillment of said Contract, or in the event of withdrawal of said bid within the time specified, or upon the payment to the Obligee of the sum determined upon herein as liquidated damages, and not as penalty in the event the Principal fails to enter into said Contract and give such Payment and Performance Bonds within the time specified, then the obligation shall be null and void, otherwise to remain in full force and effect.

(Bid Bond)

Signed, sealed and delivered this _____ day of _____, 20__ .

ATTEST:

By _____ , _____
Secretary Principal

(SEAL)

By _____

Surety

ATTEST:

By _____ , By _____
Attorney-in-fact

(SEAL)

ARTICLE 1
D. NOTICE OF AWARD

City of Pueblo, Colorado

(Date)

To: _____

The City of Pueblo, Colorado, having considered the Proposals submitted on June 15, 2016 for the construction of **Project No. 17-038 (HU1502), Project Name: Union Avenue Bridge Resurfacing - Overlay**, Pueblo, Colorado, and it appearing that your proposal of \$ *[Bid Amount, in numbers], [Bid Amount, in words]* Dollars is fair, equitable, and in the best interest of the City, and the City Council of Pueblo, having authorized the work to be performed, the said Proposal is hereby accepted at the bid prices contained therein. In accordance with the terms of the Contract Documents, you are required to execute the formal Contract Agreement and furnish the required Payment Bond and Performance Bond, within ten (10) consecutive calendar days from and including the date of this notice.

The Proposal Guaranty submitted with your proposal will be returned upon execution of the Contract Agreement and the furnishing of the Payment Bond and Performance Bond. In the event you should fail to execute the Contract Agreement and furnish the Bonds, within the time specified, said Proposal Guaranty will be retained by said City as liquidated damages and not as penalty, for the delay and extra work caused thereby.

CITY OF PUEBLO

Purchasing Agent

ARTICLE I

E. CONTRACT AGREEMENT

THIS AGREEMENT made and entered into this _____ day of _____, 2017, by and between the City of Pueblo, a Municipal Corporation, hereinafter referred to in the Contract Documents as the " City ", and _____, referred to in the Contract Documents as " Contractor ".

WITNESSETH : In consideration of the sum to be paid by the City to the Contractor at the time and in the manner hereinafter provided, the said Contractor has agreed, and does hereby agree, to furnish all labor, tools, equipment and material and to pay for all such items, and to construct complete in every detail, To-Wit :

**Project No. 17-038 (HU1502)
Union Avenue Bridge Resurfacing - Overlay**

At the prices bid on the Proposal Form, in accordance with the drawings and specifications, and all Contract Documents for this project which are on file and available for inspection in the office of the Director of Public Works of Pueblo, all to the satisfaction of the Director of Public Works for the City of Pueblo, Colorado

AND FOR SAID CONSIDERATION IT IS FURTHER AGREED BY AND BETWEEN THE PARTIES TO THIS AGREEMENT AS FOLLOWS :

1. Construction and installation of the above enumerated work for the City shall be completed and ready for use in accordance with the time of completion described in the Proposal Form of this Contract. This time shall be extended only for those periods set forth in the Contract Documents and in accordance with the requirements of same.
2. The work and material for the project covered by the Contract Documents shall be completely installed and delivered to the City within the time above stated, clear and free from any and all liens, claims and demands of any kind.
3. The full compensation to be paid to the Contractor by the City, pursuant to the terms of this Contract, shall be payable as provided in the Contract Documents.

(Contract Agreement)

4. This Contract consists of the following component parts and documents, all of which taken together constitute and are referred to as the Contract Documents, and the same are incorporated as part of the Contract as if set out herein verbatim, whether the same have been attached hereto or not:

Article 1	A. Advertisement for Bids B. Proposal C. Bid Bond D. Notice of Award E. Contract (This Instrument) F. Performance Bond G. Payment Bond H. Notice to Proceed
Article 2	Special Provisions
Article 2A-1	Labor Provisions
Article 3	General Provisions

The ***Standard Construction Specifications and Standard Details for City of Pueblo, Colorado***, adopted March 28, 2005, are hereby included by reference and all provisions thereof shall be applicable. By submitting his bid, the Contractor acknowledges that he possesses a copy of said document.

Addenda No. _____, _____, _____.

Plans (Drawings and Specifications) - Sheets 1 thru 3

5. Title XII, Chapter 2, of the 1971 Code of Ordinances, City of Pueblo, adopted by Ordinance No. 3476, and amended by Ordinance No. 4476 and 5229, shall be considered a part of this contract.
6. Title I, Chapter 8, of the 1971 Code of Ordinances, City of Pueblo, adopted by Ordinance No. 4479, shall be considered a part of the contract.
7. All of the covenants and agreements set forth in the Contract Documents shall inure to the benefit of and be binding upon City and Contractor and their respective heirs, legal successors and assigns and shall be governed by the laws of the State of Colorado.

(Contract Agreement)

IN WITNESS WHEREOF, the parties hereto have caused this instrument to be executed in four (4) original counterparts as of the day and year first above written.

Contractor

By _____

Title _____

PUEBLO, A MUNICIPAL CORPORATION

By _____
Purchasing Agent

ATTEST:

City Clerk

BALANCE OF APPROPRIATION EXISTS FOR
THIS CONTRACT AND FUNDS ARE AVAILABLE:

Director of Finance

APPROVED AS TO FORM:

City Attorney

ARTICLE 1

F. PERFORMANCE BOND

Bond Number _____

KNOW ALL MEN BY THESE PRESENTS:

That we _____ a _____
(Name of Contractor) (Corporation, Partnership, or Individual)

hereinafter called "Principal" and _____
(Surety)

of _____, State of _____, hereinafter called the "Surety", are held and firmly bound unto the City of Pueblo, a Municipal Corporation,

hereinafter called "City", in the penal sum of _____ Dollars

(\$ _____) in lawful money of the United States, for the payment of which sum well and truly to be made, we bind ourselves, our heirs, executors, administrators, and successors, jointly and severally, firmly by these presents.

THE CONDITION OF THIS OBLIGATION is such that Whereas, the Principal entered into a certain contract with the City, dated the _____ day of _____, 2017, a copy of which is hereto attached and made a part hereof for the construction of:

**Project No. 17-038 (HU1502)
Union Avenue Bridge Resurfacing - Overlay**

NOW, THEREFORE, if the Principal shall well, truly and faithfully perform its duties, all the undertakings, covenants, terms, conditions and agreements of said contract during the original term thereof (including all warranty periods), and any extensions thereof which may be granted by the City, with or without notice to the Surety, and if he shall satisfy all claims and demands incurred under such contract, and shall fully indemnify and save harmless the City from all costs and damages which it may suffer by reason of failure to do so, and shall reimburse and repay the City all outlay and expense which the City may incur in making good any default, then this obligation shall be void; otherwise to remain in full force and effect.

PROVIDED, FURTHER, that the said 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 to the specifications accompanying the same shall in any way effect 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 work or to the specifications.

PROVIDED, FURTHER, that no final settlement between the City and the Contractor shall abridge the right of any beneficiary hereunder, whose claim may be unsatisfied.

(Performance Bond)

IN WITNESS WHEREOF, this instrument is executed in four (4) counter-parts, each of which shall be deemed an original, this the _____ day of _____, 20____.

Principal

ATTEST :

By _____
Principal Secretary

By _____

(SEAL)

(Address)

By _____
(Witness as to Principal)

(Address)

Surety

ATTEST :

By _____
(Surety) Attorney-In-Fact

By _____
Attorney-In-Fact

(SEAL)

(Address)

By _____
(Witness as to Surety)

(Address)

NOTE: Date of Bond must not be prior to date of Contract. If Contractor is a Partnership, all partners shall execute bond.

ARTICLE 1

G. PAYMENT BOND

Bond Number _____

KNOW ALL MEN BY THESE PRESENTS :

That we _____ a _____
(Name of Contractor) (Corporation, Partnership, or Individual)

hereinafter called "Principal" and _____
(Surety)

of _____, State of _____, hereinafter

called the "Surety", are held and firmly bound unto the City of Pueblo, a Municipal Corporation, hereinafter

called "City", in the penal sum of _____ Dollars

(\$ _____) in lawful money of the United States, for the payment of which sum well and truly to be made, we bind ourselves, our heirs, executors, administrators, and successors, jointly and severally, firmly by these presents.

THE CONDITION OF THIS OBLIGATION is such that Whereas, the Principal entered into

a certain contract with the City, dated the _____ day of _____, 2017, a copy of which is hereto attached and made a part hereof for the construction of:

PROJECT NO.: 17-038 (HU1502)
PROJECT NAME: Union Avenue Bridge Resurfacing - Overlay

NOW, THEREFORE, if the Principal shall promptly make payment to all persons, firms, subcontractors, and corporations furnishing materials for or performing labor in the prosecution of the work provided for in such contract, and any authorized extension or modification thereof, including all amounts due for materials, supplies, lubricants, oil, gasoline, rental machinery, repairs on machinery, equipment and tools, consumed or used in connection with the construction of such work, and all insurance premiums on said work, and for all labor, performed in such work whether by subcontractors or otherwise, then this obligation shall be void; otherwise to remain in full force and effect.

PROVIDED, FURTHER, that the said 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 to the specifications accompanying the same shall in any way effect 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 work or to the specifications.

PROVIDED, FURTHER, that no final settlement between the City and the Contractor shall abridge the right of any beneficiary hereunder, whose claim may be unsatisfied.

(Payment Bond)

IN WITNESS WHEREOF, this instrument is executed in four (4) counter-parts, each of which shall be deemed an original, this the _____ day of _____, 20____.

ATTEST :

Principal

By _____
Principal Secretary

By _____

(SEAL)

(Address)

By _____
(Witness as to Principal)

(Address)

ATTEST :

Surety

By _____
(Surety) Attorney-In-Fact

By _____
Attorney-In-Fact

(SEAL)

Address)

By _____
(Witness as to Surety)

(Address)

NOTE: Date of Bond must not be prior to date of Contract. If Contractor is a Partnership, all partners shall execute bond.

ARTICLE 1

H. NOTICE TO PROCEED

Pueblo, Colorado

(Date)

To: _____

You are hereby authorized to proceed on this date, _____,

2017, or within three (3) consecutive calendar days hereafter with construction of **Project No. 17-038 (HU1502) Union Avenue Bridge Resurfacing - Overlay**, as set forth in detail in the Contract Documents for the City of Pueblo, Colorado.

The Proposal Guaranty submitted with your Proposal is herewith returned to you.

CITY OF PUEBLO

Director of Public Works

ARTICLE 2

SPECIAL PROVISIONS

Project No.: 17-038 (HU1502)

Project Name: Union Avenue Bridge Resurfacing - Overlay

2.00 – GENERAL INSTRUCTIONS / SUBMITTAL PACKET

All specifications included in the Special Provisions shall have precedence over and will govern in the event of a conflict with other sections contained in this document.

Contract Documents for this project (including plans and specifications) can be obtained on the City website at www.pueblo.us/purchasing or via the Rocky Mountain E-Purchasing System (RMEPS) website at www.BidNetDirect.com/colorado. Please be advised that electronic bid submissions (i.e. emails, fax, etc.) will not be accepted. Addenda will be posted only on the City Purchasing Department and RMEPS websites. **It is the bidder's responsibility to verify whether any addenda were issued via one of these sites.**

Proposers must follow the submittal procedures outlined in the Contract Documents. Only bids that are made out upon the City-prepared forms will be considered. The bid form must not be separated from the required proposal submittal packet as defined in the Mandatory Submittals checklist. **In addition to those items listed on the "MANDATORY SUBMITTALS" sheet, Bidders must turn in all of Article 1 (A, B, C, D, E, F, G, & H), all of Article 2 – SPECIAL PROVISIONS, all of Article 2A-1 (Labor Provisions) and all of Article 3 – GENERAL PROVISIONS. Failure to do so may result in rejection of the submittal.**

Proposers shall inform themselves of the conditions of the project site and the requirements of the project's scope of work before submitting their proposal. No allowances shall be made due to any matter or thing concerning which they might not have been fully informed prior to the bidding. No Proposer will be heard after the opening of proposals to assert that there was any misunderstanding as to the nature of the operation expected in this solicitation. If a pre-bid meeting is held, Proposers should make every effort to attend. If the pre-bid meeting is **mandatory** and the Proposers cannot attend, it is imperative that someone else attend as a representative of the company, otherwise, their bid will not be accepted at the time of bid opening.

2.01 - STANDARD CONSTRUCTION SPECIFICATIONS AND STANDARD DETAILS

The ***Standard Construction Specifications and Standard Details for Pueblo, Colorado***, adopted March 28, 2005, shall control the construction and quality of materials for this project except where specifically modified by these Special Provisions. The ***Standard Construction Specifications and Standard Details*** are not included in this bid package but are available for purchase at the Public Works Office, 211 East "D" St or viewing on the Public Works Department website.

2.02 - INCONSISTENCIES

Any seeming inconsistencies between the Plans and Specifications or provisions of the Contract Documents, or any matter requiring explanation must be inquired into by bidders at least 72 hours (excluding Sundays and Holidays) prior to the time set for opening of bids.

Decisions of major importance will be issued in the form of an addendum by the Engineer.

Addenda will NOT be sent directly to Contract Document holders – but will be posted on the City’s website and the RMEPS website. It is the bidder’s responsibility to verify whether any addenda were issued and posted. Bidders must follow the bid submittal procedures outlined in the contract document. These addenda shall become part of the Contract Documents.

It is the bidder’s responsibility to verify whether any addenda were issued and to notify the Department of Public Works of successful receipt of any addenda. Bidders must follow the bid submittal procedures outlined in the contract document. These addenda shall become part of the Contract Documents.

2.03 - SITE INVESTIGATION

By submitting his bid, the Contractor acknowledges that he has satisfied himself as to the nature and location of the work, the general and local conditions, particularly those bearing upon transportation, disposal, handling and storage of materials, availability of labor, water, electric power, uncertainties of weather, physical conditions at the site, the character, quality of surface and subsurface materials to be encountered, the character of equipment and facilities needed prior to and during the prosecution of the work and all other matters which can in any way affect the work or the cost thereof under this contract. Failure by the Contractor to acquaint himself with all the available information concerning these conditions will not relieve him from responsibility for estimating properly the difficulty of cost of successfully performing the work.

2.04 – PRE-CONSTRUCTION CONFERENCE

The Contractor shall attend a pre-construction conference with the Director of Public Works, Streets Department Superintendent, Engineer, representatives of the utility companies and other interested parties prior to any construction.

2.05 – EMERGENCY REPAIR OR PROTECTIVE WORK BY THE CITY OF PUEBLO

As indicated more specifically in Sections 3.64 and 3.65 of the General Provisions, it is the Contractor’s responsibility to provide adequate barricades, protective devices and safety measures, and to employ other precautionary means, for the adequate protection of the public, the work, and public and private property, from injury or loss. Notwithstanding this duty, should the City become aware of any condition or circumstance arising from the work or with respect to any excavation or area disturbed by the Contractor which, in the opinion of the Director of Public Works, creates or results in any imminent or unreasonable risk to the health or safety of the public or to private or public property, the City may undertake emergency work or repairs. Such work may include, by way of illustration, provision of barricades, traffic control devices or flagmen, deployment or warning signs, repair of lines under construction, repair of collapsed excavations or sinkholes, placement of sandbags or dams, and other emergency efforts. The determination of the necessity during the construction and warranty periods for the City to do any such emergency work or repairs shall rest entirely with the Director of Public Works. The cost of emergency work done by the City, including the actual cost of labor, equipment, and materials, plus 100 percent, shall be deducted from any amounts otherwise owed to Contractor, or may be invoiced to the Contractor, or the same amount shall be recovered from the Contractor’s performance bond.

2.06 - REPRESENTATIVE AVAILABLE FOR EMERGENCY CALLS

The Contractor shall provide the name, address and phone number of his representative who may be reached at any time during the life of the contract regarding repairs, detours, barricading, etc. This information shall be furnished in writing to the Department of Public Works, Streets Department, Department of Transportation, and the Engineer.

2.07 - SAFETY REGULATIONS

The Contractor shall be aware of and shall comply with all State and Federal Safety regulations, which are applicable to the work included under this contract. Enforcement will be by the proper State and Federal regulatory agencies.

If any construction activity is deemed to be unsafe to inspect, the Contractor shall be notified that the work shall be discontinued until the deficiencies are corrected so the job can be properly inspected.

2.08 - DUST PREVENTION

During construction and until final acceptance by the Engineer, the Contractor shall be responsible for controlling dust emissions in the construction area. No earthwork activities shall be performed when the wind speed exceeds thirty (30) miles per hour. All fill areas shall be compacted on a daily basis to 95% minimum compaction. Any mud or dirt carry out onto paved surfaces shall be cleaned up on a daily basis. The Contractor shall promptly comply with all directives from the Engineer relating to dust control. If the Contractor fails to comply or provide adequate means to control dust, a stop-work order will be issued until the problems are corrected.

2.09 - SITE RESTORATION AND CLEANUP

Contractor shall maintain and/or repair any damage done to all existing properties, public or private, adjacent to site improvements, including but not limited to, asphalt, base course, utilities, sod, irrigation systems and landscaped areas. In general disturbed areas shall be replaced to the lines, grades and thickness and like materials of the existing conditions unless otherwise stated on the plans. Restoration shall be consistent with that of areas adjacent to the limits of construction. Grass and other plant areas shall be restored, maintained, and irrigated until the project is accepted by the Engineer. Fabric shall be installed under all rock landscape areas. Any landscape material salvaged by the Contractor for reuse will not be acceptable if contaminated by dirt or different landscape material. Slopes to match from the new improvements to existing improvements shall not exceed a 4:1 slope.

Site restoration and cleanup will not be measured or paid separately but shall be included in the unit prices bid for each bid item. Partial payments will not be made on any unit price item until the restoration and cleanup associated with that item is satisfactorily complete and acceptable to the property owner.

2.10 - UTILITY LOCATIONS

The accuracy of information furnished in regard to underground utilities is not guaranteed. The utility locations are approximate and may not include all utilities. The Contractor shall determine the exact location of all utilities before commencing work. He shall be fully responsible for any damage, which might occur, due to his failure to locate and protect all utilities. He shall repair or have repaired, at no cost to the City, any damage to utilities.

Existing utilities include gas mains, water mains, service lines, meters, meter cans, buried telephone cables, buried power lines, pedestals, utility poles, sanitary sewer mains, manholes and services, and any other existing utility.

2.11 – ABANDONED UTILITIES

If during construction operations, an abandoned utility is encountered, the Contractor shall contact and coordinate with the Engineer to arrange for the removal of the utility. If the Contractor elects to remove the utility without contacting the engineer, he shall do so at no cost to the City.

2.12 – OVERHEAD AND/OR UNDERGROUND HIGH VOLTAGE POWER LINES

Unless danger against contact with high voltage overhead and/or underground lines has been effectively guarded against, the Contractor shall not perform any function or activity upon any land, building, highway or other premises if at any time during the performance of any function or activity it could move or be placed within ten (10) feet of any high voltage overhead and/or underground line. If work is to be performed within ten (10) feet of high voltage overhead and/or underground lines, the public utility must first be notified to arrange for safety provisions. The Contractor may perform the work only after arrangements, including coordination and payment of fees (if applicable); have been made with the utility company.

2.13 - COORDINATION OF CONSTRUCTION ACTIVITIES

The Contractor and subcontractors shall coordinate their work with the work of all other construction activities and contractors and cooperate with them so as to facilitate general progress of the work. Each trade shall afford other trades every reasonable opportunity for installation of their work and for storage of their materials.

2.14 – CONTRACTOR EVALUATION

Pursuant to Ordinance No. 6510, dated February 14, 2000, the Department of Public Works will be evaluating the performance of the Contractor using the form included at the end of this Article. The purpose of this is; to evaluate the performance of Contractors and Consultants who provide service to the City of Pueblo, increase communication and foster positive relationships. It will also establish written documentation of the Contractor's overall performance. Material failure to perform in accordance with the terms of one or more contracts or materially unsatisfactory performance of one or more contracts may be justification for disqualifying future bids by the Contractor.

2.15 - SPECIFICATION LANGUAGE

Part of the Specifications are written in abbreviated style with incomplete sentences. Omission of words as "The General Contractor shall", "Conforming to", "shall be", etc., are intentional. Omitted words shall be supplied by inference. Where words "approved", "satisfactory", "directed", "submitted", etc., are used, it shall be assumed that the word "Engineer" follows, such as "approved by the Engineer".

2.16 – STATE IMPOSED MANDATES PROHIBITING ILLEGAL ALIENS FROM PERFORMING WORK UNDER THIS CONTRACT (ARTICLE 3, SECTION 3.69)

Contractors shall familiarize themselves with the provisions of the recently revised Section 3.69 of Article 3 – GENERAL PROVISIONS and shall be aware of the consequences associated with violation of said section. Contractor shall after award but prior to the time for execution of contract documents, provide a written certification that they do not knowingly employ or contract with an illegal alien who will perform work under this contract and that they will participate in either the "E-Verify Program" or the "Department Program". Said certification shall be submitted to the Purchasing Agent.

2.17 – PERA LIABILITY

The Contractor shall reimburse the City for the full amount of any employer contribution required to be paid by the City of Pueblo to the Public Employees' Retirement Association ("PERA") for salary or other compensation paid to a PERA retiree performing contracted services for the City under this Agreement. The Contractor shall fill out the questionnaire attached in the Mandatory Submittals section, at the front of these contract documents and submit the completed form to City as part of the signed Agreement.

2.18 TRAFFIC CONTROL DEVICES - SIGNS

The Contractor shall be responsible for all permanent traffic control devices (signs) within the construction area. If permanent devices are in conflict with construction activities the Contractor shall be responsible for the placement of temporary traffic control devices, the removal of the permanent devices and the reinstallation of the permanent devices.

All work shall be in accordance with the Manual of Uniform Traffic Control Devices. All regulatory signs (Stop, Yield, One Way, Do Not Enter, etc.) shall be maintained in either a temporary or permanent manner. The temporary devices shall be in place prior to the removal of the permanent devices. Should there be any claims resulting from his negligence in failing to act or maintain any traffic control device, the Contractor shall be held fully responsible.

The Contractor shall be responsible for maintaining the condition of any sign that is removed temporarily. Should there be any damage to devices (sign(s), pole, base and hardware) the Contractor shall be financially responsible to the City of Pueblo for the replacement of said devices.

Contractor shall contact Traffic Maintenance at 553-2300 for approval of the specific location in which the devices are to be reinstalled. Contractor shall obtain underground utility locates prior to reinstalling devices.

The Traffic Engineer or designee will evaluate existing signage for replacement with new materials. If required, the City will provide all replacement materials to the Contractor prior to reinstallation. Where new devices are required per the construction drawings all signs, posts, bases and hardware will be supplied by the City. Contact the Traffic Engineer at 553-2722 to order signs, providing the City at least two weeks notification to provide the necessary material.

2.19 - CONSTRUCTION TRAFFIC CONTROL

The Contractor shall submit a traffic control plan prepared by a Certified Traffic Control Supervisor, at the preconstruction conference for approval by the Traffic Engineer.

All traffic control procedures, signing, lighting and barricades shall conform to the latest edition of the ***Manual on Uniform Traffic Control Devices***, and shall be set up and maintained by a Certified Traffic Control Supervisor.

Full closure of the Union Avenue bridge will be allowed for the resurfacing work.

Construction traffic control shall be paid as "Traffic Control." Periodic payments for this item shall be based upon the percentage of work completed compared to the original contract amount

2.20 - TRAFFIC CONTROL SUPERVISOR

The Traffic Control Supervisor shall be certified as a Worksite Traffic Supervisor by the American Traffic Safety Services Association (ATSSA) or Colorado Contractors Association (CCA). A copy of the Traffic Control Supervisor's Certification shall be provided to the Engineer at the project pre-construction conference.

2.21 - COMPLETE WORK ON TIME

Failure to complete the work by the allotted **Ten (10)** calendar days shall result in the assessing of liquidated damages according to ARTICLE 3 - GENERAL PROVISIONS. An additional **Five (5)** calendar days shall be allotted for the raising of manholes only.

2.22 - COLD MILL PLANING (ROTO MILLING)

Cold mill planing (roto milling) of the asphalt mat shall consist of removing asphalt from each lane as directed by the Engineer. Main Street & Union Avenue will be milled at an approximate depth of 2". Cold planing quantities are estimated and will be paid by actual field measurements.

All removed asphalt will become the property of the City, and shall be delivered to the "Monument Compound" site for stockpiling. The Monument Compound is located at S. Monument Avenue and Beech Street.

It is the responsibility of the Contractor to locate all manholes, valves, monument boxes, or other metallic features whether exposed or hidden from view. No claims for damage will be allowed for failure of the Contractor to locate objects. Traffic signal control loops require special attention. It is the Contractor's responsibility to coordinate the field locating of all traffic signal loops with the Traffic Division of the Transportation Department.

2.23 – ASPHALT MIX DESIGN

The Contractor shall furnish to the Engineer at the Pre-Construction meeting, a mix design formula from a certified AASHTO testing laboratory, for the hot mix bituminous pavement he proposes to use. The Grading SX mix designs shall conform to the applicable Colorado Department of Transportation (CDOT), Standard Specifications for Road and Bridge Construction, 2011 Edition, Section 702 and Section 703, unless otherwise noted in these Special Provisions. The City will allow up to a maximum of Thirty (30) percent of Reclaimed Asphalt Pavement (RAP) in the asphalt mix design. All aggregate (RAP & Virgin) shall conform to the gradation standards of CDOT's Standard Specifications for Road and Bridge Construction, 2011 Edition, Section 703.04, unless otherwise noted in these Special Provisions. (Note an approved quality control plan for RAP is required prior to mix design approval). Asphalt cement binder shall be PG 64 -22 or as determined by the JMF for optimum performance with RAP. The Contractor shall submit a Job Mix Formula (JMF) for all types of HMA asphalt to be used on this project. After the JMF has been established, all mixtures furnished for respective projects shall conform thereto within the range tolerances of **CDOT's Standard Specifications for Road and Bridge Construction, 2011 Edition, Section 401.**

2.24 – TESTING

The City will have an independent laboratory take random tests to verify that the asphalt conforms to the JMF as supplied by the Contractor. The random tests taken by the City will be paid at the City's expense. Split samples will be available to the Contractor for his own analysis at a laboratory of his choice at his expense. Asphalt that has been determined not to comply with the JMF shall be removed, disposed, and new asphalt laid at the total expense of the Contractor or paid as an asphalt price adjustment. This price adjustment shall be 75% of the unit bid price at the discretion of the City.

The Contractor shall at his own expense provide the City documents of all results of asphalt tests to be taken twice daily. All daily tests will be at the Contractors expense with no two tests to be performed within 500 tons of another required test unless retesting for a failed (out of spec) test. Core samples may be taken as directed by the Engineer for verification of aggregates, gradations, and oil content. Core samples taken and tested will be paid at the City's expense.

Any asphalt test that does not comply within the mix design (+/-) tolerances will require an immediate retest at the Contractors expense.

2.25 – BULK ASPHALT CEMENT PRICES ADJUSTMENT

Because of the short duration anticipated for this project, there will **NOT** be a price adjustment for asphalt cement used on this project.

2.26 – RAISING AND LOWERING OF MANHOLE LIDS AND RINGS

The Contractor may elect to temporarily remove manhole rings and lids prior to roto milling in order to accomplish his work, if temporarily removed they shall be covered with a steel plate to bridge opening and allow for traffic to drive on the patch where the manhole was located. The contractor shall patch with asphalt the area where the manhole was lowered and shall be responsible for location and referencing of each manhole.

Raising of manholes rings and covers shall be done to conform to the Standard Details and all applicable provisions of Article 11 shall be followed. The asphalt patch shall be constructed with two (2) four-inch (4") lifts. Patching around manholes shall be HMA Grading SX per Section 2.26 - Asphalt Mix Design as submitted in the JMF. Proper compaction equipment (i.e. pneumatic tamper) shall be used so that uniform compaction is obtained throughout the patched area. **Manhole ring adjustment procedures are detailed in "Adjustment Details" Sheet – SD12 of the Standard Construction Specifications and Standard Details for the City of Pueblo, Colorado adopted March 28, 2005.**

The Contractor shall be responsible for locating and referencing all manholes throughout the project. No locations shall be marked on the curbs with paint. The use of rubber I.D. locators or equivalent shall be included under bid item "Adjust Manholes to Grade".

After the asphalt resurfacing has been applied, all manhole rings and covers for sewer and access vaults **shall be raised to be flush** with the surrounding pavement as detailed on standard details sheet SD-12. All manholes having rings and covers less than or equal to one quarter inch (1/4") below the surrounding pavement need not be raised, but shall be cleaned of any residual asphalt.

Medium and light duty manhole lids and rings shall be replaced with heavy weight lids and rings supplied by the City. Sanitary Sewer and Storm Sewer Lids and rings will be available at the City Streets Division Compound, 310 E. "D" St., Pueblo, Colorado.

2.27 – RAISING OF WATER VALVES

Coordination for breaking loose the water valve slip boxes by the Board of Water Works personnel is the responsibility of the Contractor. Valve boxes shall be raised flush immediately behind the paving machine. **Due to the potential liability of not having access to the water valves to isolate a water main break a monetary penalty of Fifty Dollars (\$50) per valve box will be assessed for each valve box not raised before breakdown rolling.** All water valves shall be level with the surrounding pavement when the roller passes over the box, break down rolling and final responsibility of the contractor as specified in Article 11.3.19 of the Standard Construction Specifications and Standard Details for the City of Pueblo, Colorado. If asphalt cut back is needed for the adjustment, the Water Valve shall be cut and patched as shown in the standard detail **"Adjustment Details" Sheet – SD12 of the Standard Specifications and Standard Details for the City of Pueblo, Colorado adopted March 28, 2005.** Water valves may be located within the area to be roto milled or Full Depth Reclamation.

2.28 – TEMPORARY PAVEMENT MARKING

It shall be the responsibility of the Contractor to replace all lane markings if removed/covered during construction. Any lane markings removed/covered shall be replaced with temporary pavement markings, until the permanent markings can be replaced, prior to opening any street to

traffic. Temporary striping shall be at the Contractors expense.

2.29 – TACK COAT

After sweeping, the pavement surface will be inspected by the Engineer. If satisfactory, the existing pavement shall receive a tack coat of emulsified asphalt. The material shall be uniformly applied with a pressure distributor. The rate of application shall be 0.1 gallon per square yard (minimum) and the maximum so as not to cause bleeding or slippage.

The tack coat shall be applied in such a manner as to offer the least inconvenience to traffic and to permit one-way traffic without pick-up or tracking of the bituminous material. Tack coat shall not be applied after sunset, in cold weather below 60 degrees Fahrenheit, or on a wet pavement. The surface shall be allowed to cure to permit drying and setting of the tack coat prior to the paving operation. When traffic is maintained, not more than ½ of the width of the section shall be treated in one application. Sufficient width shall be left to adequately handle traffic. Bituminous material shall not be placed on any surface where traffic will travel on the freshly applied material. Spills and runs of tack oil must be kept to a minimum. If spills do occur, the Contractor is responsible for cleanup, returning the affected area to acceptable condition as determined by the Engineer. Care should be taken not to get tack coat on curb and gutter, sidewalks, mailboxes, or driveways.

Tack Coat shall be applied as per Standard Construction Specifications and Details for City of Pueblo, Colorado Article 11 Section 11.3.09 and will not be measured and paid for separately but shall be included in the construct overlay bid item. No overlay material shall be placed without the surface first having been tacked 100%.

Removing weeds from cracks and sweeping any debris created by their removal shall be the responsibility of the Contractor prior to applying the tack oil for overlay.

2.30 – SPREADING, FINISHING, AND COMPACTION

Shall be as specified in Section 11.3.10 of the Standard Construction Specifications and Standard Details for City of Pueblo, Colorado, adopted March 28, 2005.

2.31 – LEVELING COURSE BY MACHINE

Leveling course by machine shall be placed as approved by the Engineer in the field.

2.32 – RAKING AT JOINTS

Raking at the joints must be kept to a minimum. Minimum raking shall be performed so that no distortion or dissimilar surface texture shall be evident at the joint between passes by the paving machine. Transverse joints shall be constructed as specified in Article 11.3.13 of the Standard Construction Specifications and Standard Details for the City of Pueblo, Colorado, Adopted March 28, 2005.

2.33 – PAVING MACHINES

Shall be as specified in Section 11.3.05 of the Standard Construction Specifications and Standard Details for City of Pueblo, Colorado, adopted March 28, 2005.

2.34 – ROLLERS

Shall be as specified in Section 11.3.06 of the Standard Construction Specifications and Standard Details for City of Pueblo, Colorado, adopted March 28, 2005.

2.35– WEATHER LIMITATIONS

Shall be as specified in Section 11.3.08 of the Standard Construction Specifications and Standard Details for City of Pueblo, Colorado, adopted March 28, 2005

2.36 – CONSTRUCTION SCHEDULE AND COORDINATION OF CONSTRUCTION ACTIVITIES

The Contractor shall submit a detailed and complete schedule at the pre-construction conference showing the route and order of asphalt removal, asphalt patching, overlay and raising of manholes.

The Contractor and subcontractors shall coordinate their work with the work of all other construction activities and contractors, and cooperate with them so as to facilitate general progress of the work. Each trade shall afford other trades every reasonable opportunity for installation of their work and for storage of their materials.

2.37 – LAYING OUT WORK

The Contractor shall locate all general reference points and take such action as necessary to prevent their destruction. The Contractor shall lay out his own work and be responsible for all lines, elevations and measurements of the overlay, and other work executed by him under this contract. The Contractor shall exercise proper precaution to verify figures shown on the drawing before laying out work and will be responsible for any error resulting from his failure to exercise such precautions.

2.38 – DAILY REPORTS

The Contractor shall provide a computer generated daily report to the City representative monitoring/inspecting the project. The report shall document the weight ticket control number, the date, customer number, job number, the description of material hauled, and the net weight of load in tons. **The daily report is due by noon following previous day's work.** A copy of each daily report shall be attached to each request for payment for that payment period. All payment requests shall be submitted using the Partial Payment format supplied by the City. Daily reports must differentiate between asphalt used for different types of work. Example, asphalt for overlay, asphalt for leveling, cross-pans must be documented as asphalt for cross-pans, etc. Each special use must be separated and not intermingled on the daily report.

2.39 – WEIGHT TICKETS

Weight tickets for each load shall be computer generated that document the control number for the ticket, customer number, truck number, job number, description of material hauled, net tare weight of the load, and destination of the load with a running total for each ticket. The ticket shall clearly document the purpose of the load, example, overlay or patching. The City representative will collect weight tickets on site as the loads arrive.

2.40 – PORTABLE RESTROOM

The Contractor shall have on site a portable restroom for the use of employees and inspectors during all phases of construction.

2.41 - HOURS OF WORK

The workweek of the Engineering and Inspection Division is 7:00 a.m. to 12:00 noon, and 1:00 p.m. to 4:00 p.m. daily, Monday through Friday, holidays excepted. Any work done outside of normal work hours must be approved by the Engineer.

2.42 – MOBILIZATION

This item shall consist of mobilization of personnel, equipment and supplies at the project site in preparation for work on the project. The item shall include all costs incurred or labor and operations, which must be performed prior to beginning the other items under Contract.

Partial payments for mobilization made will be made each month as the work progresses. These payments will be made as follows:

- (1) When 10 percent of the original contract amount is earned, 50 percent of the amount bid for mobilization will be paid.
- (2) When 50 percent of the original contract amount is earned, 100 percent of the amount bid for mobilization will be paid.
- (3) The total sum of all payments shall not exceed the original contract amount bid for the item, regardless of the fact the Contractor may have, for any reason, shut down the work on the project or moved equipment away from the project and then back again.

For the purpose of this section, the term “original contract amount” as used above shall mean the amount bid for the construction items in the Contract not including the amount bid for mobilization. Payments for materials on hand will be included as a percent of original contract amount earned until said materials on hand have been incorporated into the work and accepted and paid for as contract items.

2.43 – REMOVE AND REPLACE ASPHALTIC PLUG BRIDGE JOINT SYSTEM

This bid item is for the removal and replacement of existing asphaltic plug bridge joints. This work shall consist of, but not limited to; the cleaning and preparing the surfaces of the joint, repairing spalls in the concrete deck, installing backer rod/cover plates and placement of the asphaltic plugs. Asphaltic plug bridge joints shall be “Matrix 501 Asphaltic Plug Bridge Joint System” as manufactured by CrafcocTM, Inc. an Ergon Company or approved equal. See specifications at the end of Article 2.

2.44 – APPROVED EQUAL

An approved equal, where noted, may be considered by the City. In order for a product or material to be given consideration as an “approved equal”, a complete manufacturer’s submittal must be presented to the Engineer at or before the pre-bid meeting. An addendum will be issued following the pre-bid meeting that will list all “approved equal” products or materials. No other products or materials will be considered after the addendum is issued.

2.45 – CLEAN EXISTING BRIDGE EXPANSION DEVICE

The existing bridge expansion devices, shown on sheet 1, that will not be removed shall be thoroughly cleaned and protected during construction. All construction debris shall be removed from the existing bridge expansion devices and thoroughly cleaned following the completion of project. All cleaning is considered incidental to the project and will not be paid for separately.

2.46 - SPECIFICATION LANGUAGE

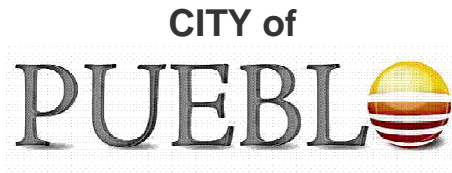
Parts of the Specifications are written in abbreviated style with incomplete sentences. Omissions of words as “The General Contractor shall”, “Conforming to”, “shall be”, etc., are intentional. Omitted words shall be supplied by inference. Where words "approved", "satisfactory", "directed", "submitted", etc., are used, it shall be assumed that the word "Engineer", “Consulting Engineer” or “Architect” follows, such as "approved by the Engineer".

2.47 – EPOXY PAVEMENT MARKING

This bid item consists of furnishing and applying epoxy pavement marking, and furnishing, installing, and removing temporary pavement marking (if any) in accordance with Section 627 Pavement Marking, specifically Section 627.05 Epoxy Pavement Marking within the Colorado Department of Transportation, Standard Specifications for Road and Bridge Construction.

2.48 – PREFORMED THERMOPLASTIC PAVEMENT MARKING

This bid item consists of furnishing and applying Preformed Thermoplastic Pavement Marking in accordance with Section 627 Pavement Marking, specifically Section 627.09 Preformed Thermoplastic Pavement Marking within the Colorado Department of Transportation, Standard Specifications for Road and Bridge Construction.



CONTRACTOR/CONSULTANT SATISFACTION PROGRAM

PURPOSE:

To evaluate the performance of contractors and consultants who provide service to the City of Pueblo and increase communication and foster positive relationships. The instrument utilized in this program will also provide an avenue to communicate our expectations as it relates to providing timely, cost-effective, and quality service to the citizens of the City of Pueblo.

PROGRAM:

This program and evaluation instrument will be included in the bid packet or request for proposal on all bids. The program will also be discussed at each pre-bid meeting and pre-construction meeting. Within 30 days after completion of the project/program, the employee who was directly responsible for overseeing the contract will complete the evaluation form; then set up a post-contract meeting with the consultant or contractor to review the evaluation with them. Files on every contractor/consultant will be maintained by each Division as well as being placed on a database in the public files server on the City network for use by all Divisions. The information will also be utilized as part of the review process for awarding future bids by the City Pueblo.

Effective Date: 10/09/2012

CITY OF PUEBLO

CONTRACTOR/CONSULTANT SATISFACTION FORM

Contractor/Consultant: _____

Project Name: _____

Time Period of Contract: _____

Post Contract Meeting Date with Contractor/Consultant: _____

Type of Contract: _____ Project No. _____
(Construction or Consulting)

Amount of Contract: _____

Instructions: Please rate all areas applicable to the contract just completed. For areas rated less than 10, please attach back-up documentation (i.e., inspector reports, etc.) to support the rating or provide information in comment section, as necessary. Be sure to adjust the final score based on the number of criteria being rated.

A. ORGANIZATION AND MANAGEMENT

1. To what degree are management personnel available with full authority to execute the directions of the engineer?

- _____ 9-10 Excellent
- _____ 7-8 Very Good
- _____ 5-6 Average
- _____ 3-4 Fair
- _____ 1-2 Poor

Comments:

2. To what degree are management personnel competent and effective in scheduling the work and organizing construction operations, including being punctual in starting and completing the work on the project and meeting critical intermediate phases in accordance with the approved progress schedule?

- _____ 9-10 Excellent
- _____ 7-8 Very Good
- _____ 5-6 Average
- _____ 3-4 Fair
- _____ 1-2 Poor

Comments:

3. To what degree did management personnel have the knowledge necessary regarding specifications, plans and special provisions?

- _____ 9-10 Excellent
- _____ 7-8 Very Good
- _____ 5-6 Average
- _____ 3-4 Fair
- _____ 1-2 Poor

Comments:

4. How adequately was the project staffed with competent workers and were they monitored?

- _____ 9-10 Excellent
- _____ 7-8 Very Good
- _____ 5-6 Average
- _____ 3-4 Fair
- _____ 1-2 Poor

Comments:

5. To what degree did the contractor/consultant furnish the required documentation and reports in a timely manner (i.e., certification of materials, delivery tickets, progress schedule, shop drawings, material sampling, potential claims, etc.)?

- _____ 9-10 Excellent
- _____ 7-8 Very Good
- _____ 5-6 Average
- _____ 3-4 Fair
- _____ 1-2 Poor

Comments:

6. Did the contractor/consultant inform project personnel in advance of scheduled day-to-day items of work?

- _____ 9-10 Excellent
- _____ 7-8 Very Good
- _____ 5-6 Average
- _____ 3-4 Fair
- _____ 1-2 Poor

Comments:

7. To what degree was the chain of authority in the City of Pueblo respected by the contractor/consultant?

- _____ 9-10 Excellent
- _____ 7-8 Very Good
- _____ 5-6 Average
- _____ 3-4 Fair
- _____ 1-2 Poor

Comments:

8. To what degree did the contractor/consultant treat the Project Personnel with respect and maintain a positive attitude with them.

- _____ 9-10 Excellent
- _____ 7-8 Very Good
- _____ 5-6 Average
- _____ 3-4 Fair
- _____ 1-2 Poor

Comments:

9. Did the contractor/consultant comply with the direction of project personnel without delay?

- _____ 9-10 Excellent
- _____ 7-8 Very Good
- _____ 5-6 Average
- _____ 3-4 Fair
- _____ 1-2 Poor

Comments:

10. To what degree did the contractor/consultant cooperate with other contractors/consultants/agencies performing work on adjacent or related projects?

- _____ 9-10 Excellent
- _____ 7-8 Very Good
- _____ 5-6 Average
- _____ 3-4 Fair
- _____ 1-2 Poor

Comments:

11. Did the contractor/consultant comply with all wage rates and labor regulations/provisions and submit accurate payrolls?

- _____ 9-10 Excellent
- _____ 7-8 Very Good
- _____ 5-6 Average
- _____ 3-4 Fair
- _____ 1-2 Poor

Comments:

12. To what degree did the contractor inform the adjacent residents/business owners of the different phases of construction?

- _____ 9-10 Excellent
- _____ 7-8 Very Good
- _____ 5-6 Average
- _____ 3-4 Fair
- _____ 1-2 Poor

Comments:

13. Did the contractor/consultant effectively handle situations involving problem employees that were brought to their attention by the City of Pueblo?

- _____ 9-10 Excellent
- _____ 7-8 Very Good
- _____ 5-6 Average
- _____ 3-4 Fair
- _____ 1-2 Poor

Comments:

B. EQUIPMENT

1. Did the contractor provide the appropriate number and type of equipment necessary for performance for the work?

- _____ 9-10 Excellent
- _____ 7-8 Very Good
- _____ 5-6 Average
- _____ 3-4 Fair
- _____ 1-2 Poor

Comments:

2. Did the contractor provide reliable equipment so as not to impede the progress of the project?

- _____ 9-10 Excellent
- _____ 7-8 Very Good
- _____ 5-6 Average
- _____ 3-4 Fair
- _____ 1-2 Poor

Comments:

C. WORK PERFORMANCE

1. To what degree was the work site maintained in a safe, clean and orderly condition?

- _____ 9-10 Excellent
- _____ 7-8 Very Good
- _____ 5-6 Average
- _____ 3-4 Fair
- _____ 1-2 Poor

Comments:

2. To what degree did the contractor maintain adequate signs, lights, barricades and properly trained flag persons in accordance with the latest edition of the Manual on Uniform Traffic Control Devices, traffic control plan and approved revisions?

- _____ 9-10 Excellent
- _____ 7-8 Very Good
- _____ 5-6 Average
- _____ 3-4 Fair
- _____ 1-2 Poor

Comments:

3. To what degree did the contractor/consultant meet contract requirements including standard specifications, technical specifications, general provisions, special provisions, plans and supplementary documents with minimal instruction from the City of Pueblo?

- _____ 9-10 Excellent
- _____ 7-8 Very Good
- _____ 5-6 Average
- _____ 3-4 Fair
- _____ 1-2 Poor

Comments:

4. To what degree was the overall quality of work performed by the contractor/consultant?

- _____ 9-10 Excellent
- _____ 7-8 Very Good
- _____ 5-6 Average
- _____ 3-4 Fair
- _____ 1-2 Poor

Comments:

5. To what degree did the contractor/consultant properly notify and coordinate work with other agencies/utility companies in protection of existing facilities?

- _____ 9-10 Excellent
- _____ 7-8 Very Good
- _____ 5-6 Average
- _____ 3-4 Fair
- _____ 1-2 Poor

Comments:

6. To what degree did the contractor/consultant minimize urgencies of construction or consultations that required the City of Pueblo to compromise the quality of work or abandon good construction/engineering practices in order to complete the project?

- _____ 9-10 Excellent
- _____ 7-8 Very Good
- _____ 5-6 Average
- _____ 3-4 Fair
- _____ 1-2 Poor

Comments:

7. Did the contractor/consultant finish the work by the contract end date? (The contractor/consultant should not be penalized for delays caused by the City.)

- _____ 9-10 Excellent
- _____ 7-8 Very Good
- _____ 5-6 Average
- _____ 3-4 Fair
- _____ 1-2 Poor.

Comments:

8. Did the contractor/consultant finish the work on budget? (the contractor/consultant should not be penalized for cost overruns as a result of a change in project scope requested by the City.)

- _____ 9-10 Excellent
- _____ 7-8 Very Good
- _____ 5-6 Average
- _____ 3-4 Fair
- _____ 1-2 Poor

Comments:

9. To what degree was final clean up and punch list items complete?

- _____ 9-10 Excellent
- _____ 7-8 Very Good
- _____ 5-6 Average
- _____ 3-4 Fair
- _____ 1-2 Poor

Comments:

D. SUBCONTRACTOR MANAGEMENT

1. To what degree did the contractor/consultant coordinate work with subcontractors' work?

- _____ 9-10 Excellent
- _____ 7-8 Very Good
- _____ 5-6 Average
- _____ 3-4 Fair
- _____ 1-2 Poor

Comments:

2. To what degree did the contractor/consultant exercise authority over subcontractors and provide notice of subcontractor work schedule?

- _____ 9-10 Excellent
- _____ 7-8 Very Good
- _____ 5-6 Average
- _____ 3-4 Fair
- _____ 1-2 Poor

Comments:

3. To what degree did the contractor monitor subcontractor activities to ensure approved materials were supplied and incorporated into the project?

- _____ 9-10 Excellent
- _____ 7-8 Very Good
- _____ 5-6 Average
- _____ 3-4 Fair
- _____ 1-2 Poor

Comments:

4. To what degree did the contractor/consultant ensure that subcontractors submitted all paperwork required for approvals, materials and payrolls?

- _____ 9-10 Excellent
- _____ 7-8 Very Good
- _____ 5-6 Average
- _____ 3-4 Fair
- _____ 1-2 Poor

Comments:

5. To what degree did the contractor/consultant meet the level of Disadvantaged Business Enterprise utilization which they indicated they would use at the time of contract award?

- _____ 9-10 Excellent
- _____ 7-8 Very Good
- _____ 5-6 Average
- _____ 3-4 Fair
- _____ 1-2 Poor

Comments:

CONTRACTOR/CONSULTANT SATISFACTION PROGRAM

SCORESHEET

A. Organization and Management

Question Number	Issue	Score (10 max. ea.)	Weighting Factor	Total Score
1	Are management personnel available		1	
2	Are management personnel organized		1	
3	Are management personnel knowledgeable		1	
4	Was project adequately staffed		1	
5	Documents furnished timely		1	
6	Was schedule known in advance		2	
7	Did the contractor/consultant respect the City's chain of authority		1	
8	Did the contractor/consultant comply with City direction		2	
9	Cooperation with other project contractors/consultants		1	
10	Comply with wage rates, labor regulations, accurate payrolls		1	
11	Communication with residents/businesses		1	
12	Ability to handle problem employees		1	
	TOTAL (140 max)			

B. Equipment

1	Appropriate number and type of equipment used		1	
2	Was equipment reliable		1	
	TOTAL (20 max)			

CONTRACTOR/CONSULTANT SATISFACTION PROGRAM
SCORESHEET

C. Work Performance

Question Number	Issue	Score (10 max. ea.)	Weighting Factor	Total Score
1	Work site maintained		1	
2	Maintained traffic control		1	
3	Meet contract requirements		1	
4	Quality of work		2	
5	Coordinate work with other utilities		1	
6	Was the quality of work compromised		2	
7	Complete by contract end date		3	
8	Complete on budget		3	
9	Clean-up and punch list items		2	
	TOTAL (160 max)			

D. Subcontractor Management

Question Number	Issue	Score (10 max. ea.)	Weighting Factor	Total Score
1	Coordination with subcontractors		1	
2	Exercise authority and provide schedules		2	
3	Subcontractor materials oversight		1	
4	All paperwork properly submitted by contractor		1	
5	DBE utilization		1	
	TOTAL (50 max)			

TOTAL POINTS (ALL SECTIONS) _____

POSSIBLE POINTS _____

PERCENTAGE OF POSSIBLE _____



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PRODUCT DATA SHEET

**MATRIX 501 ASPHALTIC PLUG
 BRIDGE JOINT SYSTEM**

FEBRUARY 2014

READ BEFORE USING THIS PRODUCT

GENERAL The Crafco Matrix 501 Asphaltic Plug Bridge Joint System is a pre-measured, pre-packaged hot-applied bridge expansion joint system primarily composed of uniquely formulated polymer modified asphalt binder combined in one box with the exact ratio of select aggregate. The Crafco Matrix 501 Joint eliminates field measuring; proportioning and mixing required with traditional plug joint systems and provides a watertight, smooth riding joint that can accommodate up to ±1 inch (25 mm) of annual joint movement at the time of installation. The factory blended material is heated and installed in blockouts that are from 2 to 8 inches (5 to 20 cm) deep and 20 to 24 inches (51 to 61 cm) wide in either asphalt concrete or portland cement concrete bridge deck surfaces. Simply apply and level the material and then allow to cool. No compaction is required. The Crafco Matrix 501 Joint can be used for expansion, fixed end, and pressure relief joints, in both new construction or rehabilitation projects. The Crafco Matrix 501 Joint can be installed on skews up to 45 degrees and can be used for joint gaps up to 6 inches (15 cm). Crafco Matrix 501 joints are low cost, quick, and easy to install and maintain compared to anchored joint systems and standard field blended plug joints. The Crafco Matrix 501 Joint meets the requirements of ASTM D6297, Standard Specification for Asphaltic Plug Joints for Bridges; detailed Installation Instructions for Matrix 501 available at www.crafco.com.

COMPONENTS The Matrix 501 Asphaltic Plug Bridge Joint System is composed of Matrix 501 Mastic, Matrix 501 Adhesive, D Surface Dressing aggregate, backer rod, bridging plates and locating pins. Details and specifications for these components follow.

MATRIX 501 MASTIC, Part No. 33345

Matrix 501 Mastic is a single component blend of a specially formulated polymer modified asphalt binder and aggregate. The mastic is designed to be workable at application temperatures and resistant to segregation and binder flow on bridge surfaces that are sloped, crowned or super elevated. Matrix 501 Mastic requires no compaction and will form a bonded, flexible, extensible, compressible and traffic resistant joint system. The polymer modified asphalt binder in Matrix 501 Mastic meets the requirements of Table 1 ASTM D6297 as follows:

<u>Test</u>	<u>ASTM D6297 Limits</u>
Softening Point (ASTM D36)	83°C (182 F) min
Tensile Adhesion (ASTM D5329)	700% min
Ductility, 77°F (25°C) (ASTM D113)	400 mm min
Cone Penetration, 77°F (25°C) (ASTM D5329)	75 unit max
Low Temperature Cone Penetration, 0°F (-18°C) 200g, 60s (ASTM D6297, sec 9.1).	10 unit min
Flow 140°F (60°C), 5 hr. (ASTM D5329)	3.0 mm max
Resilience, 77°F (25°C) (ASTM D5329)	40 – 70%
Asphalt Compatibility (ASTM D5329)	Pass
Recommended Installation Temperature	380°F (193°C)
Maximum Heating Temperature	400°F (204°C)
Bond, 100% extension, 12.5 mm, 3 cycles (ASTM D 5329)	-7°C (20 F)
Flexibility (ASTM D5329)	-28°C (-18 F)

Additional properties of the polymer modified binder are as follows.

<u>Test</u>	<u>Requirements</u>
Brookfield Viscosity, 400°F (204°C) (ASTM D4402)	4000 cp max.
Unit Weight at 60°F (15°C)	9.3 lbs/gal (1.12 kg/l)

Aggregate in Matrix 501 Mastic is a specially selected hard, durable igneous rock that is screened to a specific gradation. Aggregate is double washed, dried, and bagged, and then combined with binder in one container. Aggregate content of Matrix 501 Mastic is 73 +/- 5%. Gradation of the aggregate in Matrix 501 Mastic is as follows:

Screen Size	Percent Passing
1/2-Inch	100
3/8-Inch	80 – 100
No 10	0 – 15
No 16	0 – 3

Packaging consists of individual boxes of product which are palletized into shipping units. Boxes contain a non-adherent film which permits easy removal of the mastic. Each pallet contains 72 boxes which are stacked in six layers of 12 boxes per layer. The weight of product in each box is 40 ± 1 lbs (18 ± 0.5 kg). Product boxes are manufactured from double wall kraft board producing a minimum bursting test certification of 350 psi (241 N/cm²) and using water resistant adhesives. Boxes use tape closure and do not contain any staples.

Boxes are labeled with the product name, part number, lot number, specification conformance, application temperatures and safety instructions. Palletized units are protected from the weather using a three mil thick plastic bag, a weather and moisture resistant cap sheet and a minimum of two layers of six month u.v. protected stretch wrap. Pallets are labeled with the product part number, lot number and net weight.

MATRIX 501 ADHESIVE Part No. 33346

Matrix 501 Adhesive consists of the specially formulated polymer modified asphalt designed to coat the blockout area and provide adhesion. Matrix 501 Adhesive meets the properties of Table 1 in ASTM D 6297.

D SURFACE DRESSING AGGREGATE, Part No. 33030

Specially selected igneous aggregate that is screened to a specific gradation, double washed, dried and packaged in 50 lb (22.7 kg) bags. D Surface Dressing aggregate is a fine gradation used to surface the completed joint. Gradation requirements are as follows.

D AGGREGATE	
<u>Screen Size</u>	<u>% Passing</u>
3/16	100
No 6	90 – 100
No 8	25 – 40
No 10	0 – 10

BRIDGING PLATES

Steel Bridging Plates are used to span the expansion gap, to function as a bond breaker and to support traffic loads. Bridging plates for expansion gaps up to 3 inches (7.6 cm) wide are ¼ inch (6.4mm) thick, 8 inches (20 cm) wide and between 36 and 60 inches (0.9 to 1.5 m) long. For expansion gaps from 3 to 6 inches (7.6 to 15 cm) wide, plates that are 3/8 inch (10 mm) thick, 12 inches (30 cm) wide and between 36 and 60 inches (0.9 to 1.5m) long shall be used. Plates are to have 3/16 inch (4.8mm) diameter holes along the centerline spaced at 1 ft (30cm) intervals for placing locating pins to aid in centering the plate over the joint gap. Plates are cut during installation to required lengths to cover the entire length of the joint gap.

LOCATING PINS

16D galvanized common nails are placed through the holes in the bridging plates and down into the expansion gap opening to center the plate in the joint.

BACKER ROD, Part No. 34609

A closed cell heat resistant backer rod used to provide back up in the expansion gap. Backer rod is 2 inch (5cm) diameter, supplied in 6 ft (1.8m) lengths and meets requirements of ASTM D5249, “Standard Specification for Backer Material for Use with Cold and Hot Applied Joint Sealants in Portland Cement Concrete and Asphalt Joints, Type 1”. If required for narrow or wide expansion gaps, other diameters can be used.

TYPICAL INSTALLATION Figure 1 shows a typical installation of the Matrix 501 Asphaltic Plug Bridge Joint System. Locations for each of the components are shown.

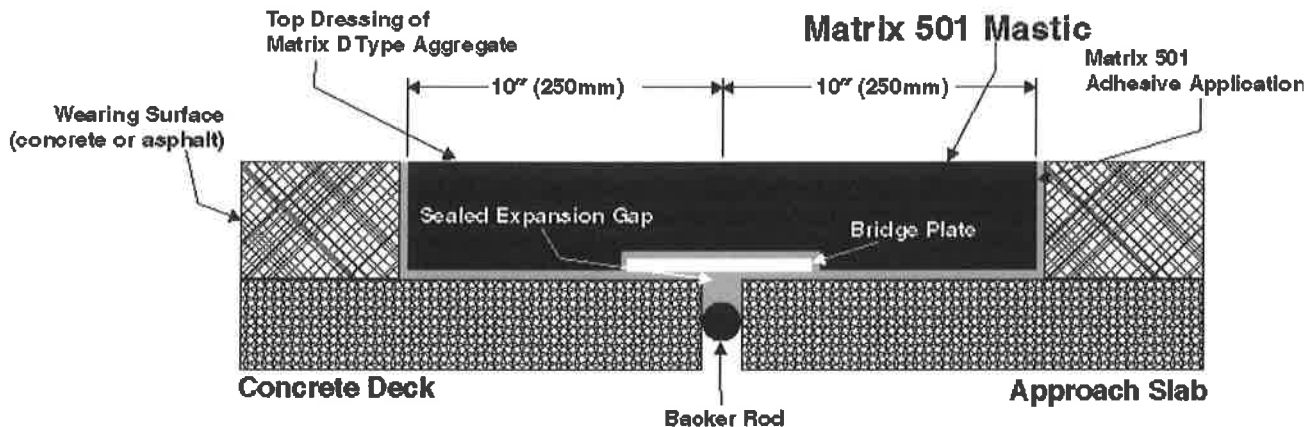


Figure 1. Typical Matrix 501 Asphaltic Plug Bridge Joint System Installation

For complete detailed installation procedures, refer to the “Installation Instructions for Matrix 501 Asphaltic Plug Bridge Joint System”.

WARRANTY CRAFCO, Inc. warrants that CRAFCO products meet applicable ASTM, AASHTO, Federal or State specifications at time of shipment. Techniques used for the preparation an installation are beyond our control as are the use and application of the products; therefore, Crafcoc shall not be responsible for improperly applied or misused products. Remedies against Crafcoc, Inc., as agreed to by Crafcoc, are limited to replacing nonconforming product or refund (full or partial) of purchase price from Crafcoc, Inc. All claims for breach of this warranty must be made within three (3) months of the date of use or twelve (12) months from the date of delivery by Crafcoc, Inc. whichever is earlier. There shall be no other warranties expressed or implied. **For optimum performance, follow Crafcoc recommendations for product installation.**



INSTALLATION INSTRUCTIONS

MATRIX 501 ASPHALTIC PLUG BRIDGE JOINT SYSTEM

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 www.crafco.com

FEBRUARY 2014

READ BEFORE USING THIS PRODUCT

INTRODUCTION These installation instructions detail requirements and procedures to be followed for proper installation of the Matrix 501 Asphaltic Plug Bridge Joint System. Usage, materials, equipment, preparation, cleaning and construction requirements are covered. Installation consists of constructing the joint blockout, preparing the joint surfaces, installing bridging plates, heating and mixing the mastic, placing the mastic and applying surface dressing aggregate. With proper installation, long lasting durable joints are achieved.

USAGE The Matrix Asphaltic 501 Plug Bridge Joint System can be used for both expansion and fixed end joints at abutments or piers in many bridge types including concrete slab, concrete beam, prestressed concrete and steel beam, either simple or multispans and in either new construction or rehabilitation. The Matrix 501 Joint can be used for maximum joint movements of +/- 1 inch (25mm) and maximum expansion gap widths of 6 inches (15 cm) at time of installation. **For expansion gaps between 3 and 6 inches (7.6 to 15cm) contact a Crafco representative for details.** The Matrix 501 Joint can be installed on joints with up to a 45 degree skew. The Matrix 501 Joint can also be used as a pressure relief joint on bridge approach slabs or as a longitudinal joint that is not in traffic lanes. The deck surface must be capable of accepting a minimum depth of 2 inches (5 cm). Maximum joint depth is 8 inches (20 cm). Standard installed width is 20 inches (51 cm), with a maximum width of 24 inches (61cm).

MATERIALS and QUANTITIES The following materials are required for installation of the Matrix 501 Asphaltic Plug Bridge Joint System. Specifications for each item are listed in the Crafco Product Data Sheet for the Matrix 501 Asphaltic Plug Bridge Joint System. Quantities shown are for estimating purposes for a standard size 2 inch (5cm) deep by 20 inch (51cm) wide joint with a 1.5 inch (38 mm) expansion gap.

Item	Crafco Part No.	Estimating Quantity
Matrix 501 Mastic	33345	35 lb/ft (52 kg/m)
Matrix 501 Adhesive	33346	1.5 lb/ft (2.2kg/m)
D Surface Dressing Aggregate	33030	3.3 lb/ft (5 kg/m)
Bridging Plates	Local Availability	Quantity as needed
Locating Pins	Local Availability	1 per foot (0.3m)
Backer Rod	34609	1 per 6 feet (1.8m)

All materials required and in sufficient quantities should be present on the jobsite prior to beginning joint installation. All materials should be properly stored and protected from the weather prior to use.

EQUIPMENT Following is a list of suggested equipment that is needed for proper joint installations.

Item	Quantity	Item	Quantity
CRAFCO Patcher 1, Patcher II w/ ironing wands and scrapers or approved equal	1	12" long handled squeegee	1
Oil Jacketed melter or approved direct fire sealant melter	1	Steel bucket, 3 - 5 gallon	2 to 3
125 CFM air compressor	1	Hand tools:	
Hot compressed air lance or hand held torch	1 to 2	3 lb. hammer	2
50 ft. air hose	1 to 2	50' chalk line	1
Concrete saw with diamond asphalt cutting blade	1	50' tape measure	2
Asphalt breaker with chisel attachments	2	Wire Brushes	2
100 lb. LPG cylinders with hoses & fittings	3 to 4	2" wide masking/duct tape roll	As needed
Steel cutting torch	1	Box cutter utility knife	3
High pressure air blow pipe	1	Heavy duty work gloves	6
Steel rakes	3 to 4	Heavy duty flash light	4
Flat end steel scraper	2 to 3	Equipped tool box	1
Straight edge utility shovel	2	First Aid kit	1
Heavy-duty push broom	2	Hand held temperature gauge	1

TEMPERATURE and WEATHER Pavement temperature during installation of the Matrix 501 Asphaltic Plug Joint System should be a minimum of 40°F (5°C) and weather should be dry with no signs of imminent rain. Blockout, cleaning and preparatory work can be done at lower temperatures.

BLOCKOUT PREPARATION The Matrix 501 Joint shall be centered within 1 inch (25 mm) over the existing expansion joint gap to the recommended width of 20 inches (50cm). If needed, due to site conditions, joint width can be increased to a maximum of 24 inches (61 cm). Saw cut the pavement transversely at the determined width which is normally 10 inches (25cm) on each side of the expansion gap centerline, and parallel to the expansion gap through the surfacing and down to the concrete deck. Remove all material between the saw cuts, including the waterproofing, riser bars, old expansion joint material and loose concrete from the bridge deck. This will form the bridge joint blockout. The blockout must be cut to a minimum depth of 2 inches (50mm). In some cases, this may require scarifying of the concrete bridge deck with a small scabbler. Abrasive blasting may be required to obtain intact surfaces. The joint expansion gap shall be cleaned of all loose debris. Care should be taken to yield a level joint base. The blockout base should be clean, intact and sound, and should be flat without elevation differences greater than 1/8 inch (3 mm) across the joint expansion gap. If the joint surfaces are not level, the steel plate may not bridge the joint correctly and may rock and displace under traffic loadings causing debonding or cracking of the installed joint. A properly installed and cured rapid setting concrete patch material may be used to level the joint surfaces. Additional substrate material may also be removed to level the joint surfaces. When removing the loosened surfacing, care should be taken to not damage the deck.

CLEANING, DRYING The joint blockout shall be further prepared by cleaning and drying all horizontal and vertical surfaces and at least 6 inches (15 cm) of the road surfacing adjacent to the vertical saw cuts with a hot compressed air (HCA) lance. If there is an interruption due to weather or other causes, the cleaning and drying operations are to be repeated prior to continuing with joint installation.

SEALING and BRIDGING the JOINT EXPANSION GAP

Backer Rod - Backer rod capable of withstanding elevated temperature of the binder shall be placed into expansion joint gaps that are 1/8 inch (3mm) or wider. Place the backer rod at a minimum depth of 1/2 inch (12mm) and not exceeding 1 inch (25mm).

Matrix 501 Adhesive - Heat Matrix 501 Adhesive in a melter with effective agitation that meets requirements of appendix X1.1 of ASTM D6690 or heat in an approved direct fired machine. Direct fired melters must be small (50 gallons (190L) maximum) and must be bottom fired. The Matrix 501 Adhesive can only be heated to application temperature once when using a direct fire melter. The unit must be capable of safely heating product to 400°F (204°C). CAUTION: Do not agitate when adding product due to splashing. To use, adhesive is heated to between the recommended installation temperature and the maximum (safe) heating temperature of 380 to 400°F (193 to 204°C). Pour heated Matrix 501 Adhesive into the expansion gap, overfilling, and spreading the adhesive on the bottom deck surface of the joint blockout on each side of the expansion gap, at a depth 1/8 inch (3mm) and to extend just beyond the edges of the bridging plates. The Matrix 501 Adhesive forms a flexible adhesive bond between the bridging plate and the bottom surface of the joint blockout.

Bridging Plates - Bridging plates are then immediately placed by centering over the expansion gap and butt jointing to cover the entire joint length and then embedded into the hot Matrix 501 Adhesive. Use centering pins placed through the holes in the bridging plates and down into the expansion gap to assure proper centering. Bridging plates shall be cut to the appropriate length to extend the full length of the joint without overlap. For expansion gaps up to 3 inches (7.6 cm) wide, 1/4 inch (6.4 mm) thick bridging plates that are 8 inches (20 cm) wide shall be used. For expansion gaps between 3 and 6 inches (7.6 to 15 cm) wide, 3/8 inch (10 mm) thick plates that are 12 inches (30cm) wide shall be used. Plate length shall be between 36 and 60 inches (0.9 to 1.5 m). Plates shall be clean, free from surface rust, oil, or other residues and contaminants when installed.

TANKING (COATING) the JOINT BLOCKOUT All prepared exposed horizontal and vertical surfaces of the joint blockout, including the bridging plates, shall be tanked (coated) with hot Matrix 501 Adhesive. Pour Matrix 501 Adhesive into the joint blockout and spread to coat all exposed surfaces. The adhesive coating shall achieve a minimum thickness of 1/32 inch (1mm) and should not exceed 1/8 inch (3mm) throughout. The adhesive application temperature shall be between 380 and 400°F (193 and 204°C).

MELTING AND HEATING THE MATRIX 501 MASTIC Matrix 501 Mastic is supplied in solid form in a meltable plastic bag in a cardboard box. The aggregate and polymer modified binder are pre-measured and packaged and are not pre-mixed. To use, the bag of Matrix 501 Mastic is removed from the box and then placed in a Crafcro Patcher I or II melter or other approved melter to heat and mix the product. If inappropriate melters are used, improper material mixing and heating, application difficulties, pump system damage and extreme wear can result. The melter must be equipped with an effective horizontal agitator system that is able to maintain a uniformly mixed product, have a thermostatically controlled hot oil jacketed heating system and have an effective means of dispensing product. During heating, the heat transfer oil should not exceed 525°F (274°C). Agitation should begin as soon as the material is melted sufficiently for the agitator to turn. Additional material can then be added to the melter. Heating and agitation should continue until all added material has been mixed and is between 380 - 400°F (193 - 204°C). Additional material can be added as product is used and the quantity in the melter decreases. When adding additional material, the agitator must be stopped. After the additional material is added, agitation is to be immediately resumed and application shall not resume until required temperatures are reached and all added material has melted, becoming well mixed with no uncoated aggregate. During application and while product is hot, agitation shall be continuous (except when adding additional material) to guard against aggregate settlement. If aggregate settles in melter, it may be difficult to agitate product. For best performance, it is recommended that the melter be emptied or only small amounts of be left in the melter at the end of each work day.

PLACING MATRIX 501 MASTIC Strips of masking tape are applied to the pavement surface approximately 1/2 in. (12 mm) from and parallel to the edge of each side of the joint along the entire joint length. The Matrix 501 Mastic will be installed in one or multiple lifts depending on the depth of the joint. For joint depths up to 2 ½ inches (63 mm), install Matrix 501 Mastic in one layer up to ¼ inch (6.4mm) above the pavement surface to allow for cooling shrinkage. For joints deeper than 2 ½ inches (63mm), install the Matrix 501 Mastic in multiple layers. The maximum layer thickness installed shall be 2 ½ inches (63mm). For joints deeper than 2 ½ inches (63mm), fill the joint breakout to ¾ to 1 inch (19 to 25mm) below the pavement surface using successive layers that do not exceed 2 ½ inch (63mm) thickness. Allow the Matrix 501 Mastic surface to cool to a maximum of 180F (82C) prior to installing the final top layer. The final top layer shall be approximately 1 inch (25mm) thick and installed to ¼ inch (6.4 mm) above the pavement surface level. Matrix 501 Mastic temperature when installed shall be between 380-400°F (193-204°C). Each layer of the hot Matrix 501 Mastic is placed into the joint breakout and raked to level to the desired thickness. Use hot steel rakes or Patcher ironing wands to spread and level the mixture. Compaction is not required. The masking tape forms straight edges which improve the finished appearance of the joint.

INSTALLING D DRESSING AGGREGATE When the surface of the Matrix 501 Mastic cools below 250°F (121°C) remove the masking tape. The D Dressing Aggregate must be applied when the surface temperature is between 225 - 250°F (107 - 121°C). When the surface has cooled to 225- 250F (107-121C) as measured by an IR thermometric device, immediately apply D Surface Dressing aggregate by broadcasting at the rate of approximately 3 lbs. per lineal foot depending on the width of the joint. If needed, the surface of the Matrix 501 Mastic can be gently heated with a torch or heat lance to bring the surface into the proper temperature range. The aggregate must be clean and dry and applied while the binder is hot to achieve proper adhesion. The Matrix 501 Bridge Joint is then allowed to cool and will be ready for traffic approximately 1-2 hours after completion. Joints deeper than 3 inches (7.6 cm) joints will require longer cooling times depending on joint depth and ambient temperature. After cooling, sweep the joint surface with a push broom to remove excess or loose surface aggregate. Clean the job site of packaging, loose aggregate or other debris and open to traffic.

SAFETY PRECAUTIONS Since joint installation requires products that are heated to elevated temperatures, it is essential that operations be conducted safely. All personnel need to be aware of hazards of using hot applied materials and safety precautions. Before use, the crew should read and understand product use and safety information on the box and the product MSDS. User should check D.O.T. requirements for transportation of product at elevated temperatures above 212°F (100°C).

HAZARDS ASSOCIATED with HOT APPLIED MATERIALS Skin contact with hot materials causes burns. Over exposure to fumes may cause respiratory tract irritation, nausea, or headaches. Precautions are to be taken to prevent contact with hot material and to avoid inhalation of fumes for everyone in the vicinity. Safety precautions should include:

1. Protective clothing to prevent skin contact with hot material.
2. Care when adding product to melters to reduce splashing.
3. Careful operation of mixing and application equipment.
4. Traffic and pedestrian control measures which meet or exceed local requirements to prevent access to work areas while product is in a molten state.
5. Avoidance of material fumes.
6. Proper application configurations with a minimum amount of material excess.
7. Appropriate clean up of excessive applications or product spills.

ADDITIONAL INFORMATION Additional information regarding the Matrix Asphaltic Plug Bridge Joint System is available by contacting your distributor or Crafcoc, Inc. This information includes:

1. Product Data Sheets,
2. Material Safety Data Sheets,
3. Safety Manual

ARTICLE 2A-1

LABOR PROVISIONS

1. CONTRACTOR'S BONDS:

Payment and performance bonds are required to be filed prior to issuance of the notice to proceed. The specific requirements for such bonds are set forth in Section 3.124 of the General Provisions.

2. EQUAL EMPLOYMENT OPPORTUNITIES:

It is the policy of the City of Pueblo to provide equal opportunity in employment without regard to race, color, religion, sex, sexual orientation, ancestry, disability, age or national origin. It is hereby deemed and declared to be for the public welfare and in the best interests of the City of Pueblo to require bidders and contractors furnishing and providing work, services, supplies and materials to the City of Pueblo under Municipal Contracts not to discriminate in the hiring and promotion of employees in order to further equal employment opportunities for members of minority groups and women. Failure to subscribe to and accept the non-discrimination and equal employment requirements shall render a bidder ineligible for a Municipal Contract award and ineligible to participate in the work for which a Municipal Contract award is made.

3. MUNICIPAL CONTRACT PROVISIONS:

During the performance of this contract, the Contractor agrees as follows:

- a. The Contractor will not discriminate against any employee or applicant for employment because of race, color, religion, sex, sexual orientation, ancestry, disability, age or national origin. The Contractor will take affirmative action in all areas of employment to insure that applicants for employment are employed, and that employees are treated during employment, without regard to race, color, religion, sex, sexual orientation, ancestry, disability, age or national origin. Areas of employment shall mean and include, but shall not be limited to the following: initial employment, up-grading, demotion, transfer, recruitment, recruitment advertising, lay-offs, terminations, rates of pay, terms of compensation, and selection for training, including apprenticeship. The Contractor will post in conspicuous places, available to employees and applicants for employment, notices to be provided by the City of Pueblo setting forth the provisions of this non-discrimination and equal opportunity paragraph.
- b. The Contractor will, in all solicitations or advertisements for employees placed by or on behalf of the Contractor, state that all qualified applicants will receive consideration for employment without regard to race, color, religion, sex, sexual orientation, ancestry, disability, age or national origin.
- c. The Contractor will meet and comply with the letter and spirit of Chapter 8, Title I of the Pueblo Municipal Code, as amended, and applicable State Statutes. If this Municipal Contract involves construction work or the providing of supplies or materials in excess of ten thousand dollars (\$10,000.00) in the building and construction trades industry, the Contractor

shall have adopted and file with the City a copy of the Contractor's Complying Affirmative Action Program. A Complying Affirmative Action Program shall be a written affirmative action program meeting all the requirements of Chapter 60 of Title 41, Code of Federal Regulations (41 CFR, Chapter 60), including all parts and subparts thereof. This requirement for having adopted and filing a Complying Affirmative Action Program applies to this contract, regardless of whether federal financial assistance has been provided for this Project.

- d. In the event of the contractor's non-compliance with the non-discrimination and equal employment requirements of Chapter 8, Title I of the Pueblo Municipal Code, as amended, the contract may be cancelled, terminated or suspended in whole or in part and the contractor may be declared ineligible for further contracts with the City of Pueblo.
- e. The Contractor will include the provisions of the above listed paragraphs (a) through (d) in every sub-contract entered into by contractor to provide and furnish work, services, supplies or materials under a Municipal Contract.

4. COMPLIANCE REVIEW:

- a. The City of Pueblo's Personnel Specialist shall have the power to review, upon not less than five (5) days notice, and during normal business hours, the employment practices of contractors during the performance of every such Municipal Contract, and of sub-contractors during the performance of every sub-contract awarded thereunder, in order to obtain information relating to compliance or non-compliance with the non-discrimination and equal employment opportunity requirements of this Chapter.
- b. When a written complaint is filed and an investigation by the Personnel Specialist indicates that there has been a violation of this Chapter or when a compliance review by the Personnel Specialist indicates that a contractor or sub-contractor has violated this Chapter, he shall issue and cause to be served on said contractor or sub-contractor, a Notice of Violation. Such Notice shall specify the violations and shall direct the contractor or sub-contractor to respond in writing within ten (10) days to show cause why the sanctions of this Chapter should not be imposed. The Personnel Specialist shall forward a copy of the Notice of Violation and the response of the contractor or sub-contractor to the City Manager within thirty (30) days from the date of the Notice of Violation.
- c. The City Manager or his authorized representative shall review the Notice of Violation and the contractor or sub-contractor's response and shall determine whether any violations have occurred. If the City Manager or his authorized representative has determined that a violation has occurred, he may impose such sanctions as he deems appropriate, including but not limited to, suspending or terminating the contract involved or any portion or portions thereof, or causing to be removed from the list of eligible pre-qualified contractors the names of contractors and sub-contractors found to be in non-compliance with the non-discrimination or equal employment opportunity requirements of this Chapter and the provision of any such contract or sub-contract awarded thereunder until such time as the City Manager is satisfied that such contractors or sub-contractors are in compliance with the non-discrimination and equal employment opportunity requirements of this Chapter.

5. FEDERAL REQUIREMENTS GOVERN:

Whenever the provisions and requirements of this Chapter, or of the bidding specifications, conflict in any way or to any degree with the non-discrimination and equal employment opportunity requirements of the United States of America and any such contract under consideration is funded in whole or in part by the United States of America, or is otherwise subject to requirements having the force of law of the United States of America, then such requirements of the United States of America shall govern and control.

By submitting a bid for subject project the Contractor agrees that he will abide by the provisions herein set forth and that he will require any and all sub-contractors to also comply with said provisions.

ARTICLE 3
GENERAL PROVISIONS
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ARTICLE 3
GENERAL PROVISIONS
3.00 - GENERAL

The provisions of this Article are of a general nature and are intended to apply to contract work of all types. Whenever any of these provisions do not apply to a specific contract, the exceptions are noted in the Special Provisions (Article 2).

3.1 - BIDDING AND CONTRACT EXECUTION

3.101 - DEFINITIONS

The following terms, as used in these contract documents are respectively defined as follows:

- (a) "City" City of Pueblo, Colorado.
- (b) "Closing Time" The scheduled closing time for the receipt of bids, and the opening thereof.
- (c) "Contractor" The person, persons, firm, or corporation to whom the within contract is awarded by the City and who is subject to the terms of said contract. Also the agents, employees, workmen, or assignees of said Contractor.
- (d) "Engineer" Unless otherwise stated in Article 2, Engineer shall mean the Director of Public Works of Pueblo, Colorado, or his authorized agents.
- (e) "Work" All work contemplated by the Contract Documents and Specifications including materials, labor, supervision, and use of tools necessary to complete the project in full compliance with the terms of the contract.
- (f) "Notice" Where in any section of the Contract Document there is any provision in respect to the giving of any notice, such notice shall be deemed to have been given (as to the City) when written notice shall be delivered to the Engineer or shall have been placed in the United States Mails addressed to the City Manager at the place where the bids, or proposals for the contract were opened; (as to the Contractor) when a written notice shall be delivered to the chief representative of the Contractor at the site of the project to be constructed under the contract or when such written notice shall have been placed in the United States mails addressed to the Contractor at the place stated in the papers prepared by him to accompany his proposal as the address of his permanent place of business; (as to the Surety) on the performance and payment bonds when a written notice is placed in the United States mails addressed to the Surety at either the home office of such Surety or when such notice is placed in the United States mails addressed to the Commissioner of Insurance of the State of Colorado.
- (g) "Project" The entire improvement proposed by the City to be constructed in whole or in part pursuant to the within contract.
- (h) "Subcontractor" A person, firm, or corporation, other than the Contractor, supplying labor and materials, or labor only, on work at the site of the project, having a direct

contract with the Contractor and including one who furnishes material worked to a special design according to the plans and specifications of this work, but not including one who merely furnishes material not so worked.

- (i) "Surety" The person, firm, or corporation that has executed, as surety, the Contractor's Performance and Payment Bonds.

3.102 - SITE EXAMINATION

- (a) Bidders shall inform themselves of the conditions under which the work is to be performed, concerning the site of the work, the structure of the ground, obstacles which may be encountered, availability of labor and all other relevant matters concerning the work to be performed. Where soil reports or test boring logs indicating underground conditions are provided or shown on the plans, such information shall be considered only as indicative of conditions as observed at the time and place indicated, and the City in no way warrants the accuracy or reliability of said reports or boring logs and is not responsible for any deduction, interpretation or conclusion drawn therefrom by the Contractor. Contractor acknowledges that the City shall not be held responsible for any variance in conditions or unforeseen conditions encountered at the time of actual construction. It shall be the responsibility of the Contractor to satisfy himself by such methods as he deems necessary prior to the letting as to underground conditions, structures and obstacles to be encountered.
- (b) The Contractor to whom a contract is awarded will not be allowed any extra compensation by reason of any matter or thing concerning which he might fully have informed himself, prior to the bidding. Misunderstanding as to the amount of work, availability of materials or labor shall be no cause for failure to enter into the contract or to perform the same.
- (c) The successful Contractor will be required to employ, so far as possible, such methods and means in the carrying out of his work as will not cause any interruption or interference with any other Contractor.

3.103 - SPECIFICATION REQUIREMENTS

- (a) The bidder is expected to base his bid on materials and equipment complying fully with the plans and specifications, and in the event he names in his bid, materials or equipment which do not conform, he will be responsible for furnishing materials and equipment which fully conform at no change in his bid price.
- (b) Before submitting a proposal, each Contractor should read the complete specifications and plans, including all related documents contained herein, all of which contain provisions applicable not only to the successful bidder, but also to his subcontractors.

3.104 - STATEMENT OF BIDDER'S PLANT AND FINANCIAL CONDITION

- (a) Each bidder shall be prepared to submit the following data within seven (7) days upon demand of the Purchasing Agent:
 - (1) A statement that the bidder maintains a permanent place of business and address thereof;
 - (2) A statement of the equipment which the bidder proposes to use on the project, together with a statement identifying that equipment previously mentioned which the bidder owns and that which he does not own, but is certain he will be able to rent or otherwise procure for use on the project;
 - (3) A financial statement, duly sworn to and in form approved by the City, listing assets and liabilities;

- (4) Statement listing projects of similar nature which the bidder has constructed or in the construction of which the bidder was actively engaged in a responsible capacity.
 - (5) A statement that the bidder: (i) is not presently debarred or suspended by the Colorado State purchasing director or the head of any Colorado purchasing agency, (ii) is not listed on any federal government list of debarments, suspensions or voluntary exclusions, including but not limited to, the List of Parties Excluded From Federal Procurement or Nonprocurement Programs maintained by the General Services Administration, and (iii) neither bidder nor any person or firm who has an interest in bidder's firm is a person or firm ineligible to be awarded a federal government contract by virtue of any provision of federal law. In the event bidder cannot truthfully make the required statement, bidder shall furnish a detailed statement indicating the reasons therefore.
- (b) By submitting a bid, bidder authorizes the City to obtain information concerning bidder's performance on other projects it has performed during the prior five (5) years, including those listed by bidder and those not listed which City may become aware of. By submitting its bid, the bidder also waives and releases all claims against owners, architects, and engineers, and their agents and representatives, relating to or arising from the furnishing of such information to the City concerning bidder's performance on prior projects. In order to effectuate the intent of this clause, bidder may be required by City to execute information release authorization forms.
 - (c) Any bidder may be required by the City to submit additional data to satisfy the City that such bidder is prepared to fulfill the contract if it is awarded to him.
 - (d) The failure of bidder to furnish any information which is or may be required to be furnished under this section shall be grounds for determining bidder not responsible.

3.105 - CONDITIONS IN A BIDDER'S PROPOSAL

A bidder shall not stipulate in his proposal any conditions not contained in the Form of Proposal contained in the Contract Documents.

3.106 - QUANTITIES

Bidders must satisfy themselves by personal examination of the locations of the proposed work and by such other means as they may prefer as to the correctness of any quantities listed in the proposal and shall not after submission of their proposal, dispute or complain of such estimate, nor assert that there was any misunderstanding in regard to the nature or amount of work to be done.

3.107 - COPIES OF DOCUMENTS

Each bidder will be furnished with one copy of the specifications and related documents upon deposit as stated in the Advertisement for Bid. All proposals must be made in the complete copy of specifications and related documents.

3.11 - BIDS

3.111 - DATA SHEETS

Where data sheets concerning equipment to be furnished are included in the Specification Documents as a part of the proposal, the bidder shall furnish the required information by filling in the data sheets complete in every detail. In the event that such data sheets are insufficient, or do not readily lend themselves to the correct description of the equipment, the bidder shall file with the bid additional statements setting out the necessary information. Failure to furnish such information as is required on the data sheets will be considered

as grounds for rejecting the bid.

3.112 - SUBMISSION AND CONSIDERATION OF BIDS

- (a) Each proposal shall be firmly sealed in an envelope labeled as designated in the Advertisement for Bids and delivered to the office of the Purchasing Agent, City of Pueblo.
- (b) All bids are to be made only on forms of proposal furnished by the City and included in this volume. Total bid prices are to be written both by words and by figures; in case of conflict, former will apply. Unit bids may be made by figures only. No bid will be accepted which does not contain an adequate or reasonable price for each and every item named in the bidding schedule on the contract bid form.
- (c) Only proposals which are made out upon the regular proposal forms attached hereto will be considered. The proposal forms must not be separated from the attached volume. Any correction on the proposal form must be initialed by the same person signing the bid.
- (d) The City reserves the right to waive any informality in bids.
- (e) The City reserves the right to reject any or all bids, or any or all parts of bids
- (f) A Colorado resident bidder shall be allowed a preference against a nonresident bidder to the extent authorized by, and subject to the limitations of, Articles 18 and 19 of Title 8, Colorado Revised Statutes; provided however, that this paragraph (f) shall be suspended to the extent any such preference is inconsistent with a requirement of federal law or the terms and conditions of any grant or cooperative agreement to which the City is a party which relates to the Project.

3.113 - BID SECURITY

- (a) No proposal will be received unless accompanied by a certified check, cashier's check, postal money order, bid bond or other suitable collateral, as set forth in the Request for Bids, payable to the City as a guarantee that if the bid is accepted, the bidder will execute and file the proposed contract and bonds within ten (10) days from the date of the award of the contract. On failure of the successful bidder to execute the contract and furnish bonds, he shall forfeit the deposit as agreed as liquidated damages, and the acceptance of the bid will be contingent upon the fulfillment of this requirement by the bidder.
- (b) The bid security of the three lowest formal bidders for each contract may be held until the contract is executed and approved and then returned to the bidders. The balance of bid securities submitted will be returned within seven (7) days after the opening of bids.

3.114 - SIGNING OF BIDS

- (a) Bids which are not signed by individuals making them should have attached thereto a power of attorney evidencing authority to sign the bid in the name of the person for whom it is signed.
- (b) Bids which are signed for a co-partnership should be signed by all of the co-partners or by an attorney-in-fact. If signed by an attorney-in-fact, there should be attached to the bid a power of attorney evidencing authority to sign the bid.
- (c) Bids which are signed for a corporation should have the correct corporate name thereof signed in handwriting or in typewriting and the signature of the president or other authorized officer of the corporation should be manually written below the written or typewritten corporate name following the words "by _____".

Title

- (d) If bids are signed for any other legal entity, the authority of the person signing for such legal entity should be attached to the bid.

3.115 - MODIFICATION OF BIDS

Modification of bids already submitted will be permitted, provided such modification be in writing and transmitted to the Purchasing Agent of the City prior to closing time. Such modification shall not reveal the total amount of the original or revised bid.

3.116 - WITHDRAWAL OF BIDS

Any bidder may withdraw his bid any time prior to the closing time, but no bid shall be withdrawn for a period of sixty (60) days after closing time. Negligence or mistake on the part of the bidder shall not constitute a right to withdraw after closing time. Any bid received after closing time will be returned unopened.

3.117 - DUPLICATION OF BIDS

If more than one bid be offered by one party, all such bids shall be returned unopened. If duplicate bids are not discovered until after opening, such duplication shall be cause for immediate rejection of such bids. A party who has quoted prices to a bidder is not thereby disqualified from quoting prices to other bidders, or from submitting a direct bid on his own behalf.

3.118 - ALTERNATES

- (a) If the proposal forms include alternates, each bidder shall bid on each alternate unless otherwise directed in the Special Conditions or other Contract Documents.
- (b) Each bidder must submit such special data, if any, in respect to such alternate which any section of the Contract Documents require to be submitted with each bid.

3.119 - SUPPLEMENTAL UNIT PRICES

- (a) On a lump sum contract, or partial lump sum contract, the City reserves the right to reject any or all supplemental unit prices which it deems to be excessive or unreasonable.
- (b) In cases where any part or all of the bidding is to be received on a unit price basis, the quantities stated are not intended to govern. The quantities stated, on which unit prices are to be invited are approximate only, and each bidder will be required to make his own estimates of amounts, and to calculate his unit price bid accordingly. Bids will be compared on the basis of the stated number of units in the proposal form. Such estimated quantities, while made from the best information available, are approximate only. Payment on the contract will be based on actual number of units installed on the completed work. In the event of an error in the extension of prices, the unit price bid shall govern.

3.12 - CONTRACTS

3.121 - AWARD OF CONTRACT

- (a) The contract may be awarded to the lowest and best, reliable and responsible bidder submitting a responsive bid within sixty (60) days from the date of opening of said bids.
- (b) Subject to execution of the Contract Agreement by the Director of Finance certifying that a balance of appropriation exists and funds are available, the amount of money appropriated is equal to or in excess of the Contract price; provided, however, that if construction is phased and subject to annual

appropriation, funds only in the amount of initial appropriation are available and contractor shall confirm availability of funds before proceeding with work exceeding initial and subsequent annual appropriations.

3.122 - DEFINITION OF AWARD

The contract shall be deemed to have been awarded when formal notice of award shall have been duly served upon the intended awardee (i.e., the bidder to whom the City contemplates awarding the contract) by the Purchasing Agent of the City.

3.123 - EXECUTION OF CONTRACTS AND BONDS

- (a) The successful bidder shall enter into a written contract agreement with the City on the form attached hereto. The bidder must comply with all State and Federal Laws as to provision of Workers' Compensation. Such contract agreement shall be subject to the Charter of Pueblo, the Code of Ordinances, City of Pueblo, and the Ordinance, if any, creating any Special Improvement District formed to carry out this project.
- (b) Each contract must be executed in not less than four (4) original counterparts, and there shall be executed original counterparts of the Contractor's performance bond and payment bond in equal number to the executed original counterparts of the contract. Not less than two (2) copies of such executed documents will be retained by the City and two (2) copies will be delivered to the Contractor. The successful contractor must provide workers' compensation insurance and public liability and property damage insurance as outlined in the General Conditions of the Contract. The costs of executing the bonds and contract and insurance, including all notarial fees and expense, are to be paid by the Contractor to whom the contract is awarded.

3.124 - CONTRACT SECURITY

The Contractor shall furnish a good and sufficient Performance Bond and a Payment Bond on the forms attached hereto each in an amount not less than the full amount of the Contract price, as security for the faithful performance of the contract and for the payment of all persons performing labor and furnishing material in connection with the work. Said bonds shall be executed by a corporate surety duly authorized to issue bonds in the state of Colorado. Said bonds shall also be complete surety for all guarantees of materials and workmanship required by any provision of the Contract Documents or the specifications. If at any time during the continuance of the contract a Surety on either of the Contractor's bonds becomes irresponsible or insolvent the City shall have the right to require additional and sufficient sureties which the Contractor shall furnish within ten (10) days after written notice to do so.

3.125 - VERBAL AGREEMENTS

No verbal agreements or conversations with any agent or employee of the City, either before or after execution of the Contract, shall affect or modify any of the terms or obligations contained in any of the documents comprising said contract.

3.126 - SCHEDULE OF UNIT PRICES

- (a) Promptly following the execution of the contract documents for all lump sum contracts, the Contractor shall prepare and transmit to the Engineer two copies of an itemized breakdown showing the unit quantities of each major construction item and the corresponding unit prices. Such unit prices shall contain all costs including profit, of each item complete in place. The total cost of all the items shall equal the contract price for the project. This breakdown when approved by the Engineer, will be used primarily in determining payment due the Contractor on periodical estimates. If, in the opinion of the Engineer, any unit price submitted by the Contractor is unbalanced, a detailed breakdown of the items contained in the unit will be required.

- (b) For contracts bid on a unit price basis, unit bid prices for substantially completed work will be used in determining payment due the Contractor on periodical estimates. Partially completed units may be paid for in periodical estimates.

3.13 - SUBCONTRACTS

3.131 - SUBCONTRACTORS

- (a) The Contractor shall as soon as possible after the execution of the Contract, notify the City in writing of the names of the subcontractors proposed on the Contract, and shall not employ any subcontractor that the City objects to as incompetent or unfit. Additionally, Contractor shall not employ in the work any subcontractor, nor obtain materials from any supplier, who is (1) debarred or suspended by the Colorado state purchasing director or head of any Colorado purchasing agency or (2) listed on any federal government list of debarments, suspensions or voluntary exclusions, including but not limited to, the List of Parties Excluded from Federal Procurement or Nonprocurement Programs maintained by the General Services Administration.
- (b) The Contractor agrees to be fully responsible to the City for the acts or omissions of his subcontractors and of any one employed directly or indirectly by him or them and this contract obligation shall be in addition to the liability imposed by law upon the contractor.
- (c) Nothing contained in the contract documents shall create any contractual relationship between any subcontractor and the City.
- (d) The Contractor agrees to bind every subcontractor (and every subcontractor of a subcontractor) by the terms of the General Provisions and the Special Provisions of the Contract, Plans and Specifications as far as applicable to his work, unless specifically noted to the contrary in a subcontract approved in writing as adequate by the City.

3.132 - ASSIGNMENT OF CONTRACT

No assignment by the contractor of any principal construction contract or any part thereof or of the funds to be received thereunder by the contractor, will be recognized unless such assignment has had the written approval of the City and the Surety has been given due notice of such assignment and has furnished written consent thereto. Such written approval by the city shall not relieve the contractor of the obligations incurred by him under the terms of this contract. In addition to the usual recitals in assignment contracts, the following language must be set forth:

"It is agreed that the funds to be paid to the assignee under this assignment are subject to a prior lien for services rendered or materials supplied for the performance of the work called for in said contract in favor of all persons, firms or corporations."

3.133 - OTHER CONTRACTS

The City may award other contracts for additional work, at the site of the project (or other locations) and the Contractor shall fully cooperate with such other contractors and carefully fit his own work to that provided under other contracts as may be directed by the City. The Contractor shall not commit or permit any act which will interfere with the performance of work by any other contractor.

3.2 - INDEMNITY AND INSURANCE

3.21 - INDEMNITY

The contractor and his sureties shall indemnify, defend and save harmless the City of Pueblo and all of its

officers, agents and employees from all suits, actions or claims of any character, name and description brought for or on account of any injuries or damage received or sustained by any person or persons or property, on account of any negligent act or fault of the Contractor, his agents or employees, in performance of said contract; or on account of the failure of the Contractor to provide necessary barricades, warning lights or signs; and shall forthwith pay any judgment, with costs, which may be obtained against the City, its officers, agents or employees, growing out of such injury or damage.

3.22 - CONTRACTORS INSURANCE

The Contractor shall not commence work under this contract until he has obtained at his own expense and without cost to the City all insurance required under this paragraph and such insurance has been approved by the City Attorney, nor shall the Contractor allow any subcontractor to commence work on his subcontract until all similar insurance required of the subcontractor has been so obtained and approved. The Contractor shall maintain such insurance until the final acceptance by the City of all construction covered by the contract.

(a) Commercial General Liability Insurance

The Contractor shall secure and maintain during the period of this contract and for such additional time as work on the project is being performed, Commercial General Liability Insurance issued to and covering the liability of the contractor with respect to all work performed by him and all his subcontractors under the contract, to be written on a Commercial General Liability policy form CG 00 01. This insurance shall be written in amounts not less than \$1,000,000 for each occurrence and aggregate for personal injury including death and bodily injury and \$1,000,000 for each occurrence and aggregate for property damage. This policy of insurance shall be endorsed naming the City of Pueblo, its agents, officers and employees as additional insureds. To the extent that Contractor's work, or work under his direction, may require blasting, explosive conditions, or underground operations, the commercial general liability coverage shall contain no exclusion relative to blasting, explosion, collapse of building, or damage to underground property. The policy shall also provide coverage for contractual liability assumed by Contractor under the provisions of the Contract, and "Completed Operations and Projects Liability" coverage.

(b) Comprehensive Automobile Liability Insurance

The Contractor shall procure and maintain during the period of the contract and for such additional time as work on the project is being performed, Comprehensive Automobile Liability Insurance. This insurance shall be written with limits of liability for and injury to one person in any single occurrence of not less than \$350,000 and for any injury to two or more persons in any single occurrence of not less than \$1,000,000. This insurance shall include uninsured/underinsured motorist coverage and shall protect the Contractor from any and all claims arising from the use both on and off the site of the project of automobiles, trucks, tractors, backhoes and similar equipment whether owned, leased, hired or used by Contractor.

(c) Workers' Compensation Insurance

The Contractor shall procure and maintain during the period of this contract and for such additional time as work on this project is being performed, Workers' Compensation Insurance, including Occupational Disease Provisions, fully complying with the provisions of the Workers' Compensation Act, as amended, of the State of Colorado. Such insurance shall be obtained notwithstanding that Contractor may have no employees as defined under said Act or that Contractor might otherwise avail itself of an exemption under the Act from any legal requirement to obtain such coverage. Such insurance shall cover all employees of Contractor performing work on the project irrespective of whether such employees may be shareholders, managers, partners or owners of Contractor or exempt employees under the Act.

If any class of employees engaged in hazardous work under this contract at the site of the project is not protected by the Workers' Compensation statute, the Contractor shall provide, and similarly

shall cause each subcontractor to provide, special insurance for the protection of such employees not otherwise protected. Workers' compensation policy shall contain an endorsement waiving subrogation against the City.

(d) **Builder's Risk Insurance**

When specified in Article 2, Special Provisions, the Contractor shall secure and maintain during the period of this Contract, Builder's Risk "All-Risk" Completed Value Insurance coverage (including vandalism) upon 100% of the cost of the entire project which is the subject of this Contract and including completed work, work in progress, and materials delivered to the site for incorporation therein. Such insurance shall include as additional named insureds, the City, its officers, agents and employees, and any other person with an insurable interest designated by the City as an Additional Named Insured. Such insurance may have a \$2,000 maximum deductible clause, which deductible amount shall be the responsibility of the Contractor. In the event the project site is located within the floodway or floodplain, or located within 500 feet of any lake, stream, river or other natural watercourse, the policy shall contain a flood endorsement.

(e) **Any Subcontractor Performing Work for the Contractor**

Any subcontractor performing work for the Contractor under the contract shall provide certificates of insurance protection to the Contractor and to the City of Pueblo, Colorado, of the same type and in the same amounts as required by the Contractor.

(f) **The Insurance Coverage**

The insurance coverage enumerated in the above subparagraphs constitutes the minimum requirements and said enumeration shall in no way lessen or limit the liability of the Contractor under the terms of the contract. The Contractor shall procure and maintain, at his own cost and expense, any additional kinds and amounts of insurance that, in his own judgement, may be necessary for his proper protection in the prosecution of the work.

(g) **Certificates of Insurance**

Certificates of Insurance for Workers' Compensation Insurance, Commercial General Liability Insurance and Comprehensive Automobile Liability Insurance shall be filed with the City prior to the execution of the contract. Certificates for Builder's Risk Insurance shall also be filed with the City when such insurance is required for the project. Said insurance shall not thereafter be canceled, permitted to expire, or be changed without 30 days advance written notice to the City.

3.3 - GUARANTEES, PATENTS, PERMITS

3.31 - GUARANTEES

- (a) All work shall be constructed in compliance with applicable building and construction codes, and must be guaranteed for a period of two (2) years from the date of final acceptance, or for such other period as may be required in the Special Provisions.
- (b) In placing orders for equipment the Contractor shall purchase same only under a written guarantee from the respective manufacturer that the equipment supplied will function satisfactorily as an integral part of the completed project in accordance with the plans and specifications. Furthermore, the Contractor shall require that the manufacturer agree in writing at the time the order for equipment is placed that he will be responsible for the proper functioning of the equipment in cooperation with the Contractor, and that whenever necessary during the installation period or tuning up period following construction period the manufacturer will supply, without additional cost to the City, such superintendence and mechanical labor and any additional parts and labor needed

to make the equipment function satisfactorily, even if same was not shown on approved shop drawings.

- (c) The provisions of this section concerning guarantee by Contractor shall be construed in a manner consistent with the requirements and limitations of 23 CFR § 635.413.

3.32 - PERMITS, SURVEYS AND COMPLIANCE WITH LAWS

- (a) Except as may otherwise be indicated in the contract documents, the Contractor shall procure at his own expense all permits, licenses and bonds necessary for the prosecution of his work, and/or required by Municipal, State, and Federal regulations and laws, including, but not limited to, permits for transportation of materials and equipment, blasting, environmental permits, and any other permit required for the project or contractor's operations, regardless of whether the necessity for such permit is disclosed in the plans and specifications.
- (b) The City will furnish all site surveys, easements and rights of way necessary for construction of any permanent works required in the specifications, where such work is to be done on property other than the City's.
- (c) The Contractor shall give all notices, pay all fees and taxes, including City Sales and Use Taxes, and comply with all Federal, State and Municipal laws, ordinances, rules and regulations and building and construction codes bearing on the conduct of the work. This contract as to all matters not particularly referred to and defined herein shall notwithstanding be subject to the provisions of all pertinent ordinances of the Municipality within whose limits the work is constructed, which ordinances are hereby made part hereof with the same force and effect as if specifically set out herein.
- (d) This contract is specifically subject to the provisions of the Charter of Pueblo, all applicable portions of the 1971 Code of Ordinances of Pueblo, Colorado, and of the ordinance, resolution or order of the City Council authorizing this improvement. The aggregate payment on this contract may not exceed the estimates of the Engineer nor the amount budgeted for the project. If the cost of the improvement to be constructed under this contract is to be assessed upon the owners of land benefited by such improvements, upon complaint of any such landowner that the improvement in not being constructed in accordance with the contract, the Council may consider the complaint and make such order in the premises as shall be just, and such order shall be final and conclusive.

3.33 - DEFENSE OF CLAIMS OR SUITS BY REASON OF PATENT INFRINGEMENT

The Contractor shall pay for all royalties and patents for any patented product used by him or incorporated in the work, and shall defend all claims or suits for infringement of any patent right brought against himself thereof; except such claims or suits arising by reason of patent infringements or unauthorized use of patented processes where such is the direct result of specification requirements (as distinguished from patented articles, apparatus or equipment).

3.34 - LICENSE OR ROYALTY FEES

If the project is designed so as to require or permit the use of a process or processes (as distinguished from articles, apparatus or equipment) for which license or royalty fees will be charged, such fees for the use of such processes will be paid by the Contractor to the Patentee, Licensee or owner of such process, and bidder shall include shall fees in their bid.

3.4 - PLANS AND SPECIFICATIONS

3.41 - PLANS AND SPECIFICATIONS

- (a) All work shall be executed in strict conformity with the plans and specifications, and the Contractor

shall do no work without proper drawings and instructions.

- (b) The City will furnish to the Contractor three (3) complete sets of contract documents, including drawings. Additional copies of same or any part thereof shall be furnished at the expense of the Contractor.
- (c) Figured dimensions on the plans shall be taken as correct but shall be checked by the Contractor before starting construction. Any errors, omissions, or discrepancies shall be brought to the attention of the Engineer and his decision thereon shall be final. All notes on the plans shall be followed. Corrections of errors, or omissions on the drawings or specifications may be made by the Engineer when such correction is necessary for the proper execution of the work.

3.42 - INTENT OF CONTRACT DOCUMENTS

- (a) The sections of the contract documents and the contract plans are complementary, and what is called for by any one shall be binding as if called for by all. The intention of the contract documents is to include in the contract price the cost of all labor and materials, water, fuel, tools, plant, equipment, light, transportation and all other expense as may be necessary for the proper execution of the work.
- (b) Any work shown on the plans and not covered in the specifications, or included in the specifications and not shown on the plans shall be executed by the Contractor as though shown both on the plans and included in the specifications. If the plans and specifications should be contradictory in any part, the specifications shall govern.
- (c) If the Contractor, in the course of the work, finds any discrepancy between the plans and the physical layout, or any errors or omissions in plans or layout, he shall immediately so inform the Engineer, and the Engineer shall promptly verify them. Any work done after such discovery without written consent of the Engineer authorizing same shall be done at the Contractor's risk.
- (d) Any minor items not specifically called for in the plans and specifications, but which are necessary to complete the work ready for use in accordance with the requirements of good practice, as determined by the Engineer, shall be included as a part of the Contractor's bid price and furnished at no additional cost to the City.
- (e) In interpreting the contract documents, words describing materials or work which have a well-known technical or trade meaning, unless otherwise specifically defined in the contract documents, shall be construed in accordance with such well-known meaning recognized by architects, engineers and the trade.

3.43 - INTERPRETATION OF CONTRACT DOCUMENTS

If any person contemplating submitting a bid for this contract is in doubt as to the true meaning of any part of the plans, specifications, or other contract documents, he may submit to the Engineer a written request for an interpretation thereof. The person submitting the request will be responsible for its prompt delivery. Any interpretation of the documents will be made only prior to closing time and by written addendum duly issued or delivered to each person receiving a set of such documents. The City will not be responsible for any other explanations or interpretations of the documents.

3.44 - STANDARD MANUFACTURER

Wherever the terms "standard", "recognized" or "reputable" manufacturer are used, they shall be construed as meaning manufacturers who have been engaged in the business of fabricating materials, equipment, or supplies of the nature called for by the specifications for a reasonable period of time prior to the date set for opening of bids, and who can demonstrate to the satisfaction of the City that said manufacturer has successfully installed equipment, materials, or supplies of the type proposed to be

furnished in at least three instances and that the performance of such materials, equipment, or supplies for a period of over twelve months prior to the date fixed for opening bids shall, prima facie, be deemed to have been engaged in such business for a reasonable length of time.

3.45 - "OR EQUAL" CLAUSE

Whenever in any section of the contract documents, plans or specifications, any article, material, or equipment is defined by describing a proprietary product, or by using the name of a manufacturer or vendor, the term "or equal" if not inserted, shall be implied. The specific article, material, or equipment mentioned shall be understood as indicating the type, function, minimum standard of design, efficiency, and quality desired and shall not be construed in such a manner as to exclude manufacturer's products of comparable equality, design and efficiency.

3.46 - MATERIALS AND WORKMANSHIP

- (a) The Contractor shall provide and pay for all materials, labor, water, tools, equipment, light, power, heat, transportation, and other facilities necessary for the execution and completion of the contract. Unless otherwise stipulated in the specifications, all workmanship, equipment, materials and articles incorporated in the work covered by this Contract are to be new and of the best grade of their respective kinds for their purpose. The Contractor shall furnish to the Engineer, for his approval, the name of the manufacturer of machinery, mechanical and other equipment, which he contemplates installing, together with their performance capacities and other pertinent information.
- (b) If not otherwise provided, material or work called for in this contract shall be furnished and performed in accordance with well-known established practice and standards recognized by architects, engineers and the trade insofar as possible.
- (c) When required by the specifications, or when called for by the Engineer, the Contractor shall furnish for approval full information concerning the materials or articles which he contemplates incorporating in the work. Samples of materials shall be submitted for approval when so directed. Machinery, equipment, materials and articles installed or used without such approval shall be at the risk of subsequent rejection. All materials and workmanship shall be guaranteed by the Contractor and Surety for a period of two (2) years from date of final acceptance, or for such period as may be required in the Special Provisions.
- (d) No material of any kind shall be installed in the project until it has been inspected and approved by the Engineer. All material rejected shall be immediately removed from the site of the work and not again offered for inspection. Any materials or workmanship found at any time to be defective shall be remedied at once regardless of previous inspections.
- (e) At any time during the course of construction of this project when in opinion of the Engineer, provisions of the plans, specifications, or contract provisions are being violated by the Contractor or his employees, the Engineer shall have the right and authority to order all construction to cease or material to be removed, until arrangements satisfactory to the Engineer are made by the Contractor for resumption of the work in compliance with the provisions of the contract.

3.47 - SHOP DRAWINGS

- (a) The Contractor, as soon as possible after approval of the source and the purchase of items of materials and equipment, shall submit to the Engineer all shop or setting drawings and schedules required for the work, including those pertaining to structural and reinforcing steel. The Contractor shall make any corrections in the drawings required by the Engineer, and resubmit same without delay.
- (b) Three final copies of all shop or setting drawings shall be submitted to the Engineer, who after checking will retain two copies and return one copy to the Contractor. The Engineer's approval of

shop drawings of equipment and material shall extend only to determining the conformity of such equipment and materials with the general features of the design drawings prepared by the Engineer. Shop drawings are not part of the Contract Documents and do not modify the Contract Specifications. It shall be the responsibility of the Contractor to determine the correctness of all dimensions and minor details of such equipment and materials so that when incorporated in the work correct operations will result.

3.5 - ENGINEER, INSPECTION AND TESTING

3.51 - AUTHORITY OF ENGINEER

- (a) The Engineer shall decide all questions which may arise as to the fulfillment of the contract on the part of the Contractor and his decision thereon shall be final and conclusive. He shall have authority to reject all work and materials which do not conform to the contract and to decide questions which arise in the execution of the work.
- (b) If, in the opinion of the Engineer, the work being done by the Contractor is in violation in any way with the terms of the contract, he shall forthwith notify the Contractor to cease said violation.
- (c) The Engineer shall, upon presentation to him, make prompt decisions in writing on all claims of the Contractor and on all other matters relating to the execution and progress of the work or the interpretation of the Contract documents. All such decisions of the Engineer shall be final and conclusive.
- (d) The Contractor shall submit schedules which shall show the order in which the Contractor proposes to carry on the work, but the right to stipulate the order in which the contract shall be carried out is reserved to the Engineer.
- (e) In the event either City or Contractor remains dissatisfied with the final decision of the Engineer hereunder, the City or Contractor may seek judicial review thereof pursuant to Rule 106, C.R.C.P. In no event shall the Contractor slow or stop the work while a determination is pending under this section 3.51, and the City will continue to make payment in accordance with the contract documents except as to any amount in dispute.

3.52 - TESTING OF MATERIALS

- (a) Attention of the Contractor is directed to the materials tests required on this contract. All laboratory tests shall be approved by an approved testing laboratory. The specific test requirements are set forth in the sections of these specifications which describe the materials or apparatus to be tested. The Contractor shall furnish the materials to be tested and shall pay transportation charges and costs of testing on any samples required to be submitted to the laboratory.
- (b) Where certified test reports are required to be furnished by the manufacturer, the Contractor shall furnish duplicate copies of the reports before the material will be approved for use.

3.53 - STAKING WORK

- (a) The Engineer will set control stakes for general layout and all necessary grade stakes for construction work. The protection and care of such stakes shall be the responsibility of the Contractor. The Contractor may, at the discretion of the Engineer, be required to pay the cost of replacing stakes which are lost or destroyed. The detail layout of structures and staking of individual items shall be done by the Contractor subject to verification by the Engineer as to compliance with the contract plans and specifications. In any case, the Contractor shall be responsible for the correctness and accuracy of the detail layout of finished structures.

- (b) Any personnel engaged in the surveying work on the project by the Contractor or his subcontractors, who is judged by the Engineer to be incompetent shall be removed from the work and replaced by competent personnel.

3.54 - FAILURE TO COMPLETE WORK ON TIME

- (a) In case the Contractor shall fail to fully perform and complete the work in conformity with the provisions and conditions of the contract within the specified time limit set forth in the Proposal Form or within such further time as, in accordance with the provisions of this agreement shall be fixed or allowed for such performance and completion, the Contractor shall and will pay to the City of Pueblo for each and every day of the additional time in excess of the contract time and any granted extensions thereof, the sum given in the following schedule which said sum per calendar day is agreed upon, fixed and determined by the parties hereto. The amounts shown are considered to be liquidated damages to reimburse the City for the additional costs caused by delayed completion and in no case constitute a penalty. The amounts set forth below may be reduced or supplemented for project specific considerations as provided for in Article 2 – Special Provisions.

ORIGINAL CONTRACT AMOUNT	AMOUNT OF LIQUIDATED DAMAGES PER DAY
Less than \$49,999	\$200.00
\$50,000 to \$99,999	\$250.00
\$100,000 to 249,999	\$300.00
\$250,000 to \$499,999	\$400.00
\$500,000 to \$999,999	\$500.00
\$1,000,000 and above	\$1,000.00 plus any additional amount specified in Article 2

3.55 - INSPECTION

- (a) The Engineer and his authorized representatives shall at all times have access to the work wherever it is in preparation or progress and the Contractor shall provide proper and safe facilities for such access and for inspection.
- (b) The Engineer shall have the right to reject materials and workmanship which are defective, or require their correction. Rejected workmanship shall be satisfactorily corrected and rejected materials shall be removed from the premises without charge to the City. If the Contractor does not correct such condemned work and remove rejected materials within a reasonable time fixed by written notice, the City may remove them and charge the expense to the Contractor.
- (c) Should it be considered necessary or advisable by the Engineer at any time before final acceptance of the entire work to make an examination of work already completed, by removing or tearing out same, the Contractor shall on request promptly furnish all necessary facilities, labor and materials. If such work is found to be defective in any material respect due to fault of the Contractor or his subcontractors he shall defray all the expenses of such examination and of satisfactory reconstruction. If, however, such work is found to meet the requirements of the contract, the actual cost of labor and material necessarily involved in the examination and replacement, plus fifteen (15) percent, will be allowed the Contractor.
- (d) All materials to be incorporated in the work, all labor performed, all tools, appliances, and methods used shall be subject to the inspection and approval or rejection of the Engineer.

- (e) If the Engineer shall point out to the Contractor, his foreman or agent any neglect or disregard of the contract provisions, such neglect or disregard shall be remedied and further defective work shall be at once discontinued.
- (f) The Contractor shall execute the work only in the presence of the Engineer or authorized inspectors, unless provision has been made for the work to proceed without complete engineering supervision or inspection. The presence of the Engineer or Inspector shall in no way relieve the Contractor of the responsibility of this contract, or be any warrant for the furnishing of bad material or poor workmanship.
- (g) The inspection and supervision of the work by the Engineer is intended to aid the Contractor in applying labor, materials and workmanship in compliance with the contract provisions. Such inspection and supervision, however, shall not operate to release the Contractor from any of his contract obligations.

3.6 - CONTRACTOR'S WORKING CONDITIONS

3.61 - SUPERINTENDENCE

- (a) The Contractor shall give his personal superintendence to the work or have at the site of the work at all times a competent foreman, superintendent, or other representative satisfactory to the Engineer and having authority to act for the Contractor. All directions given to him shall be as binding as if delivered to the Contractor. Such directions shall be confirmed upon written request to the Engineer by the Contractor or his superintendent.
- (b) Insofar as it is practicable and except in the event of discharge by the Contractor or in the event of proven incompetence, the individual who has been designated to represent the Contractor shall so act, and shall follow without delay instructions of the Engineer in the prosecution of the work in conformity with the contract.

3.62 - LABOR

- (a) The Contractor shall employ none but competent and skilled workmen and foremen in the conduct of work on this contract. The Contractor shall at all times enforce strict discipline and good order among his employees. The Engineer shall have the authority to order removal from the work of any Contractor's employee who refuses or neglects to observe any of the provisions of these plans or specifications, or who is incompetent, unfaithful, abusive, threatening, or disorderly in his conduct, and any such person shall not again be employed on this project without permission of the Engineer.
- (b) Colorado labor shall be employed to perform the work to the extent of not less than eighty percent (80%) of each type of class of labor in the several classifications of skilled and common labor employed on this project, as required and defined in Article 17 of Title 8 of C.R.S.; provided, however that this subsection (b) shall be suspended and of no effect to the extent prohibited or inconsistent with a requirement of federal law or regulation or the terms and conditions of any grant or cooperative agreement to which the City is a party and which concerns the Project.

3.63 - USE OF JOB SITE AND PRIVATE LAND

- (a) The Contractor shall confine his equipment, apparatus, the storage of materials and operations of his workmen to limits indicated by law, ordinances, permits or directions of the City and shall not encumber the premises with his materials.
- (b) The Contractor shall not load or permit any part of the structure to be loaded with a weight that will endanger its safety. The Contractor shall enforce the Engineer's instructions regarding signs, advertisements, fires and smoke.

- (c) The Contractor shall not use any vacant lot or private land as a plant site, depository for materials, or as a spoil site without the written authorization of the owner (or his agent) of the land, a copy of which authorization shall be filed with the City. The Contractor shall not interrupt, constrict, or alter established drainage ways on vacant lots or private land without first obtaining permission from the Engineer and the property owner.

3.64 - PROTECTION OF THE PUBLIC, WORKS AND PROPERTY

- (a) The Contractor shall provide and maintain all necessary watchmen, barricades, warning lights and warning signs and take all necessary precautions for the protection of the public. He shall continuously maintain adequate protection of all work from damage, and shall take all reasonable precautions to protect the City's property from injury or loss arising in connection with the contract. He shall make good any damage, injury, or loss to his work and to the property of the city, except such as may be due to errors in the contract documents, or caused by agents or employees of the city.
- (b) The Contractor shall continuously maintain adequate protection of all his work from damage and shall protect the City's and adjacent property from injury arising from or in connection with this contract.
- (c) The Contractor will be responsible for any and all damage to property, public or private, that may be caused by his operations in the performance of this contract, and the Contractor shall defend any suit that may be brought against himself or the City on account of damage inflicted by his operations, and shall pay any judgements awarded to cover such damage; provided, however, that if either party to this contract should suffer injury or damages in any manner because of any wrongful act or neglect of the other party or of anyone employed by him, then he shall be reimbursed by the other party for such damage. Notice of pending claim for such reimbursement shall be made in writing to the party responsible within a reasonable time of the first observance of such damage, and the claim shall be filed and adjusted prior to the time of final payment.

3.65 - ACCIDENT PREVENTION

Precaution shall be exercised at all times for the protection of persons (including employees) and property. The safety provisions of applicable local ordinances, State and Federal laws, and building and construction codes shall be observed. Machinery, equipment, and all hazards shall be guarded or eliminated in accordance with the safety provisions of the Manual of Accident Prevention in Construction, published by the Associated General Contractors of America, to the extent that such provisions are not in contravention of applicable law.

3.66 - INTERFERENCE WITH TRAFFIC

In executing the work on this project the Contractor shall not unnecessarily impede or interfere with traffic on public highways or streets. Any question as to what constitutes unnecessary interference with traffic or a hazard to traffic shall be determined by the Engineer and the Traffic Engineer of the City. The Contractor shall confer with and keep Police and Fire Departments of the City fully informed as to street or alleys which are to be closed to traffic for construction purposes. The Contractor shall be responsible for coordination of his work with all affected utilities.

3.67 - SANITARY CONVENIENCES

The Contractor shall provide and maintain at the site of the construction work at all times, suitable sanitary facilities for use of those employed on this contract without committing any public nuisance. Pit type toilets shall be of proper design and fly tight. All toilet facilities shall be subject to the approval of the Pueblo City-County Health Department.

3.68 - WORK IN BAD WEATHER

No construction work shall be done during stormy, freezing or inclement weather, except such as can be done satisfactorily, and in a manner to secure first class construction throughout, and then only subject to the permission of the Engineer.

3.69 – STATE-IMPOSED MANDATES PROHIBITING ILLEGAL ALIENS FROM PERFORMING WORK UNDER THIS CONTRACT

- (a) At or prior to the time for execution of this Contract, Contractor shall submit to the Purchasing Agent of the City its certification that it does not knowingly employ or contract with an illegal alien who will perform work under this Contract and that the Contractor will participate in either the “E-Verify Program” created in Public Law 208, 104th Congress, as amended and expanded in Public law 156, 108th Congress, as amended, that is administered by the United States Department of Homeland Security or the “Department Program” established pursuant to section 8-17.5-102(5)(c), C.R.S. that is administered by the Colorado Department of Labor and Employment in order to confirm the employment eligibility of all employees who are newly hired for employment to perform work under this Contract.
- (b) Contractor shall not:
 - (i) Knowingly employ or contract with an illegal alien to perform work under this Contract;
 - (ii) Enter into a contract with a subcontractor that fails to certify to Contractor that the subcontractor shall not knowingly employ or contract with an illegal alien to perform work under this Contract.
- (c) The following state-imposed requirements apply to this Contract:
 - (i) The Contractor shall have confirmed the employment eligibility of all employees who are newly hired for employment to perform work under this Contract through participation in either the E-Verify Program or Department Program.
 - (ii) The Contractor is prohibited from using either the E-Verify Program or Department Program procedures to undertake pre-employment screening of job applicants while this Contract is being performed.
 - (iii) If the Contractor obtains actual knowledge that a subcontractor performing work under this contract knowingly employs or contracts with an illegal alien to perform work under this Contract, the Contractor shall be required to:
 - A. Notify the subcontractor and the Purchasing Agent of the City within three (3) days that the Contractor has actual knowledge that the subcontractor is employing or contracting with an illegal alien; and
 - B. Terminate the subcontract with the subcontractor if within three (3) days of receiving the notice required pursuant to subparagraph (c)(iii)A. above, the subcontractor does not stop employing or contracting with the illegal alien; except that the Contractor shall not terminate the contract with the subcontractor if, during such three (3) days, the subcontractor provides information to establish that the subcontractor has not knowingly employed or contracted with an illegal alien.
 - (iv) The Contractor is required to comply with any reasonable request by the Colorado Department of Labor and Employment (hereinafter referred to as “CDLE”) made in the course of an investigation that CDLE is undertaking pursuant to its authority under §8-17.5-102(5), C.R.S.

- (d) Violation of this Section by the Contractor shall constitute a breach of contract and grounds for termination. In the event of such termination, the Contractor shall be liable for City's actual and consequential damages.
- (e) Nothing in this Section shall be construed as requiring the Contractor to violate any terms of participation in the E-Verify Program.

3.7 - CLEANUP AND FINAL COMPLETION

3.71 - CLEANING UP AND FINAL INSPECTION

- (a) The Contractor shall at all times keep the site of the work free from accumulations of waste materials or rubbish caused by his employees or work and at the completion of the work he shall remove all his rubbish from and about the work and all his tools, equipment, scaffolding and surplus materials and shall leave his work clean and ready to use. In case of dispute, the City may remove the rubbish and surplus materials and charge the cost to the Contractor. This requirement shall not apply to property used for permanent disposal of rubbish or waste materials in accordance with permission of such disposal granted to the Contractor by the City therefor.
- (b) All sewers, conduits, pipes and appurtenances and all tanks, pump wells, chambers, buildings and other structures shall be kept clean during construction; and as the work or any part thereof approaches completion, the Contractor shall systematically and thoroughly clean and make any needed repairs to them. He shall furnish at his own expense, suitable tools and labor for removing all water and cleaning out all dirt, mortar and foreign substances. Any undue leakage of water into the structures such as to make the work, in the opinion of the Engineer, fall short of first class work, shall be promptly corrected by the Contractor at his own expense. Cleaning and repairs shall be arranged, so far as practical, to be completed upon finishing the construction work. Notice to begin the final cleaning, and repairing, if such is needed, will be given by the Engineer, who at the same time will make his final inspection of the work. The Engineer will not approve the final estimate of any portion of the work until after the final inspection is made and the work found satisfactory.

3.72 - CUTTING AND PATCHING

- (a) The Contractor shall do all cutting, fitting or patching of his work that may be required to make its several parts fit together or to receive the work of other contractors shown upon, or reasonably implied by, the plans and specifications of the completed project.
- (b) Any cost caused by defective or ill-timed work shall be borne by the party responsible therefor.
- (c) The Contractor shall not endanger any work by cutting, digging or otherwise, and shall not cut or alter the work of any other contractor without the consent of the Engineer.

3.73 - FINAL TESTS

After completion of the work the Contractor shall make any and all tests required by the specifications or by municipal or state regulations, and where so provided in said regulations shall furnish the City with certificates of inspection by the municipal or state regulatory bodies. The Contractor shall also make all tests required by the National Board of Fire Underwriters for the purpose of determining insurance rates or other protection of City or the Public.

3.74 - CORRECTION OF WORK AFTER FINAL PAYMENT

Neither the final payment nor any provision in the contract documents shall relieve the Contractor of the responsibility for negligence or faulty materials or workmanship, whether latent or patent, within the extent and period provided by law.

3.75 - TERMINATION FOR CAUSE

- (a) In the event the Contractor shall be adjudged a bankrupt, or shall make a general assignment for the benefit of his creditors, or a receiver shall be appointed on account of his insolvency, or if he shall persistently or repeatedly refuse or should fail to supply enough properly skilled workmen or proper materials, or shall fail to maintain required insurance, or shall fail to make prompt payment to subcontractors or for material or labor, or persistently disregard laws, or ordinances or the instructions of the Engineer, or otherwise be guilty of a substantial violation of any provisions of the contract, the City may serve written notice upon the Contractor and the Surety of its intention to terminate the contract, and unless within ten days after the serving of such notice upon the Contractor, such violation shall cease and satisfactory arrangement for correction be made, the contract shall, upon the expiration of said ten days cease and terminate. In the event of any such termination, the City shall immediately serve notice thereof upon the Surety and the Contractor, and the Surety shall have the right to take over and perform the contract; provided, however, that if the Surety does not commence performance thereof within thirty days from the date of the mailing to such Surety of a notice of termination, the City may take over the work and prosecute the same to completion for the account and at the expense of the Contractor, and the Contractor and his Surety shall be liable to the City for any excess cost thereby occasioned the City. If the unpaid balance of the contract price shall exceed the expense of finishing the work, including compensation for additional managerial and administrative services, such excess shall be paid to the Contractor. The expense incurred by the City herein provided, and the damages incurred through the Contractor's default, shall be determined by the Engineer whose decision thereon shall be final and conclusive.
- (b) Where the contract has been terminated by the City, said termination shall not affect or terminate any of the rights of the City as against the Contractor and his Surety then existing or which may thereafter accrue because of such default. Any retention by the City of the moneys due the Contractor under the terms of the contract shall not release the Contractor or his Surety from liability for his default.

3.76 - FINAL ACCEPTANCE OF THE WORK

- (a) The contract shall be deemed as having been finally accepted by the City upon authorization of final payment issued by the Engineer.
- (b) Use of part of the improvement by the City before completion of the entire project is not to be construed by the Contractor as an acceptance by the City of that part so used.

3.77 - COMMENCEMENT AND COMPLETION OF WORK

- (a) The Contractor shall commence work within three (3) calendar days of the date of execution of the contract (unless otherwise stated in the Proposal Form), and complete the contract within the number of calendar days from the date of the Notice of Award as stated in the Proposal Form.
- (b) The dates fixed for commencement and completion of the work shall be extended for a period equivalent to the time lost because of severe and unusual weather, non-delivery of properly ordered materials, or other cause over which the Contractor is not responsible. The Contractor shall document reasons for requesting any such extensions in a letter to the Engineer, and the Engineer shall fix the period of extensions, if any, his decision being binding upon both parties. If satisfactory execution and completion of the Contract shall require work or materials in substantially greater amounts or quantities than those set forth in the contract, then the contract time shall automatically be increased in the same proportions as the cost of the additional work bears to the original contracted for. No allowance will be made for delays or suspension of the prosecution of the work due to the fault of the Contractor or his subcontractors or suppliers.

3.78 - LIQUIDATED DAMAGES

- (a) In the event that the contract has not been completed within the specified time (including any approved time extensions as described in Paragraph 3.77) the amounts set forth in Paragraph 3.54 will be deducted from the amount paid the Contractor, as liquidated damages.
- (b) No other liquidated damages will be charged for noncompletion within the specified time unless specifically stated in the Special Provisions.

3.79 – WAIVER OF STATUTORY LIMITATIONS AND CONDITIONS

The rights and remedies available to City under the Contract Documents, including the City's right to recover liquidated damages, are in addition to, and not limited by, any rights, remedies and limitations provided under law. By bidding upon and entering into this Contract, the Contractor specifically waives any and all of the provisions of Chapter 8 of Article 20 of Title 13, Colorado Revised Statutes including, without limitations, those relating to defects in the work under the Contract, limitation of damages and notice of claim process.

3.8 - MEASUREMENT AND PAYMENT

3.81 - MEASUREMENT OF WORK

- (a) If the proposal for the work under this contract is on a unit price basis, the actual number of units of each item of work to be constructed may be more or less than the corresponding number given in the proposal sheet or plans, but no variation will be made in the contract unit prices on the account. No extra measurement of any kind will be allowed in measuring the units of work under this contract, but the actual units of work shall be considered and all lengths will be measured on the centerline of the work, whether straight or curved. The Contractor will be paid the contract price for each unit of work done, which price will include the cost of all work described in the unit specifications.
- (b) The method of measurement shall be as described in that part of the specifications covering the particular units of work or materials furnished.

3.82 - PAYMENTS

- (a) The Contractor shall prepare and submit to the Engineer a detailed estimate of the work performed during the preceding calendar month, and at the time of completion of the work under the Contract, the Contractor shall prepare and submit to the Engineer a detailed estimate of the work performed since the last calendar month for which he has submitted as estimate, such estimates to be used after approval as a basis for periodical and final payments. When approved, one copy of such estimate will be returned to the Contractor.
- (b) Not later than the 21st day after approval of periodic estimate and receipt of all other required payment submittals as detailed in Article 2 – Special Provisions, the City will make partial payment to the Contractor on the basis of a duly certified and approved estimate of the work performed by the Contractor during the preceding calendar month. The City at its discretion may include in such monthly estimates, payment for materials that will eventually be incorporated in the project, provided that such material is suitably stored on the site of the project at the time of submission of the estimate for payment. Payment for materials on hand but not in place, unless otherwise provided in the Special Provisions, shall be based on the Contractor's cost of such materials stored at the job site, as evidenced by material bills and freight bills. No additional allowances will be made for handling or drayage by the Contractor's forces, nor overhead, insurance, profit or other incidental costs. The Contractor shall, if required by the Engineer, present certified copies of receipted bills and freight bills for such materials. Such material when so paid for by the City shall become the property of the City, and in case of default on the part of the Contractor, the City may use or cause

to be used by others these materials in construction of the project.

- (c) The City will retain a percentage of the amount of each periodical estimate until the final completion and acceptance by the City of all work included in this contract. Unless otherwise specified in Article 2 - Special Provisions, the percentage retained shall be 10%, except that the retainage on the periodic estimate considered to be the final estimate may be reduced by the Engineer to an amount deemed by him sufficient to complete minor work, effect minor repairs or perform minor cleanup, provided, however, that in no event may retainage be reduced to less than five percent (5%) of the original contract amount. Nothing in this section shall be construed to limit or restrict the City's right to withhold additional amounts pursuant to Section 3.84 of these General Provisions.
- (d) Final payment of the percentage retained by the City on the monthly periodical estimates and on the final estimate will be paid to the Contractor not more than thirty (30) days after final acceptance by the City of the work on this contract and publication of the statutorily required Notice of Final Settlement.

3.83 – WAIVER OF STATUTORY RETENTION LIMITS

Contractor acknowledges that the City will retain up to 10% of each periodical estimate as set forth in paragraph 3.82(c) above. By bidding upon and entering into this Contract, the Contractor knowingly and voluntarily waives any and all right or entitlement it may have for a lesser percentage to be retained from payments pursuant to Section 24-91-103(1)(a), Colorado Revised Statutes.

3.84 - CITY'S RIGHT TO WITHHOLD CERTAIN AMOUNTS AND MAKE APPLICATIONS THEREOF

- (a) The city may withhold, in addition to retained percentages, from any payment to the Contractor, such an amount or amounts as may be necessary to cover:
 - (1) Claims filed with the City for labor or materials furnished in connection with the work.
 - (2) Correction of defective work not promptly remedied by Contractor.
 - (3) Amounts owed to his suppliers, subcontractors and workers.
 - (4) An amount sufficient to ensure completion if a reasonable basis exists to believe that the contract cannot be completed for the balance then unpaid.
 - (5) Damage caused by Contractor to another contractor or public or private property.
 - (6) Excess cost of field engineering and inspection.
 - (7) City Sales and Use Tax to which the City is entitled.
 - (8) Liquidated damages.
- (c) The City may disburse and shall have the right to act as agent for the Contractor in disbursing such funds as have been withheld pursuant to this paragraph to the party or parties who are entitled to payment therefrom. The City will render to the Contractor a proper accounting of all such funds disbursed in behalf of the Contractor.
- (d) Neither the final payment nor any part of the retained percentage shall become due until 30 days after publication of Notice of Final Settlement on the Project and after the Contractor shall have delivered to the City a complete release for himself and all materialmen and subcontractors of all claims or liens arising out of the contract, or receipt in full in lieu thereof. The Contractor may, however, furnish a bond, satisfactory to the City Attorney, to indemnify the City against any claim

or lien. If any claim or lien remains unsatisfied after all payments are made, the Contractor and his Surety shall be liable to the City for all moneys that the latter may be compelled to pay in discharging such claim or lien, including all costs and reasonable attorney's fees.

3.85 - UNCORRECTED WORK

All work performed incorrectly or of incorrect materials shall be replaced before final payment. Final payment will be withheld until such corrections have been accomplished.

3.86 - CHANGE ORDERS

- (a) The Engineer, in writing, may direct that changes be made in the work to be performed or the materials to be furnished pursuant to the provisions of this contract. A written change order which causes any increase in the original Contract Price shall include a statement that lawful appropriations have been made sufficient to cover the costs of the change order.
- (b) Adjustments, if any, in the amounts to be paid to the Contractor by reason of any such change shall be determined by one or more of the following methods:
 - (1) By unit prices contained in the Contractor's original bid and incorporated in this construction contract;
 - (2) By a supplemental schedule of prices contained in the Contractor's original bid and incorporated in this construction contract; or by schedule of unit prices approved by Engineer pursuant to Section 3.126 of this Article;
 - (3) By an acceptable lump sum proposal from the Contractor;
 - (4) On a cost-plus-limited basis not to exceed a specified limit (defined as the cost of labor, materials and insurance plus a specified percentage of the cost of such labor, materials, and insurance; provided the specified percentage does not exceed fifteen (15) percent of the aggregate cost of such labor, materials, and insurance and shall in no event exceed a specified limit). Provided, however, that the aggregate payment of all work shall in no case exceed the estimate of the Engineer.
- (c) No claims for an addition to the contract sum shall be valid unless authorized in writing as aforesaid.
- (d) In cases where a lump sum proposal is submitted by the Contractor in excess of \$500.00 (Five Hundred Dollars) and the Engineer considers the proposal so submitted is excessive or unreasonable for the changes or added work contemplated, the City reserves the right to request a proposal for the same changed items from other contractors. If a proposal for such added work is obtained from other contractors at a lesser amount, the City reserves the right to make an award for such work to another contractor unless the Contractor on this contract agrees to do the added or changed work for the price named by the other contractor.
- (e) It shall be expressly understood and hereby agreed to by the Contractor that no claim for extra work will be recognized by the City unless claim for such added work has been filed by the Contractor within ten (10) days after such alleged extra work was performed.

3.87 SIGNIFICANT CHANGES IN CHARACTER OF THE WORK

- (a) The Engineer reserves the right to make, in writing, at any time during the work, such changes in quantities and such alterations in the work as are necessary to satisfactorily complete the project. Such changes in quantities and alterations shall not invalidate the Contract nor release the surety, and the Contractor agrees to perform the work as altered.

- (b) If the alterations or changes in quantities significantly change the character of the work under the Contract, whether such alterations or changes are in themselves significant changes to the character of the work, or by affecting other work cause such other work to become significantly different in character, an adjustment, excluding loss of anticipated profit, will be made to the Contract Price. The basis for adjustment shall be agreed upon prior to the performance of the work. If a basis cannot be agreed upon for any reason what so ever, then an adjustment will be made either for or against the Contractor in such amount as the Engineer may determine to be fair and equitable.
- (c) If the alterations or changes in quantities do not significantly change the character of the work to be performed under the Contract, the altered work will be paid for as provided elsewhere in the Contract.
- (d) As used in this section, the term "significant change" shall be construed to apply only to the following circumstances:
 - (1) When the character of the work as altered differs substantially and materially in kind or nature from that involved or included in the original proposed construction, or
 - (2) When a major item of work is increased in excess of 125 percent or decreased below 75 percent of the original contract quantity. Any allowance for an increase in quantity shall apply only to that portion in excess of 125 percent of original contract item quantity, or in case of a decrease below 75 percent, to the actual amount of work performed. A major item is defined to be any item having an original contract value in excess of 10 percent of the original contract amount.

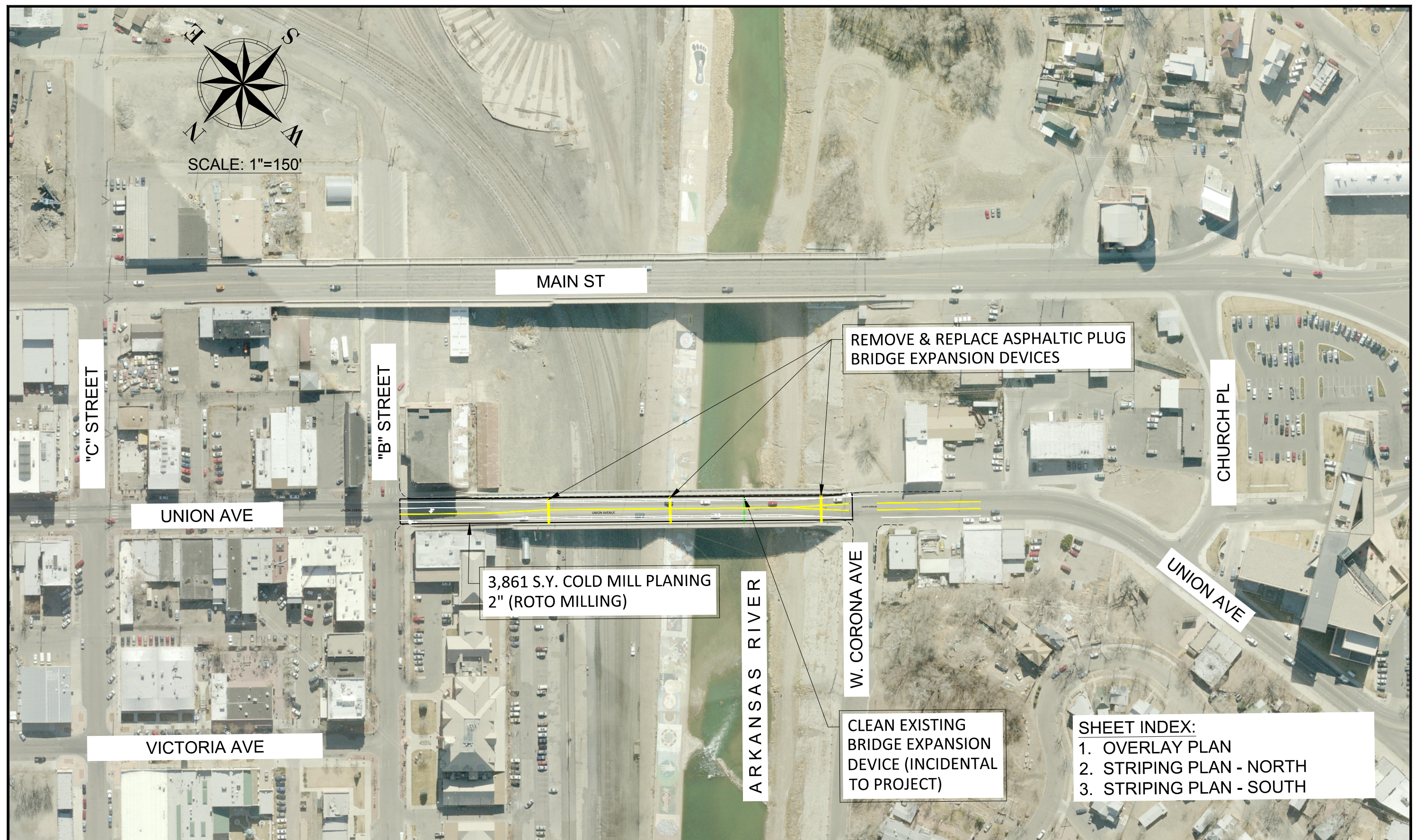
3.9 - CONTRACTOR'S RIGHT TO TERMINATE

3.91 - CONTRACTOR'S RIGHT TO STOP WORK OR TERMINATE CONTRACT

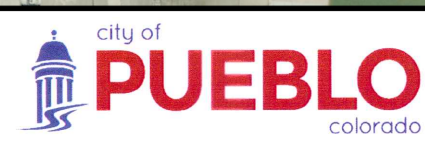
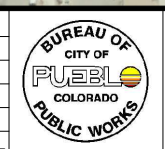
If the work should be stopped under an order of any court, or other public authority, for a period of three (3) months, through no act or fault of the Contractor or of anyone employed by him, or if the Engineer should fail without cause to issue any estimate within thirty (30) days after it is due, then the Contractor may, upon ten (10) days written notice to the City of Pueblo, stop work or terminate the contract and recover from the City payment for all work executed plus any loss sustained upon any plant or material plus reasonable profit and damages.



SCALE: 1"=150'



NO.	REVISIONS	BY	DATE	APPROVAL



PUBLIC WORKS DEPARTMENT
ENGINEERING DIVISION
211 EAST "D" STREET PUEBLO, CO 81003
(719) 553-2295 PHONE
(719) 553-2294 FAX

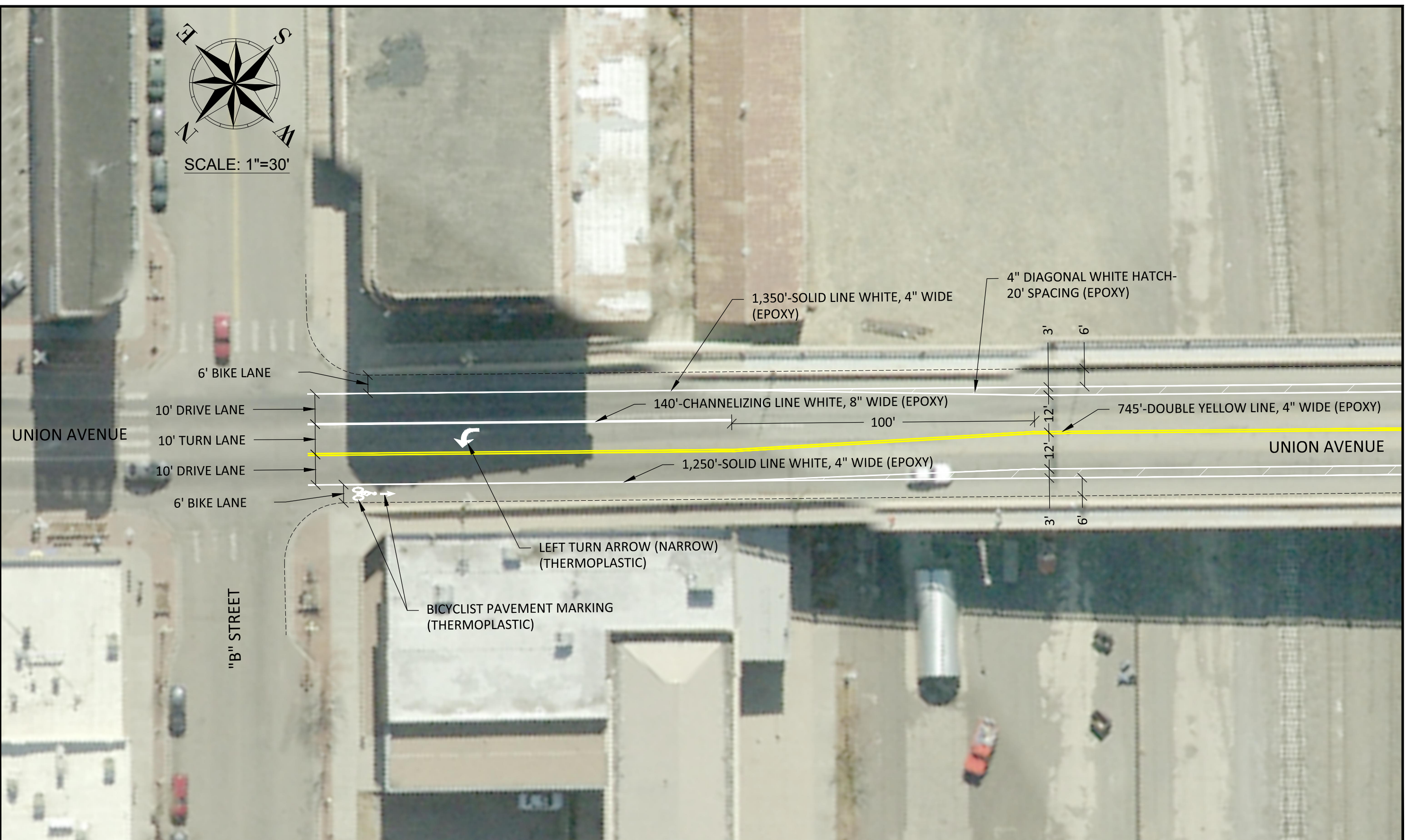
SCALE (H): 1"=150'
SCALE (V): N/A
DRAWN BY: JM
DESIGNED BY: JM
CHECKED BY: SV
DATE: 03/13/17

PROJECT NUMBER 17-038 (HU1502)
UNION AVENUE BRIDGE RESURFACING

DRAWING NO.
SHEET NO.
1



SCALE: 1"=30'



NO.	REVISIONS	BY	DATE	APPROVAL



PUBLIC WORKS DEPARTMENT
ENGINEERING DIVISION
211 EAST "D" STREET PUEBLO, CO 81003
(719) 553-2295 PHONE
(719) 553-2294 FAX

SCALE (H): 1"=30'
SCALE (V): N/A
DRAWN BY: JM
DESIGNED BY: JM
CHECKED BY: SV
DATE: 03/13/17

PROJECT NUMBER 17-038 (HU1502)
UNION AVENUE BRIDGE RESURFACING

DRAWING NO.
SHEET NO.
2



SCALE: 1"=20'

4" DIAGONAL WHITE HATCH-
20' SPACING (EPOXY)

1,350'-SOLID LINE WHITE, 4" WIDE (EPOXY)

EXISTING STRIPING
(TO REMAIN)

BICYCLIST PAVEMENT
MARKING (THERMOPLASTIC)

6' BIKE LANE

12' DRIVE LANE

UNION AVENUE

12' DRIVE LANE

745'-DOUBLE YELLOW LINE, 4" WIDE (EPOXY)

3'
6'

12'

12'

100'

100'

1,300'-SOLID LINE WHITE, 4" WIDE (EPOXY)

3'
6'

W. CORONA AVENUE

NO.	REVISIONS	BY	DATE	APPROVAL



PUBLIC WORKS DEPARTMENT
ENGINEERING DIVISION
211 EAST "D" STREET PUEBLO, CO 81003
(719) 553-2295 PHONE
(719) 553-2294 FAX

SCALE (H): 1"=20'
SCALE (V): N/A
DRAWN BY: JM
DESIGNED BY: JM
CHECKED BY: SV
DATE: 03/13/17

PROJECT NUMBER 17-038 (HU1502)
MAIN STREET BRIDGE RESURFACING

DRAWING NO.

SHEET NO.

3