

CONSTRUCTION CONTRACT AGREEMENT

THIS CONSTRUCTION CONTRACT AGREEMENT (“Agreement”) is made and entered into effective this __ day of _____, 2024 (“Effective Date”), by and between the CITY OF COMMERCE CITY, a Colorado home rule municipality whose address is 7887 East 60th Avenue, Commerce City, Colorado 80022 (“City”), and A-1 Chipseal Company, a Colorado Corporation whose principal business address is 2505 E, 74th Avenue, Denver, Colorado, 80229 (“Contractor”).

WHEREAS, the City desires to retain the services of Contractor, and Contractor desires to provide services to the City.

NOW, THEREFORE, in consideration of the mutual covenants and agreements contained in this Agreement, the sufficiency of which is hereby acknowledged, the parties agree as follows:

I. Project.

A. Project. Contractor shall commence and complete the **2024 Slurry Seal, Project 2024-04-PW** (“Project”), in accordance with the Contract Documents, and shall execute the entire scope of Work set forth in the Contract Documents, as defined below. Contractor shall, at its own expense, do all Work in a professional and workmanlike manner and furnish all labor, materials, tools, supplies, machinery, utilities, permits, licenses, and other equipment that may be necessary for the completion of the Project, as outlined in the Contract Documents.

B. Commencement and Completion of the Project. Contractor understands and agrees that all Work required under this Contract shall be fully completed, as set forth in the Contract Documents, within **120** calendar days of the date of the Notice to Proceed. Contractor acknowledges and understands that it is an essential term of this Contract that Contractor maintains a rate of progress in the Work that will result in completion of the Project in accordance with the Contract Documents, and to that end, Contractor agrees to proceed with all due diligence to complete the Work in a timely manner in accordance with the Contract Document.

C. Term. The term of this Agreement will be for the Effective Date for a minimum term of one (1) year, renewable for two (2) additional one (1) year periods, upon mutual consent of the City and Contractor. (“Term”), unless the Term is extended by validly executed written amendment.

D. Contract Documents: Priority. The term “Contract Documents” includes the following, each and all of which are a part thereof and have the same force and effect as if spread at length herein. The following documents are attached and incorporated into this Agreement by reference. In resolving inconsistencies among two or more of the Contract Documents, precedence will be given in the same order as enumerated here. Additional details and more stringent requirements contained in a lower priority document will control unless the requirements of the lower priority document present an actual conflict with the requirements of the higher-level document (i.e., it is not possible to comply with both requirements). Unless specifically stated, lower priority documents affected by Addenda shall not take priority through the Addenda.

1. Change Orders (by date);
2. Notice to Proceed;
3. Construction Contract Agreement;
4. Special Conditions of the Contract;
5. General Conditions;
6. Notice of Intent to Award;
7. Request for Bids;

8. Instructions for Bidders;
9. Notice of Substantial Completion;
10. Notice of Construction Completion;
11. Submitted Bid Forms;
12. Performance and Labor and Material Payment Bonds; and
13. Insurance Certificates and Endorsements.

II. COMPENSATION.

A. Contract Price. As compensation for performance of the Work described in the Contract Documents and any other obligations under this Agreement, the City will pay Contractor, for work actually performed, a sum not to exceed **Four Hundred Forty-Eight Thousand Seven Hundred Twenty Five Dollars and Ninety-Seven Cents (\$448,725.97)**, subject to Change Orders executed in accordance with the Contract Documents. The City shall make payment(s) to Contractor in the manner and at such times as set forth in the General Conditions of such amounts as are required by the Contract Documents.

B. IRS Form W-9. If not on file with the City, Contractor will provide to the City a current, completed Internal Revenue Service Form W-9 with or before Contractor's first invoice. Failure to submit a W-9 may result in delay or cancellation of payment under this Agreement.

III. NOTICES.

Except for routine communications and as provided in the General Conditions, written notices required under this Agreement and all other correspondence between the parties will be directed to the following and will be deemed received when hand-delivered or three (3) days after being sent by certified mail, return receipt requested, unless the parties agree to electronic delivery of correspondence:

If to the City:

Shawn Poe, City Engineer
 Public Works
 City of Commerce City
 8602 Rosemary Street
 Commerce City, CO 80022

If to Contractor:

Contractor Contact/Title
 Contractor Name
 Contractor Address
 Contractor City, ST ZIP
 Contractor E-mail

IV. GENERAL PROVISIONS.

A. Authority. The parties represent and warrant that they have taken all actions necessary to legally authorize the undersigned signatories to execute this Agreement for the parties and to bind the parties to its terms. The signatories represent and warrant that each has legal authority to execute this Agreement for the party he or she represents and to bind that party to its terms.

B. Counterparts; Execution. This Agreement may be executed in any number of counterparts, each deemed to be an original, and, taken together will constitute one and the same instrument. Signature pages may be executed via "wet" signature or electronic mark and the executed signature pages may be delivered using pdf or similar file type transmitted via electronic mail, cloud based server, e-signature technology or other similar electronic means.

C. Entire Agreement. This Agreement contains the entire agreement of the parties relating to the subject matter of this Agreement. All prior and contemporaneous agreements and understandings, whether oral or written, are superseded by this Agreement and are without effect to vary or alter any terms or conditions of this Agreement.

IN WITNESS WHEREOF, the parties have executed this Agreement as of the Effective Date.

ATTACHMENT B.

PAYMENT BOND

_____, as principal, hereinafter called Contractor, and, _____ as Surety, with general offices in _____, a corporation organized under the laws of the State of _____, and authorized to transact business in the State of Colorado, are hereby bound unto the City of Commerce City, Colorado, as obligee, hereinafter called the City, in the penal sum of _____ dollars (\$ _____) with interest thereon at the rate of eight percent per annum on all payments becoming due in accordance with the below designated Contract from the time such payment shall become due until such payment shall be made, in United States currency, for the payment of which sum Contractor and Surety bind themselves, their heirs, executors, administrators, successors, and assigns, jointly and severally.

WHEREAS, Contractor has entered into a written Contract with the City dated _____, 20____, for _____ in accordance with Contract Documents contained in the Contract, a copy of which Contract is attached hereto and made a part hereof and is hereinafter referred to as the Contract;

NOW, THEREFORE, the conditions of this Payment Bond are such that, if Contractor shall at all times promptly make payments of all amounts lawfully due to all persons supplying or furnishing it or its Subcontractors with labor or materials, rental machinery, tools or equipment used or performed in the prosecution of the work provided for in the Contract and shall indemnify and save harmless the City to the extent of any payments in connection with the performance of such Contracts that the City may be required to make under law, then this obligation shall be null and void; otherwise the obligation shall remain in full force and effect.

In addition to the other conditions hereof, this Bond shall include all provisions set forth in Section 38-26-105, C.R.S.

THE UNDERSIGNED SURETY for value received hereby agrees that no extension of time, change in, addition to, or other modification of the terms of the Contract or work to be performed thereunder or of the Specifications of the Contract Documents shall in any way affect its obligation on this Bond, and the Surety does hereby waive notice of any such extension of time, change, addition, or modifications.

Any action against the Surety on this Bond shall be brought no later than two years from the date fixed for final settlement of the Contract.

Signed and sealed this _____ day of _____, 2024.

Contractor: _____ **Surety:** _____

By: _____ **By:** _____

Its: _____ **Its:** _____

Address for Notices: _____

Attest: _____

ATTACHMENT C.
PERFORMANCE BOND

_____, as principal, hereinafter called Contractor, and _____, as Surety, with general offices in _____, a corporation organized under the laws of the State of _____, and authorized to transact business in the State of Colorado, are hereby bound unto the City of Commerce City, Colorado, as obligee, hereinafter called the City, in the penal sum of _____ Dollars (\$ _____), in United States currency, for the payment of which sum Contractor and Surety bind themselves, their heirs, executors, administrators, successors, and assigns, jointly and severally.

WHEREAS, Contractor has entered into a written contract with the City dated __, 20__, for _____ in accordance with Contract Documents comprising the Contract, a copy of which Contract is attached hereto and made a part hereof and is hereinafter referred to as the Contract;

NOW, THEREFORE, the conditions of this Performance Bond are such that, if Contractor shall satisfactorily perform the Contract, the obligations hereunder shall be null and void; otherwise, the obligations shall remain in full force and effect. Whenever Contractor shall be declared by the City to be in default under the Contract, the City having performed the City's obligations thereunder, the Surety may promptly remedy the default or shall promptly

Complete the Contract in accordance with its terms and conditions, or

Obtain a bid or bids for completing the Contract in accordance with its terms and conditions, and upon determination by Surety of the lowest responsible bidder, or, if the City elects, upon determination by the City and the Surety jointly of the lowest responsible bidder, arrange for a contract between such bidder and the City, and make available as Work progresses (even though there should be a default or a succession of defaults under the contracts of completion arranged under the paragraph) sufficient funds to pay the cost of completion less the balance of the contract price; but not exceeding, including other costs and damages for which the Surety may be liable hereunder, the amount set forth in the first paragraph hereof. The term "balance of the contract price," as used in this paragraph, shall mean the total amount payable by the City to Contractor under the Contract and any amendments thereto, less the amount properly paid by the City to Contractor.

In addition, if Contractor or its Subcontractor shall fail to duly pay for any labor, materials, team hire, sustenance, provisions, provender or other supplies used or consumed by such Contractor or its Subcontractor in performance of the Contract or shall fail to duly pay any person who supplies rental machinery tools or equipment all amounts due as the result of the use of such machinery tools or equipment in the prosecution of the work, then the Surety shall pay the same in an amount not exceeding the sum specified in the Bond together with interest at a rate of eight percent per annum.

In addition to the other conditions hereof, this Bond shall include all provisions set forth in Section 38-26-106, C.R.S.

THE UNDERSIGNED SURETY for value received hereby agrees that no extension of time or change in, addition to or other modification of the terms of the Contract or work to be performed

thereunder or of the Drawings, Plans/Specifications or any other Contract Document shall in any way affect its obligation on this bond, and the Surety does hereby waive notice of any such extension of time, change, addition, or modifications.

Any action against the Surety on this Bond shall be brought no later than two years from the date fixed for final settlement of the Contract.

Signed and sealed this _____ day of _____, 2024.

Contractor: _____

Surety: _____

By: _____

By: _____

Its: _____

Its: _____

Address for Notices: _____

Attest: _____

ATTACHMENT D.



Commerce CITY

7887 East 60th Avenue
Commerce City, Colorado 80022
Phone (303) 289-3627
Fax (303) 289-3661
www.c3gov.com

EQUIPMENT DECLARATION

Company: _____

Date: _____

Address: _____

Job Address: _____

State and Zip: _____

Note: Construction equipment that was not otherwise subjected to the Commerce City sales or use tax, and which is located within the boundaries of the City of Commerce City for a period of thirty (30) consecutive days or less, shall be subjected to the use tax of Commerce City on a prorated basis if the equipment is declared in advance. **If the equipment is not declared in advance or is located within the City for over thirty (30) consecutive days, the amount of tax due will be calculated on 100% of the original purchase price.**

The tax on Declared Equipment shall be calculated using the following method: **The original purchase price of the equipment shall be multiplied by a fraction, the numerator of which is one (1) and the denominator which is twelve (12); and the result shall be multiplied by four and one-half percent (4.5%) to determine the amount of Use Tax payable to the City.** (Example: thirty (30) days or less = 1/12 x purchase price of the equipment x 4.5%)

The taxpayer must comply with the procedures described in Section 29-2-109(4) of the Colorado Revised Statutes by completing this form and remitting the tax due to the Finance Department of the City of Commerce City. **If the taxpayer does not file this form for each piece of equipment on or before the day the equipment is moved into the city, the monthly proration for reporting the tax as described above shall be deemed waived by the taxpayer and the full purchase price of the equipment is subject to tax.**

For each piece of equipment declared a copy of the original purchase invoice/contract and/or related registration showing date of purchase and purchase price must be submitted.

A separate declaration form (this page) must be used for each individual piece of equipment. Calculation of tax owed can be summarized on the subsequent summary page.

Construction Equipment Declared:

Description of Equipment: _____

VIN Number: _____

Purchase price of above equipment: _____; Date purchased: _____

Date equipment will enter the City: _____

Date equipment will be removed from the City: _____



CITY OF COMMERCE CITY EQUIPMENT DECLARATION CALCULATION OF TAX DUE

Company: _____
 Address: _____
 State and Zip: _____

Date: _____
 Job Address: _____

Construction Equipment Declared:

	Purchase Date	VIN Number	Description	Original Purchase Price	Tax Rate 4.5 %		Number of Months of Planned Use	Tax Due
1.					x .045	x	/12 =	
2.					x .045	x	/12 =	
3.					x .045	x	/12 =	
4.					x .045	x	/12 =	
5.					x .045	x	/12 =	
6.					x .045	x	/12 =	
7.					x .045	x	/12 =	
8.					x .045	x	/12 =	
9.					x .045	x	/12 =	
10.					x .045	x	/12 =	

Total = _____

CITY OF COMMERCE CITY

GENERAL CONDITIONS

ARTICLE 1 DEFINITIONS, ABBREVIATIONS & REFERENCES

1.1. Definitions.

Whenever used in the Contract Documents, the following terms shall have the following meanings, applicable to both the singular and plural, in addition to words otherwise defined in the Contract Documents:

- 1.1.1. **Addenda:** Written changes to the Bidding Documents issued before the opening of Bids that clarify, correct, or change the Contract or change the date set for the Opening of Bids.
- 1.1.2. **Bonds:** Bid Bonds, Performance Bonds, and Payment Bonds, any warranty bond, or other instruments of security furnished by the Contractor and its Surety according to the Contract.
- 1.1.3. **Change Order:** A written modification of the Contract, issued after award to the Contractor, authorizing an addition, deletion, or revision in the Work within the general scope of the Contract or authorizing an adjustment in the Contract Price or Contract Time mutually agreed upon between the City and the Contractor.
- 1.1.4. **City or Owner:** The City of Commerce City, Colorado. Any reference to the approval, decision, or discretion of the City, whether express or implied, is a reference to the approval, decision, or discretion of the City Manager, or to his or her designee unless otherwise stated or required by law.
- 1.1.5. **Completion Date:** The date the Contract specifies the Work is to be completed.
- 1.1.6. **Construction Schedule:** The schedule of Work approved by the City in accordance with the Contract Documents.
- 1.1.7. **Contract:** The construction contract for the completion of the Work consisting of the Construction Contract Agreement and all other Contract Documents.
- 1.1.8. **Contract Documents:** All the documents expressly incorporated into the Contract by and including the Construction Contract Agreement, including without limitation all Addenda, Bid Forms, Change Orders, Plans/Drawings, General Conditions, Request for Bids (including all attachments), insurance certificates, Notice of Intent to Award, Notice of Final Acceptance, Notice to Proceed, Notice of Substantial Completion, any Performance Bonds, any Payment Bonds, Special Conditions, accepted Shop Drawings, and Specifications.
- 1.1.9. **Contract Price:** The total monies payable to the Contractor under the terms and conditions of the Contract.
- 1.1.10. **Contract Time:** The number of days provided in the Contract for the completion of the Project from the date of the Notice to Proceed through and including the date of Final Acceptance. The Contract Documents may require completion on or before a certain specified date.

- 1.1.11. **Contractor:** The person or entity identified in the Construction Contract Agreement contracting with the City to perform the Work required by the Contract.
- 1.1.12. **Drawings or Plans:** The part of the Contract prepared or approved by the Project Manager showing the characteristics and scope of the Work to be performed.
- 1.1.13. **Date of Contract:** The execution date in the Agreement for a Construction Contract unless otherwise specified.
- 1.1.14. **Day or day:** A calendar day of twenty-four hours each from midnight to midnight, unless otherwise specified.
- 1.1.15. **Field Order:** A written order issued by the Project Manager to the Contractor during construction that directs the Contractor to commence a change in the Work before complete agreement on or execution of a Change Order.
- 1.1.16. **Final Acceptance:** The City's final acceptance of the Work completed according to the Contract requirements with all parts of the Work in good condition and in working order, including completion of all punch list items, cleanup work, and delivery of all required guarantees, warranties, licenses, releases, and other deliverables.
- 1.1.17. **Final Payment:** The final and complete payment to the Contractor in accordance with the Contract Documents.
- 1.1.18. **Inspector:** The City's authorized representative assigned to make detailed inspection of the Work performed by the Contractor.
- 1.1.19. **Notice of Final Acceptance:** The written notice of the date, as certified by the City, of Final Acceptance.
- 1.1.20. **Notice to Proceed:** The written notice by the City to the Contractor authorizing the Contractor to proceed with the Work.
- 1.1.21. **Notice of Substantial Completion:** The written notice of the date, as certified by the City, of Substantial Completion.
- 1.1.22. **Parties:** The City and the Contractor.
- 1.1.23. **Project:** The total construction of which the Work to be provided under the Contract Documents may be the whole or a part as indicated elsewhere in the Contract Documents and may include construction by other contractors.
- 1.1.24. **Project Manager:** The City's designated, authorized representative assigned to the Project with day-to-day responsibility for managing the Contract.
- 1.1.25. **Reasonably Predictable Weather Days:** Estimated Weather Day(s) where critical path activities cannot be performed in any month, within contract weather or temperature limitations, or due to weather related soil conditions.
- 1.1.26. **Shop Drawings:** All drawings, diagrams, illustrations, brochures, schedules, and other data prepared by the Contractor, any Subcontractor, manufacturer, Supplier or distributor that illustrate how specific portions of the Work will be fabricated or installed.

- 1.1.27. **Special Conditions:** Additions to the General Conditions containing instructions and conditions peculiar to an individual Project.
- 1.1.28. **Specifications:** A part of the Contract Documents consisting of written technical description of materials, equipment, construction systems, standards, and workmanship.
- 1.1.29. **Subcontractor:** Any person or entity having a subcontract with the Contractor (or any Subcontractor, of any tier, whether or not authorized by the Contractor) to furnish and perform work at the Work site, including the provision of labor, materials, equipment, supplies, tools, services, or any combination of these. This definition shall not limit the Contractor's obligations, or alter any Subcontractor's rights, under any law or contract.
- 1.1.30. **Substantial Completion:** The date on which the Work has progressed to the point that the City can beneficially occupy or utilize the Work for the purpose for which it is intended, and the Work complies with all applicable codes and regulations, including, if required, issuance of a certificate of occupancy, or certificate of suitability for use from the appropriate governmental agencies, as determined by the City in its sole discretion.
- 1.1.31. **Superintendent:** The Contractor's authorized representative assigned to the Project with day-to-day responsibility for managing the Project.
- 1.1.32. **Supplier:** Any person or organization who supplies materials, supplies, tools, equipment, or other items for the Work, including those fabricated to a special design, but who does not perform labor at the site. This definition shall not limit the Contractor's obligations, or alter any Supplier's rights, under any law or contract.
- 1.1.33. **Surety:** Any entity that is bound with and for the Contractor for the performance of the Work and/or the payment for any labor and material through the performance bond and/or the payment bond.
- 1.1.34. **Unit Price:** An amount stated in the Bid as a price per unit of measurement for materials or services as described in the Contract. Unit Prices are intended to cover all items of work to be done and materials to be furnished to fully complete the Work in accordance with the Contract Documents (including without limitation the cost of appurtenant items of work, labor, materials, fees, bond costs, supplies, utilities, royalties, tools, forms and equipment, and all other costs (including without limitation sales and use tax, insurance, licenses, permits, profit, and other overhead) not listed separately, not shown on the Plans and Specifications, or not specified but necessary to complete the Work in accordance with the Contract Documents).
- 1.1.1. **Weather Day:** Any day on which Work is scheduled in the Construction Schedule but cannot be performed within contract weather or temperature limitations or due to weather related soil conditions, and where work on critical activities cannot be performed for more than fifty percent (50%) of the work day, including any day immediately following a Weather Day on which subsequent day Work was scheduled in the Construction Schedule but cannot be performed on scheduled critical path activities due to weather related site or soil conditions for more than fifty percent (50%) of the day (drying days).
- 1.1.2. **Work:** The construction and services required by the Contract Documents, whether completed or partially completed, including all other labor, materials, equipment, supplies, management, administration, supervision, manufactured components, and

services provided or to be provided by the Contractor to fulfill the Contractor's obligations under the Contract. The Work may be the whole or a part of the Project.

1.2. Words of Importance.

When the Contract Documents use the phrases or words "as directed," "as required," "approved," "acceptable," "satisfactory," or other phrases or words of like meaning without further indication, the intended direction, requirement, approval, or satisfaction shall be that of the Project Manager.

1.3. References.

Words describing materials or Work having a well-known technical or trade meaning in an industry, unless otherwise specifically defined, shall be construed in accordance with well-known meanings as recognized by engineers, architects, and the trades. All references to standard specifications, methods of testing materials, codes, practices, and requirements refer to the edition of each in effect on the date of the Request for Bids unless a specific edition or revision is referenced.

1.4. Computation of Time.

Any period of time referred to in the Contract Documents will be computed to exclude the first and include the last day of the period. If the last day of the period falls on a Saturday, Sunday, or legal holiday for the City, such day will be omitted from the computation.

1.5. Abbreviations.

When the following abbreviations appear in the documents, they are defined as follows:

AASHTO	American Association of State Highway and Transportation Officials
ACI	American Concrete Institute
ACPA	American Concrete Pipe Association
ACOE or COE	U.S. Army Corps of Engineers
AGC	Associated General Contractors of America, Inc.
AIA	American Institute of Architects
AIEE	American Institute of Electrical Engineers
AISC	American Institute of Steel Construction
ANSI	American National Standards Institute
APHA	American Public Health Association
APWA	American Public Works Association
ASA	American Standards Association
ASCE	American Society of Civil Engineers
ASME	American Society of Mechanical Engineers
ASTM	American Society for Testing and Materials
AWS	American Welding Society
AWSC	American Welding Society Code
AWWA	American Water Works Association
CDOT	Colorado Department of Transportation
CPM	Critical Path Method
DHS	U.S. Department of Homeland Security
EPA	U.S. Environmental Protection Agency
GESC	Grading, Erosion and Sediment Control
IEEE	Institute of Electrical and Electronic Engineers

MUTCD	Manual on Uniform Traffic Control Devices
NBS	National Bureau of Standards
NCPI	National Clay Pipe Institute
NEC	National Electric Code
NEMA	National Electrical Manufacturer's Association
OSHA	Occupational Safety & Health Administration
RCRA	Resource Conservation and Recovery Act
SAME	Society of American Military Engineers
SACWSD	South Adams County Water & Sanitation District
SAVE	Systematic Alien Verification or Entitlement program
WW-P	Federal Specifications Prefix

ARTICLE 2 PRELIMINARY MATTERS

2.1. Notice to Proceed.

The City will give the Contractor written Notice to Proceed with the Work after execution of the Contract by the City. The Contractor shall begin the Work by the date stated in the Notice to Proceed and diligently pursue the Work regularly and without interruption (unless otherwise directed in writing by the Project Manager) with the force necessary to complete the Work and achieve Final Acceptance within the Contract Time. If any milestones are described in the Contract Documents or the approved Construction Schedule, the Work described by each milestone shall be accomplished on or before that milestone in accordance with the Contract Documents.

2.2. Construction Schedule.

- 2.2.1. Within the time specified in the Request for Bids, the Contractor shall submit to the City a proposed Construction Schedule using Primavera, MS Project or other comparable Critical Path Method (CPM) scheduling software.
- 2.2.2. The Construction Schedule must include all Work activities to be performed under the Contract including any work to be performed by Subcontractors and must account for all Reasonably Predictable Weather Days. All activities should be logically tied with a critical path clearly identified. The schedule must have sufficient detail to adequately plan and manage the Work. Contractual and key milestones are to be identified.
- 2.2.3. The Construction Schedule must include a brief narrative including:
 - a) A Critical Path description;
 - b) Identification of non-work days such as weekends or holidays;
 - c) A table showing calculated Reasonably Predictable Weather Days (including drying days for each month); and
 - d) List of assumptions used while developing the Construction Schedule.
- 2.2.4. It will be presumed that the Contractor, at the time of bidding, took into account the number of days which might be unavailable for Work as a result of Reasonably Predictable Weather Days during the Contract Time.
- 2.2.5. The Contractor shall calculate Reasonably Predictable Weather Days by using the last ten (10) years of historical weather data from the nearest NOAA weather data collection station, or other approved weather station, to compute the average number

of Weather Days for each month of the Construction Schedule.

- 2.2.6. On a monthly basis with each pay application and as requested by the Project Manager, the Contractor shall update the Construction Schedule and provide a summary report of progress on the various parts of the Work, including the status, rate of progress, estimated completion date, and cause of delay, if any. This report shall not constitute a request or approval for any change in the Contract Time.
- 2.2.7. Work shall normally not be done on Saturdays, Sundays, City observed holidays, or outside of the daytime working hours (7:00 a.m. to 5:00 p.m.), except for such work as may be necessary for proper care, maintenance, and protection of Work already done, or in cases when the Work would be endangered or when hazard to life or property would result.
- 2.2.8. If the Contractor believes it may be necessary to work on Saturdays, Sundays, holidays, or at night, the Contractor shall make prior arrangements with the Project Manager and receive written approval at least twenty-four (24) hours before such work period so that proper inspection and engineering services can be provided. Such approval may be revoked by the Project Manager if the Contractor fails to maintain adequate equipment and lighting at night for the proper prosecution, control and inspection of the Work. If Work is done outside of approved working hours, and the Project Manager has not assigned Inspectors to the Work, the Work performed during those periods of time may be declared defective solely on the grounds that it was not properly inspected.

2.3. Pre-Construction Meeting.

Before Work is commenced and materials are ordered, the Contractor shall meet and consult with the Project Manager relative to the materials, equipment, schedule, site, and other arrangements for the commencement of the Work.

2.4. Contractor's Understanding of Work.

The Contractor agrees that, by careful examination, it is satisfied as to the nature and location of the Work, the conformation of the ground, the character, quality, and quantity of the materials to be encountered, the character of equipment and facilities needed before beginning and for the Work, the general and local conditions, and all other matters, which can in any way affect the Work under the Contract. No oral agreement with any officer, agent, or employee of the City either before or after the execution of the Contract shall affect or change any of the terms or obligations contained in the Contract.

2.5. Contractor's Representation.

The Contractor represents and warrants that it has the knowledge, ability, experience, and expertise to perform the Work competently in accordance with the Contract Documents. The Contractor represents and warrants the capacity of the Contractor's construction plant, personnel, and its ability to complete the Work by the Completion Date.

2.6. Other Work.

The City reserves the right to award other contracts in connection with the Project or other activities. The Contractor must be prepared to accept the presence, on or adjacent to the construction site, of work forces of other contractors, subcontractors, tenants, government

agencies and municipal, public service or utility systems. The Contractor shall cooperate with and afford other contractors reasonable opportunity for the introduction and storage of their materials and the execution of their Work, and shall coordinate its Work with theirs. If it becomes impossible to proceed with the Work in a manner that permits all activities to progress at a reasonable pace, the Project Manager will select the course of action that appears to best serve the City.

2.7. Notices.

Except for routine communications, written notices required under this Contract and all other correspondence between the Parties will be deemed received when hand-delivered or three (3) days after being sent by certified mail, return receipt requested (unless the Parties consent to electronic delivery). The address in the Bid will be the Contractor's address for the delivery of notices, unless modified by the Contractor by written notice at least three (3) business days prior to the change. Notices to the City shall be delivered to the Project Manager except as provided in the Contract Documents.

2.8. Contractor's Signs.

No signs with Contractor's name, logo, telephone number, address or, (etc.), shall be placed on any pole, road, structure or other surface, unless approved in writing, and in advance of such placement, by the City.

2.9. Publicity and Advertising.

- 2.9.1. Neither the Contractor nor its Subcontractors or Suppliers shall include any reference to the Contract or to Work performed hereunder in any advertising or public relations materials without first obtaining the written approval of the Project Manager. All information shall be factual, and shall in no way imply that the City endorses the Contractor or its services or product.
- 2.9.2. The City shall have the right to photograph, videotape, film or in any other manner record the progress of the Work at any time and to use such materials for any purpose.

ARTICLE 3 DRAWINGS AND SPECIFICATIONS

3.1. Intent of Drawings and Specifications.

- 3.1.1. In the Drawings and Specifications, the City intends that the Contractor furnish all superintendence, labor, materials, tools, equipment, supplies, machinery and transportation necessary for the proper execution of the Work unless specifically noted otherwise. The Contractor shall do all the Work shown on the Drawings and described in the Specifications and all incidental Work reasonably necessary to complete the Project in a substantial and acceptable manner, and to complete fully the Work, ready for use, by the City. The Contractor shall complete all Work according to the Specifications and Drawings.
- 3.1.2. The Contract Documents are intended to be complementary, and Work called for on any Drawing and not mentioned in the Specifications, or Work described in the Specifications and not shown on any Drawing, is included under the Contract as if set forth in both the Specifications and Drawings.

3.1.3.

- 3.1.4. Material and workmanship specified by the number, symbol, or title of a referenced standard shall comply with the latest edition or revision thereof and any amendments or supplements thereto in effect on the date the bid is received except where a particular issue or edition of a publication is indicated. In case of a conflict between the Drawings, Specifications and the referenced standard, the more stringent shall govern, as determined by the Project Manager.
- 3.1.5. If labor, materials or equipment, although not described by the Drawings or Specifications, is required to successfully complete the Work and can reasonably be inferred by competent contractors by virtue of common knowledge or customary practice in the construction industry from the Contract Documents as being necessary to produce the intended result, the Contractor shall perform that work or provide the materials or equipment as if they were specified.
- 3.1.6. Contractor shall carefully study the Contract Documents and, if Contractor identifies any discrepancies found between the Drawings and Specifications and site conditions and any adjacent work on which the Work is dependent and any errors or omissions in the Drawings or Specifications, shall promptly notify the Project Manager of such discrepancies, errors, or omissions in writing, and any necessary changes shall be accomplished by issuance of an appropriate Change Order or Field Order. Any Work done by the Contractor after discovery of such discrepancies, errors or omissions prior to the issuance of a Change Order or Field Order is done at the Contractor's risk. In all cases, the Project Manager shall decide the intent of the Drawings and Specifications.
- 3.1.7. If the Contractor or any of its Subcontractors or Suppliers, knows or reasonably should know by virtue of common knowledge or customary practice in the construction industry that any of the Contract Documents are at variance with applicable laws, statutes, ordinances, building codes, or rules or regulations, in any respect, the Contractor shall promptly notify the Project Manager in writing, and any necessary changes shall be accomplished by issuance of an appropriate Change Order or Field Order. The Contractor shall assume full responsibility for, and shall bear all costs attributable to work performed by the Contractor or any Subcontractor prior to the issuance of a Change Order or Field Order when any of them know or reasonably should know that it is contrary to such laws, statutes, ordinances, building codes, rules or regulations.
- 3.1.8. The Contractor, before commencing work, shall verify all governing dimensions, and shall examine, to the extent reasonable, all adjoining work on which its Work is in any way dependent. No disclaimer of responsibility for defective or non-conforming adjoining work will be considered unless written notice of the same has been filed by the Contractor and agreed to in writing by the Project Manager before the Contractor begins any part of the affected Work.
- 3.1.9. The Contractor shall perform no portion of the Work at any time without Contract Documents or, where required, approved Drawings, Specifications, instructions, Shop Drawings, product data, or samples for such portion of the Work.

3.2. Copies of Drawings and Specifications Furnished.

The Project Manager will furnish to the Contractor copies of Drawings and Specifications of the Work at reproduction costs (including labor) or electronic copies of Drawings and Specifications in electronic form at no charge.

3.3. Utilities.

- 3.3.1. Delays relating to relocation of utilities should be anticipated for Work on or involving City rights-of-way.
- 3.3.2. It is the Contractor's responsibility to verify all locations of existing structures and utilities shown on the Drawings and to ascertain whether any other structures and utilities exist. The Drawings show available information on the location of existing underground, surface and overhead structures and utilities. However, the City does not guarantee the results of the investigations are accurate or complete.

3.4. Requests for Clarifications and Information.

- 3.4.1. The Contractor shall submit any requests for information or clarification of Drawings and Specifications to the Project Manager or to the person who has been designated by the Project Manager to receive such requests. When the City responds to such requests for information or clarification, it will issue a response which can consist of a written explanation with or without drawings or other information in the City's sole discretion. Such requests and responses to such requests shall neither authorize nor constitute changes in the Contract Time or Contract Price. If the Contractor believes that the response to any request for information or clarification requires a change in Contract Time or Contract Price, it shall submit a Contractor Change Request in accordance with the Contract Documents.
- 3.4.2. The Contractor shall review and attempt to answer requests for information or clarification from its Subcontractors and Suppliers. Such requests shall be encompassed within the Contractor's request for information or clarification by the Contractor to the Project Manager if the Contractor is unable to answer such requests.

3.5. Dimensions.

Figured dimensions shall govern over scaled dimensions.

3.6. Shop Drawings.

- 3.6.1. The Contractor shall provide Shop Drawings, settings, schedules, and such other Drawings as may be necessary for the prosecution of the Work in the shop and in the field as required by the Drawings, Specifications or Project Manager's instructions.
- 3.6.2. The Contractor shall submit for approval three (3) reproducible copies of all Shop Drawings and descriptive data as applicable showing all features not fully detailed on the Specifications but essential for a completely coordinated installation. An additional copy shall be provided for each railroad company affected by the Work. The Contractor will correct errors in Shop Drawings as directed by the City.
- 3.6.3. The City's approval of Shop Drawings indicates only that the type and kind of equipment and general method of construction or detailing are satisfactory and in general compliance with the Contract Documents and design concept of the Project. The Contractor has the responsibility for incorporating into the Work satisfactory materials and equipment meeting the requirements of the Contract Documents, the proper dimensions, and the detailing of connections.
- 3.6.4. The Contractor may not construe such approval as a complete check and approval

does not indicate the waiver of any Contract requirement. Changes in the Work are authorized only by separate written Change Order.

3.7. Record Documents.

- 3.7.1. The Contractor shall keep one complete set of all Drawings and Specifications at the work site and available to the City and its representatives at all times.
- 3.7.2. The Contractor shall keep one record copy of all Amendments, Change Orders, Drawings, Field Orders, Shop Drawings and Specifications in good order.
- 3.7.3. The Contractor shall record any changes made during construction and any discrepancies between the Contract Documents and Work actually performed on the record copies (however minor or seemingly insignificant). The Contractor shall make a set of "Record Drawings" by marking this set of prints with all changes from the original Drawings as bid, including all Change Orders, alignment changes, depth changes of underground pipes and utilities, utility locations, and all other items that are not the same as originally drawn. The Contractor shall keep the Record Drawings up to date as the Project progresses. The Project Manager may require, as a condition of the approval of any progress payment, periodic inspection of the Record Drawings. The Contractor will deliver the Record Drawings to the Project Manager upon completion of the Project before Final Payment.
- 3.7.4. All Contract Documents are the property of the City and shall not be used by the Contractor for any purpose other than the Work to be performed under the Contract. At Final Acceptance, all Shop Drawings and Record Drawings, including all material in electronic format shall become the property of the City. The Contractor will be permitted to maintain a copy of the Drawings, Specifications and Shop Drawings as necessary to maintain a Contract record file.
- 3.7.5. The Contractor shall prepare and keep current a schedule of submittals that shall note all required submittals, submittal dates, required approval dates, and all required delivery dates.

3.8. Site Inspection & Differing Site Conditions.

- 3.8.1. Drawings and specifications defining the Work were prepared on the basis of interpretation by design professionals of information derived from investigations of the Work site. Such information and data are subject to sampling errors, and the interpretation of the information and data depends to a degree on the judgment of the design professional. Information about the degree of difficulty of the Work to be done cannot totally be derived from either the Drawings or Specifications or from the Project Manager. The Contractor shall not be entitled to an adjustment to the Contract Time or Contract Price for any condition that was or would have been evident at the time of a pre-bid site inspection. By executing the Contract, the Contractor represents that it has visited the site if and to the extent it believed necessary, familiarized itself with the location and conditions under which the Work is to be performed, and correlated its observations with the requirements of the Contract Documents.
- 3.8.2. The Contractor shall promptly, before such conditions are further disturbed, notify the Project Manager in writing of:

e) Subsurface or latent physical conditions at the Work site differing materially from

those indicated in the Contract; or

f) Unknown physical conditions at the Work site, of an unusual nature, differing materially from those ordinarily encountered and generally recognized as inherent in work of the character provided for in the Contract.

3.8.3. Upon receipt of written notification from the Contractor of alleged differing site conditions, the City shall promptly investigate the conditions. If the City finds that the conditions materially differ and could not have been discovered, or reasonably inferred, from the Contract Documents or a thorough inspection of the Work site by the Contractor, and such conditions cause an increase or decrease in the Contractor's cost of or the time required for performance of any related part of the Work under the Contract, an adjustment to the Contract Time or Contract Price, or both, may be made through a Change Order.

3.8.4. If the Contractor has not fully complied with the notice and submittal requirements of this section or any part of the General Conditions pertaining to Change Orders, with particular attention to not disturbing the site prior to allowing the City to investigate the conditions, the Contractor shall be deemed to have waived its right to assert a claim for differing site conditions.

3.8.5. No claim will be allowed under this section if Final Payment has been made.

3.9. Geotechnical and Other Design Professional Reports, Investigations & Tests.

3.9.1. The Contractor acknowledges that certain soils reports, borings, and other geotechnical data, more particularly described or referenced in the Specifications of the Contract, have been made available for inspection and review. The borings were made for the use of the City in the design of the Project and are not intended to be interpreted for use in temporary construction facilities designed by the Contractor.

3.9.2. The City in no way warrants the accuracy or reliability of said borings and other geotechnical data or of the data, information or interpretations contained in said soils reports, and is not responsible for any deduction, interpretation, or conclusion drawn therefrom by the Contractor. Said soil reports may contain interpretations by design professionals of borings and geotechnical data obtained at the Work site. Such borings and geotechnical data are subject to sampling errors, and any interpretations or conclusions based on such borings and data depend to a degree on the judgment of the design professionals.

3.9.3. The Contractor agrees that it will make no claims against the City if, in performing the Work, it finds that the actual conditions encountered do not conform to those indicated by said soil reports, borings and other geotechnical data, or those reasonably inferred therefrom or reasonably discoverable by a thorough inspection of the site by the Contractor.

ARTICLE 4 RIGHT-OF-WAY & ACCESS

4.1. Acquisition of Right-of-Way.

4.1.1. Before issuance of Notice to Proceed, the City shall obtain all land and right-of-way necessary for carrying out and completion of the Work to be performed pursuant to the Contract, unless otherwise mutually agreed.

- 4.1.2. The City shall provide to the Contractor information that delineates and describes the lands owned and rights-of-way acquired, when necessary. The Contractor shall confine its operations within the areas designated by the Project Manager.

4.2. Access to Right-of-Way.

- 4.2.1. The City will make best efforts to provide right of access to all places necessary for the performance of the Work in a timely manner. The City will not be liable to Contractor for any delay in providing access for reasons outside the City's control.
- 4.2.2. Nothing contained in the Contract shall give the Contractor exclusive occupancy of the area provided by the City. The City, other contractors of the City and utility companies may enter upon or occupy portions of the land furnished by the City for any purpose, but without unreasonably interfering with the completion of the Project. Joint occupancy or use of the territory shall not be the basis of any claim for delay or damages.

4.3. State Highway Right-of-Way.

If any part of the Project requires Work within the right-of-way of a roadway under the jurisdiction of the Colorado Department of Transportation (CDOT) the Contractor shall obtain the necessary permits from CDOT to perform such Work. The Contractor shall conform to all the requirements and restrictions indicated on the permit. The Contractor shall restore the area to its original condition, including reseeding if necessary, at the completion of the Project. The Contractor's equipment shall not be stored on any traveled highway.

ARTICLE 5 CONTRACTOR'S GENERAL RESPONSIBILITIES

5.1. Contractor Performance.

- 5.1.1. The Contractor will perform the Work or cause the Work to be performed in a manner that is in compliance with the requirements of the Contract Documents. The Contractor shall perform the Work exactly as specified by the Contract Documents.
- 5.1.2. Unless otherwise provided in the Contract Documents, for the Unit Prices, the Contractor shall provide and pay for all labor, materials, equipment, tools, supplies, construction equipment and machinery, water, heat, electricity, energy, utilities, transportation, any temporary construction easements not provided by the City, apparatus, permits, superintendence, maintenance, dismantling, removal, and other facilities and services, necessary for the proper execution and completion of the Work, whether temporary or permanent, and whether or not incorporated or to be incorporated into the Work.
- 5.1.3. The Contractor shall supervise and direct the Work using the Contractor's best efforts, skill and attention.
- 5.1.4. The Contractor shall also supervise, direct and be responsible for all work performed by its Subcontractors, their agents and employees and other persons performing any of the Work under a contract with the Contractor, Subcontractors of any tier, or Suppliers of any tier.
- 5.1.5. The Contractor shall be solely responsible for all construction means, methods, safety, techniques, sequences and procedures unless otherwise specified in the Contract

Documents.

- 5.1.6. When the work includes adjusting valve boxes, meter pits, manholes, pavement markings and/or striping, etc., the Contractor shall complete this work within ten (10) days of placing the final lift of asphalt.

5.2. Contractor's Superintendent.

- 5.2.1. The Contractor shall designate a Superintendent to be its representative and have immediate charge of the Project. The Superintendent or his or her representative shall have the Contractor's authority to act in its absence. The same person shall continue in the capacity of Superintendent until the Work has been completed unless the City requests that the Superintendent be replaced or the Superintendent ceases to be employed by the Contractor or becomes sick or disabled.
- 5.2.2. All directions and notice given to the Superintendent or his or her representative shall be considered given to the Contractor.
- 5.2.3. The Contractor shall keep the Project Manager informed, at all times, of the progress of the work and schedule of construction. The Superintendent or his or her representative shall have a radio, cell phone, or pager to be available to the Project Manager or any inspector as needed. The Project Manager may suspend operations at the Work site if the City cannot communicate with the Superintendent.
- 5.2.4. Any person employed on the Project who fails, refuses, or neglects to obey the Superintendent or his or her representative shall, upon the order of the Project Manager, be at once removed from the Project and not again employed on any part of the Project.

5.3. Subcontractors.

- 5.3.1. The Contractor may use the services of specialty Subcontractors on those parts of the Work which, under normal contracting practices, are performed by specialty Subcontractors.
- 5.3.2. The Contractor shall not sublet or subcontract any portion of the Work to be done under the Contract to any Subcontractor or Supplier not identified in the Bid until approval of such action has been obtained from the City. The City may disapprove of a Subcontractor for any reason deemed appropriate by the Project Manager, including without limitation:
 - a) Default on a contract within the last five (5) years;
 - b) Default on a contract that required that a surety complete the contract under payment or performance bonds issued by the surety;
 - c) Debarment within the last five (5) years by a public entity or any organization that has formal debarment proceedings;
 - d) Significant or repeated violations of Federal Safety Regulations (OSHA);
 - e) Failure to have the specific qualifications listed in the Contract Documents for the work that the Subcontractor will perform;
 - f) Failure to have the required City or Colorado licenses to perform the work

described in the subcontract;

- g) Failure to pay workers the proper wage and benefits or to pay suppliers or subcontractors with reasonable promptness within the last five (5) years;
- h) Conviction, plea of nolo contendere, entry into a formal agreement admitting guilt or entry of a plea of guilty or otherwise admitting culpability to criminal offenses of bribery, kickbacks, collusive bidding, bid-rigging, anti-trust, fraud, undue influence, theft, racketeering, extortion or any offense of a similar nature in connection with Subcontractor's business, on the part of Subcontractor's principal owners, officers, or employees, within the last five (5) years;
- i) Failure to pay taxes or fees to the City;
- j) Evidence that the Subcontractor was selected by the Contractor through the process of bid shopping, dishonesty or buyout.

Rejection or acceptance of any Subcontractor shall not create in that Subcontractor a right to any subcontract or the right to perform any portion of the Work, nor shall acceptance or rejection relieve the Contractor its responsibilities for the work of any Subcontractor.

- 5.3.3. The Contractor is fully responsible to the City for the acts and omissions of its Subcontractors, and of persons either directly or indirectly employed by them.
- 5.3.4. The action or omission of any Subcontractor in violation of this Contract or any subcontract will not relieve the Contractor from any obligation under this Contract or at law.
- 5.3.5. Nothing contained in the Contract or any exercise of rights under this Contract creates any contractual relationship or privity of contract tween any Subcontractor and the City.
- 5.3.6. The Contractor shall put appropriate provisions (including the indemnity and insurance provisions) in all Subcontracts relative to the Work to bind Subcontractors to the terms of the Contract insofar as applicable to the work of Subcontractors (even if not specifically required here), and to give the Contractor the same power to terminate any Subcontractor that the City may exercise over the Contractor.
- 5.3.7. The Contractor shall specifically stipulate in all Subcontractor or Supplier contracts and purchase order forms for all materials and systems that the guarantee period begins with the date of Substantial Completion. The Contractor shall, during the course of the Work, specifically instruct Subcontractors and Suppliers that all written guarantees, that are due to be submitted to the City, shall indicate the initiation of the guarantee period as being the date of Substantial Completion.
- 5.3.8. The Contractor shall make available to each proposed Subcontractor, before the execution of the subcontract, complete and accurate copies of the Contract Documents to which the Subcontractor will be bound, and, upon written request of the Subcontractor, identify to the Subcontractor terms and conditions of the proposed subcontract agreement which may be at variance with the Contract Documents. Subcontractors shall similarly make copies of applicable portions of such documents available to their respective proposed Subcontractors.

5.4. Workforce.

- 5.4.1. The Contractor shall assign an adequate number of qualified, competent workers to each task to complete the Work on schedule and in accordance with the Contract Documents.
- 5.4.2. If the City believes that the Work is not proceeding satisfactorily or may not be satisfactorily completed by the Completion Date, the Project Manager may, by letter to the Contractor, require the Contractor to submit a corrective action plan identifying steps to be taken, at no additional cost to the City, to raise the rate of progress to an acceptable level.
- 5.4.3. Competent personnel with experience and skills adequate for the assigned tasks are an absolute necessity for job safety and for the performance of quality work. The Contractor and any Subcontractor shall employ only foremen and workers skilled in the Work requiring special qualifications. The Contractor shall reassign or remove from the Project all personnel who are requested to be reassigned or removed by the Project Manager or who are incompetent, uncooperative, refuse to comply with safety requirements, or are otherwise unfit to perform the assigned task. No increase in Contract Time or Contract Price is authorized as a result of the City's exercise of this section.

5.5. Work Performed Under Adverse Weather Conditions.

- 5.5.1. Adverse weather conditions are those that can, depending on the Work to be performed, cause defective Work. High or low temperatures, excessive moisture, or unusual drying conditions are examples.
- 5.5.2. Construction methods and practices that have been or may be developed for Work performed under such circumstances may only be used after the Project Manager has approved the concept of such method or practice.
- 5.5.3. If the Contractor does attempt Work during periods of adverse weather conditions without the Project Manager's approval, that Work shall be at the Contractor's sole risk.

5.6. Materials and Equipment Furnished by the Contractor.

- 5.6.1. Unless otherwise provided for in the Specifications, all workmanship, equipment, materials, and articles incorporated in the Project are to be new, suitable for the purpose used, of good quality, free from faults and defects and in conformance with the Contract Documents.
- 5.6.2. The Contractor further warrants that it has full title to all parts, materials, components, equipment, and other items conveyed to the City under the terms of the Contract, that its transfer of such title to the City is rightful and that all such parts, materials, components, equipment, and other items shall be transferred free and clear from all security interests, liens, claims, or encumbrances whatsoever. Materials, supplies, and equipment to be incorporated into the Project shall not be purchased by the Contractor or any Subcontractor subject to chattel mortgage or under a conditional sales contract or other agreement by which an interest is retained by the seller. The Contractor agrees to warrant and defend such title against all persons claiming the whole or any part thereof, at no cost to the City.

- 5.6.3. The Contractor shall furnish the City, for the Project Manager's approval, the name of the manufacturer of machinery and other equipment for materials the Contractor contemplates incorporating in the Project. The Contractor shall also furnish information on capacities, efficiencies, sizes, etc., and other information as may be required by the Project Manager. All items shall be labeled to indicate the Contract and Project name, Contractor, source of supply, and manufacturer and shall be submitted in sufficient time to permit proper consideration by the Project Manager without impacting the Construction Schedule.
- 5.6.4. The Contractor shall have available for use when needed all necessary construction machinery and equipment. Such machinery and equipment shall comply with all applicable federal, state and local safety requirements and be in good working condition, adequate for the task, and in the numbers needed to maintain a rate of progress sufficient to complete the Work within the Contract Time and milestones. Whenever an operation is undertaken which must be accomplished without any slowdown or stoppage, or to avoid an inferior product, the Contractor shall provide standby equipment capability so that an equipment breakdown does not disrupt that activity.
- 5.6.5. The Contractor shall give the Project Manager three (3) copies of all shop manuals, operating manuals, parts lists, classifications, catalog cuts, specifications, warranties and guarantees for all equipment and machinery installed.
- 5.6.6. Consideration of a product as an "equal" by the Project Manager may require that the manufacturer of such product furnish guarantees that extend beyond the usual product warranty time. The refusal of a manufacturer to provide such guarantees is sufficient reason for rejecting the product.
- 5.6.7. The Contractor shall not incorporate any materials into the Project or cover any part of the Work until it has been inspected and approved according to the Contract Documents. Machinery, equipment, materials, and articles installed or used without the Project Manager's approval are at the risk of subsequent rejection.

5.7. Substitution of Materials & Equipment.

- 5.7.1. After the award of the Contract, the Contractor may ask for substitution of specified material or equipment with equal or equivalent items only under the following circumstances: (i) The Contractor provides evidence to the Project Manager that, in the Project Manager's sole opinion, establishes that an item of specified material is not available; (ii) the Contractor provides evidence to the Project Manager that, in the Project Manager's sole opinion, establishes that the specified item will have an unreasonable delivery time due to no fault of the Contractor; or (iii) acceptance of such substitution would result in a significant saving to the City without materially impairing the quality or performance of the Work. If any of these circumstances exist, the Contractor shall request approval for a substitution at least thirty (30) days before the material or equipment must be ordered.
- 5.7.2. All requests for substitutions shall be made in writing as part of a submittal. The request shall describe all features of the requested substitution including any tie-in with other elements of the Work, including utilities and controls along with the size and capacity of substitute materials or equipment. The request must be submitted on a form provided by or otherwise acceptable to the Project Manager, and shall list all

differences from the product described in the Specifications, include the price of the specified item and the requested substitution, and describe any advantages or disadvantages of the proposed substitution. The Contractor shall be responsible for any effect upon related Work in the Project of any substitution and shall pay any additional cost resulting from or relating to any substitution.

- 5.7.3. If the “equal or equivalent” material or equipment costs less than that specified, the Contractor shall so state in its request for substitution and, if the City accepts the proposed substitution, it may issue a Change Order to reduce the Contract Price by the amount of the direct cost savings without markup to the Contractor.
- 5.7.4. If the equal or equivalent material or equipment is accepted for unavailability or unreasonable delivery time due to no fault of the Contractor, the City may, if appropriate, issue a Change Order to increase the Contract Price by the resulting actual, direct cost increase, if any, to the Contractor, without markup.

5.8. Defective Work and Materials.

- 5.8.1. Material and workmanship not conforming to the requirements of the Contract are deemed defective. The Contractor shall bear all costs of investigating and correcting such defective Work and materials, which includes design efforts necessary to correct such Work.
- 5.8.2. Whether or not the Work is defective will be determined by comparing it to the Contract Drawings, Specifications, accepted Shop Drawings and manufacturer’s literature and further measuring it against the standard of quality implied by the Contractor’s warranty. Also, should the appearance and performance of any element of the Work fail to conform to standards of the trade for such Work, that Work may be declared defective.
- 5.8.3. Defects discovered by any inspection process or testing, or otherwise made apparent during the Work, shall be repaired, removed, or replaced by the Contractor, at no cost to the City, as identified. The City shall have the right to charge the Contractor for its costs of re-inspecting the Work after the defective Work is corrected and any costs of verifying or determining the existence of latent defects.
- 5.8.4. If the Contractor fails to replace rejected materials or Work within ten (10) days after receipt of written notice, the City may replace or correct them and charge the cost to the Contractor and may terminate the right of the Contractor to proceed.
- 5.8.5. Failure to detect previously installed defective materials or workmanship shall not impair the City’s right to receive a completed Work, which is free of defects and meets all of the requirements of the Contract Documents. Nothing in this section shall limit the City’s right to seek recovery for latent defects that are not observable until after any warranty or guaranty periods have run.

5.9. Cutting and Patching.

- 5.9.1. The Contractor shall be responsible for all cutting, fitting, or patching that may be required to complete the Work, to make its several parts fit together properly or to tie the Work into other work that is shown in the Contract Documents.
- 5.9.2. The Contractor shall organize and plan the Work to reduce to a minimum the need for

cutting or otherwise modifying or removing load-bearing structural elements to accommodate the installation of other elements of the Work. If two or more contractors are doing work in the same place, the Contractor shall be responsible for the coordination effort needed to avoid or to reduce the amount of cutting, modifying or removing of structural elements to accomplish such work. However, if modification or removal of structural elements is required because the Work could not be organized and planned to avoid that need, the Contractor shall inform the Project Manager of the need so that the consequences of such modification or removal of structural elements can be assessed. No structural element shall be cut, drilled, bored or otherwise modified unless cutting, drilling, boring or other modification is indicated in the Contract Documents.

- 5.9.3. If the Contractor needs to modify a structural element from its original design, the Contractor must submit to the Project Manager a request to make the modification. The request must provide complete details including all necessary calculations performed by a professional engineer licensed in the State of Colorado to show that the structural elements can still function as originally designed. The request must be accepted by the Project Manager before any modification is made.
- 5.9.4. The Contractor shall be responsible for all repair, replacement, and patching that is necessary to restore the Work, other property, or work of others damaged by the Contractor.

5.10. Samples and Testing.

- 5.10.1. All materials and equipment used in the Project will be subject to sampling and testing by an independent testing company acceptable to the City according to generally accepted standards and as required in the Contract Documents. In the absence of direct references, the sampling and testing of materials will be done according to current specifications of the ASTM or the AWWA.
- 5.10.2. The Contractor shall furnish all samples without charge. The Contractor will cooperate with the Project Manager in collecting, handling, storing, and forwarding required samples including the furnishing of manpower and equipment when necessary.
- 5.10.3. The Contractor will pay the cost of the initial test except when the Contract states otherwise. The Contractor will pay the costs for repeated tests due to failure of the initial test. The costs of any testing and retesting may be deducted from any payment due to the Contractor under the Contract.
- 5.10.4. The Contractor will provide the Project Manager at least twenty-four (24) hours prior notice for any inspection involving testing or sampling.
- 5.10.5. The Contractor shall be responsible for testing of concrete and soils and, unless otherwise specified, the Contractor shall perform testing of all other materials and equipment. The Contractor shall provide the Project Manager with satisfactory proof of compliance with the requirements of the Contract Documents of any materials or equipment tested. Satisfactory proof of compliance shall be submitted in one or more of the following ways:
 - a) Manufacturer's Certificate of Compliance. For standard labeled stock products of standard manufacture that have a record of satisfactory performance in similar work over a period of not less than two (2) years, the Project Manager may accept

a notarized statement from the manufacturer certifying that the product conforms to the applicable specifications.

- b) Mill Certificates. For materials where such practice is the usual standard, the Project Manager may accept the manufacturer's certified mill and laboratory certificate.
- c) Testing Laboratory Certificates. The Project Manager may accept a certificate from an independent commercial testing laboratory satisfactory certifying that the product has been tested within a period acceptable to the Project Manager and that it conforms to the requirements of the Plans and Specifications.
- d) Report of Actual Laboratory Test. The Project Manager may require that Contractor make actual tests of any product and submit a report of the specified test. Such test shall be made by a commercial testing laboratory satisfactory to the Project Manager at the Contractor's sole expense.

5.11. Substituted Performance.

- 5.11.1. If the Contractor's failure of exact performance does not appear to the City to be deliberate or willful and if the City concludes that less than exact performance in some minor part of the Work will not result in a decrease in quality in the entire Work, the City may, at its sole option, accept substituted performance.
- 5.11.2. Should the City accept substituted performance, the cost of the Work shall be reduced by the sum of money that the City determines to be a reasonable consideration for less than exact performance and the City may, at its discretion, require separate warranties for any substituted performance.

5.12. Project Signs.

- 5.12.1. One or more project signs may be posted at each Work site. The City will prepare any signs at its expense. When the City notifies the Contractor that the signs are ready, the Contractor shall deliver the signs to the Work site and install them in locations designated by the Project Manager. As the Work progresses, the Project Manager may direct the Contractor to relocate the signs. The Project Manager will direct the Contractor as to final removal of the signs, either upon completion of the Work or at such other time as the Project Manager may determine.
- 5.12.2. All costs of transporting, installing, relocating and removing such signs shall be borne by the Contractor. The Contractor shall pay the costs of repairing any damage to the signs which occurs after the Contractor takes possession of the signs.

5.13. Surveys.

- 5.13.1. The City shall develop and arrange for all engineering surveys necessary, in the City's judgment, to establish reference points for the construction of the Work. The Contractor assumes full responsibility for construction according to the established lines and grades. If the Contractor proceeds with the Work without having lines and grades set, the Contractor will not be relieved of strict compliance with the Contract Documents.
- 5.13.2. The Contractor shall carefully protect all monuments and property markers from disturbance or damage. The Contractor, at its expense, will replace any monuments or benchmarks destroyed by the Contractor using a professional land surveyor licensed in the State of Colorado.

- 5.13.3. Unless otherwise stated in the Specifications or the Special Conditions, the City will provide all reference points shown on the Contract Drawings by coordinates and/or elevation. The Contractor must accurately transfer the survey control information to the points of application to ensure that all elements of the Work are correctly located.
- 5.13.4. Requests by the Contractor to relocate survey reference points must be made ninety- six (96) hours prior to the time when the point will be disturbed in order to permit the City to accomplish such surveys on normal working days.
- 5.13.5. Any Work that the Contractor begins before confirming the reference points provided may be rejected.
- 5.13.6. Should the original reference points that the City provided be obliterated or dislodged by operations that the Contractor controls, the City will replace them and charge the Contractor for the resurvey. The cost of these resurveys will be determined by multiplying the hourly equivalent of the salaries and fringe benefits paid to the survey personnel actually involved in the resurvey by the hours expended in doing that resurvey, plus material and equipment costs.

5.14. Lines and Grades.

- 5.14.1. The Contractor shall survey and stake and shall be responsible for laying out the work.
- 5.14.2. The Contractor shall preserve all stakes, bench marks, and any other survey points and shall pay for the replacement, in accordance with state law, of any stakes, benchmarks, or other survey points destroyed by the Contractor or any Subcontractor.

5.15. Value Engineering.

Value engineering includes changes in materials or methods used that will reduce the amount of the Contract and will preserve the integrity of the Work without reducing quantities completed. Proposed changes in materials or methods used must be approved by the Project Manager and any agency having jurisdiction over the affected work before such work is attempted. The Contractor shall be paid fifty percent (50%) of all identifiable cost savings resulting from said value engineering approved and accepted. A Change Order must be issued to effect such a value engineering task.

5.16. Patents and Copyrights.

- 5.16.1. The Contractor's bid price shall be considered to include a sufficient sum to cover all fees, royalties and claims for any material, artist rights, process, patent rights, machine, appliance, copyright, trademark, or any arrangement that may be used upon or in any manner connected with or appurtenant to the Work.
- 5.16.2. The Contractor shall provide a suitable legal agreement giving the Contractor the right to use any design, device, material, or process covered by letters patent or copyright, in the construction of the Project when the use has not been specified or required by the Drawings and Specifications. The Contractor shall file a copy of this agreement with the City, if requested. The Contractor and the Surety shall indemnify, defend and save harmless the City from all claims for infringements on patented design, devices, material, process or any trademark or copyright during the prosecution or after the completion of the Project.

- 5.16.3. If any design, device, material, process or product of a particular manufacturer covered by letters patent or copyright is specified for use by the Drawings and Specifications, the City is responsible for any claims for infringement by reason of the use of such design, device, material, process or product of a particular manufacturer; but the Contractor shall pay any royalties or license fees required.

5.17. Utilities.

- 5.17.1. The Contractor shall support, and protect from injury, until completion of the Work any existing power lines, telephone lines, water mains, gas mains, sewers, cables, conduits, ditches, curbs, walks, pavements, driveways, and other structures in the vicinity of the Work that are not authorized to be removed.
- 5.17.2. The Contractor shall schedule and coordinate all Work with any utilities. The Contractor shall cooperate with utility owners (including electrical, gas, communication, water, sewer and railroad) to mitigate damage (including relocation or removal) whenever the Contractor's work affects their utilities. The Contractor shall seek to expedite the progress of such work and minimize duplication of work and disruption of services.
- 5.17.3. The Contractor shall conduct its operations in such a manner as to minimize the inconvenience to the public due to disconnected utilities. The Contractor shall not disconnect any utility without prior approval of the affected utility and the Project Manager. Such utility shall then not be disconnected before 9:00 A.M. and service shall be restored by 4:00 P.M. of the same day. If the Contractor's operations require or cause utility service to be disconnected beyond the time limits stated above, the Contractor shall make arrangements suitable to the Project Manager to provide temporary utility service. Such temporary service shall be at Contractor's expense.
- 5.17.4. The City will not be responsible or liable for any delay or other impact to the Work caused by the acts or omissions of any utility or related agency.

5.18. Coordination with SACWSD.

The Contractor shall always coordinate its Work with SACWSD. If it becomes necessary to close portions of any water or sewer system due to construction operations, the Contractor will provide at least twenty-four (24) hours prior notice to SACWSD. SACWSD shall have authority to dictate requirements of the closure. It is the Contractor's responsibility to ensure continuity of the utilities.

5.19. Notification of Affected Utility & Property Owners.

- 5.19.1. The Contractor shall not excavate without first notifying all owners, operators, or association of owners and operators having underground facilities in the area of such excavation. Notice may be given in person, by telephone or in writing. Notice to an association is notice to each member of the association.
- 5.19.2. The Contractor shall contact the Utility Notification Center of Colorado at least forty- eight (48) hours before the start of any excavating.
- 5.19.3. The Contractor shall give such notice of the commencement, extent, and duration of the excavation work at least forty-eight (48) hours before beginning Work affecting the area.

- 5.19.4. If the Project affects fences, landscaping, mailboxes, driveways or other improvements, the Contractor shall notify the affected property owners or occupants IN WRITING at least forty-eight (48) hours before beginning Work. The Contractor shall cooperate with the owners or occupants to reduce inconvenience where reasonably possible.

5.20. Compliance with Laws; Licenses and Permits.

- 5.20.1. The Contractor shall perform all obligations under the Contract in strict compliance with all applicable federal, state, and municipal laws, rules, statues, charter provisions, ordinances, and regulations.
- 5.20.2. The Contractor and its employees, agents and Subcontractors, while performing the Work or while on City property for any reason during the Term, shall adhere to the City's policies applicable to City employees regarding drugs, alcohol and workplace violence.
- 5.20.3. The Contractor will obtain, at its cost, all licenses and permits required to do the Work by City, county, state, federal, or other applicable law or regulation. A Subcontractor shall also have the proper permits applicable to the Work to be performed by the Subcontractor.

5.21. Protection of Persons.

- 5.21.1. The Contractor is responsible for the health and safety of all persons on or at the Work site and shall take all necessary and reasonable precautions and actions to protect all such persons from injury, death, or loss.
- 5.21.2. The Contractor and any Subcontractor shall not require any laborer, mechanic or other person employed in performance of the Work to work in surroundings or under working conditions which are unsanitary, hazardous or dangerous to health or safety. The Contractor and all Subcontractors shall comply with all applicable safety rules and regulations adopted by the United States Department of Labor Occupational Safety and Health Administration (OSHA), the Industrial Commission of the State of Colorado or the City of Commerce City, whichever is most restrictive. The City assumes no duty to ensure that the Contractor follows the safety regulations issued by OSHA or the State of Colorado.
- 5.21.3. The Contractor shall provide all necessary protective devices and safety precautions. Such devices and precautions may include but are not limited to: posting of danger signs warning against hazards such as, but not limited to, hoists, well holes, elevator hatchways, scaffolding, openings, stairways, trip and fall hazards and falling materials; placement of warning flares; equipment back-up alarms; installation of barricades; promulgation and application of safety regulations and employment of safety personnel and guards. Signs will not be considered to be an adequate substitute for physical protective barriers. The costs of all protective devices and the planning and implementing of safety precautions are considered to be included in the Unit Prices, even if not specified.
- 5.21.4. If, in the opinion of the Project Manager, the Contractor has not supplied necessary and adequate barricades, warnings, or other safety devices, then the City may order additional devices and deduct the cost from the Contractor's payment. By taking such action, the City assumes no liability for the adequacy of such barricades, warnings or other safety devices.

- 5.21.5. For operations involving trenching, excavation or any other underground construction, the Contractor's attention is specially directed to and its work shall conform to the Construction Safety and Health Regulations, Part P Subparagraph 1926.6013-6016 by OSHA, latest revision.
- 5.21.6. The Contractor and all Subcontractors shall always, whether or not so specifically directed by the Project Manager, take necessary precautions to ensure the protection of the public. The Contractor shall furnish, erect, and maintain at its own expense all necessary precautions for the protection of the Work and safety of the public through and around its construction operations.
- 5.21.7. The Contractor shall make the provisions of this section a condition of each contract with any Subcontractor.

5.22. Protection of Property.

- 5.22.1. The Contractor shall continuously take all reasonable precautions to protect from damage, injury or loss, all or any part of the Work and all or any part of materials or equipment to be incorporated in the Work, whether in storage on or off the Work site, under the care, custody, control of the Contractor or any Subcontractor or Supplier. The Contractor shall repair or replace at its expense any such damage, injury or loss, except such as may be directly due to error in the Contract or caused by agents or employees of the City.
- 5.22.2. The Contractor shall provide and maintain at its expense all passageways, barricades, guard fences, lights, and other protection facilities required by public authority or local conditions.
- 5.22.3. The Contractor is responsible for protection of all public and private property on and adjacent to any site of the Work. The Contractor shall use every precaution necessary to prevent damage to curbs, sidewalks, driveways, trees, shrubs, sod, mailboxes, fences, and other private and public improvements. The Contractor shall protect carefully from disturbance or damage all land monuments and property markers until an authorized agent has witnessed or otherwise referenced their locations, and shall not remove them until directed.

5.23. Protection of Historical Sites.

When the Contractor's operations encounter remains of prehistoric peoples, dwelling sites or artifacts of historical or archeological significance, the Contractor shall temporarily discontinue such operations and immediately advise the Project Manager. The Project Manager will contact archeological authorities to determine the disposition of the items in question. When directed, the Contractor shall excavate the site in such a manner as to preserve the artifacts encountered and remove them for delivery to the custody of the proper authorities. Such excavation is considered, and paid for, as extra Work.

5.24. Responsibility to Repair.

- 5.24.1. When any direct or indirect damage or injury is done to any public or private property or utility by or on account of any act, omission, neglect or misconduct in the execution of the Work, the Contractor shall restore the damaged property at its own expense to a condition equal to or better than that existing before such damage or injury.

- 5.24.2. If any existing property is damaged in the Work as a result of Contractor's non-performance, the Contractor shall immediately notify the property owner. The Contractor shall not attempt to make repairs unless authorized in writing by the property owner or directed by the Project Manager. Written authorization from the owner to make repairs must be so worded as to save the City harmless from any responsibility whatsoever relative to the sufficiency of the repairs. The Contractor shall give the Project Manager a copy of the written authorization to make repairs.
- 5.24.3. The Contractor shall replace any materials and equipment lost, stolen, damaged or otherwise rendered useless during the performance of Work on the Project.
- 5.24.4. At the Contractor's cost, the City may undertake any such repair or replacement required by this section when the Contractor fails to do so within a reasonable time. The City may deduct any such cost from any payment due the Contract or may recover such costs from the Contractor or the Surety..

5.25. Hazardous & Explosive Materials & Substances.

- 5.25.1. If the Contractor encounters or discovers any hazardous materials or substances during its performance of the Work, it shall immediately take reasonable precautions concerning such hazardous material or substances and notify the Project Manager verbally and in writing of the existence of such materials or substances immediately upon discovery.
- 5.25.2. The Contractor shall exercise the utmost care and caution if the storage or use of hazardous materials or substances or explosives are required for the performance of the Work. Activities related to the purchase, storage, handling, use, removal, treatment, or disposal of such hazardous materials or substances or explosives shall at all times be the sole responsibility of the Contractor and shall be supervised and carried out by personnel properly qualified to perform such activities. However, under no circumstances shall activities requiring the purchase, storage, handling, use, removal, treatment or disposal of hazardous materials or substances or explosives be initiated without first notifying the Project Manager in writing of the proposed activity and receiving the Project Manager's written approval of such activity. The use, handling and storage of explosives will not be allowed on site unless they are required or explicitly permitted by the Specifications

5.26. Cleaning Up and Restoration.

- 5.26.1. The Contractor shall clean up and lawfully dispose of all refuse or scrap materials so the site presents a neat, orderly, and workmanlike appearance at all times. The Contractor shall follow all direction from the Project Manager as to the appearance of the site at all times.
- 5.26.2. The Contractor shall remove all mud or other materials tracked or otherwise deposited on any roadway daily or as directed by the Project Manager.
- 5.26.3. Upon completion of the Work, and before Final Inspection, the Contractor shall remove from the construction site and any occupied adjoining property all plants, buildings, refuse, unused materials, forming lumber, sanitary facilities, and any other materials and equipment that belong to the Contractor or any Subcontractors. The Contractor shall clean and replace any broken or scratched windows, clean and repair all surfaces, and clean and adjust all units of equipment that are part of the Work. Final

Payment will not be made until all cleanup is done to the Project Manager's satisfaction.

- 5.26.4. At the Contractor's cost, the City may clean up and restore the construction site satisfactorily when the Contractor fails to do so within two (2) days of the Project Manager's direction. The City may deduct any such cost from any payment due the Contract or may recover such costs from the Contractor or the Surety.

5.27. Pest & Vector Control.

The Contractor will be responsible for pest control and vector control at the Work site until Substantial Completion. All pest and vector control activities shall be conducted in compliance with applicable laws, including ordinances, statutes and regulations governing the handling, storage and application of pesticides or other hazardous materials and substances.

5.28. Traffic Control.

- 5.28.1. The Contractor shall arrange Work to disrupt traffic as little as possible. All traffic Control Devices used shall conform to the latest edition of the Manual of Uniform Traffic Control Devices (MUTCD). Except as otherwise permitted, two way traffic shall be maintained at all times in public roadways.
- 5.28.2. At least seven (7) days before starting any Work in City right-of-way, the Contractor shall submit a detailed traffic control plan for review from the Public Works Department, with a copy to the Police Department. The approval shall establish the requirements for closures related to the number of lanes and time of day lanes or streets may be closed in accordance with the MUTCD and other applicable criteria or regulations. The Traffic Control Plan (TC Plan) shall include the name of the Contractor, the name and phone number of the person responsible for the traffic control, the date for beginning and ending construction activity and hours of operation expected. The TC Plan should show the widths of streets involved, traffic lanes, the size and location of the Work area with distances from the curb, distance to the nearest intersection, detours, parking areas, access to private property, and the type and location of traffic control devices. No changes to the TC Plan shall be permitted without prior approval by the Public Works Director.
- 5.28.3. The Contractor, at its cost, shall furnish and maintain all necessary signs, barricades, lights, and flaggers necessary to control traffic and provide for safety of the public, all in compliance with the MUTCD with subsequent revisions and additions, and to the satisfaction of the Public Works Director. No construction signs shall be placed on sidewalks unless construction is actually taking place on the sidewalk. During evening hours and when not in use, all signs shall be turned away from traffic and moved at least eight (8) feet away from the edge of the nearest traveled way.
- 5.28.4. Whenever a police officer is necessary for traffic control, the Contractor shall hire and pay a uniformed off-duty police officer with authority in the City to direct traffic. The police department will determine the rate of pay for the officers.
- 5.28.5. The Contractor shall make its Traffic Control plans in concurrence with any Traffic Control requirements that may be specifically stated in the Special Conditions.
- 5.28.6. The City may impose a price reduction charge for any recurrence of an incident under

the TC Plan, after notification by the Project Manager, according to the following schedule. The price reduction charge will not be considered a penalty, but will be a price reduction for failure to perform traffic control in compliance with the Contract. For purposes of this section, an "incident" is any violation of the TC Plan lasting up to thirty (30) minutes; each successive or cumulative 30-minute period in violation of the TC Plan will be deemed a separate incident, as determined by the Project Manager.

Incident	Price Reduction Charge
First	None – Notice from Project Manager
Second	\$150.00
Third	\$300.00
Fourth	\$600.00
Subsequent	\$1,200.00

5.29. Sanitary Regulations.

- 5.29.1. The Contractor is responsible for providing proper health and sanitation facilities for its employees, in compliance with any rules and regulations of the Colorado Department of Public Health and Environment or any other agencies having jurisdiction.
- 5.29.2. The Contractor shall always provide an abundant supply of safe drinking water for its employees and shall give orders against the drinking of any water known to be unsafe in the vicinity of the Project.
- 5.29.3. At convenient places, the Contractor shall provide fly-proof outside toilets which are to be maintained in a sanitary condition. Toilets shall not be permitted in any reservoir area and shall not be permitted where they may pollute a water supply.
- 5.29.4. The Contractor shall provide and empty daily a thirty (30) gallon or larger trash can near each toilet.

5.30. Pollution Control.

- 5.30.1. The Contractor shall comply with all applicable Federal and State laws, orders, and regulations concerning the control, prevention, and abatement of water pollution and air pollution in all operations pertaining to the Contract whether on right-of-way provided by the City or elsewhere.
- 5.30.2. The Contractor shall use construction methods that prevent release, entrance or accidental spillage of solid matter, contaminants, debris, and other objectionable pollutants and wastes including, but not restricted to refuse, garbage, cement, concrete, sewage effluent, industrial waste, radioactive substances, oil and other petroleum products, aggregate processing tailings, mineral salts, and thermal pollution. Non-regulated solid wastes shall be disposed of by methods approved under applicable laws and regulations, including, the Resource Conservation and Recovery Act (RCRA), Subtitle D, as administered by Colorado and local Health Departments and the EPA.
- 5.30.3. Contaminated and hazardous materials are regulated by RCRA, Subtitles C and D. The Contractor shall notify the Colorado Department of Public Health and Environment, local health departments, and local fire departments if suspect materials are encountered.

- 5.30.4. The Contractor shall utilize methods and devices that are reasonably available to control, prevent, and otherwise minimize atmospheric emissions or discharges of air contaminants including dust in its construction activities and operation of equipment.
- 5.30.5. The Contractor shall not emit dust into the atmosphere during any operations, including but not limited to: grading; excavating; manufacturing, handling or storing of aggregates; trenching; or cement or pozzolans. The Contractor shall use the necessary methods and equipment to collect, deposit, and prevent dust from its operations from damaging crops, orchards, fields or dwellings or causing a nuisance to persons. The Contractor is liable for any damage resulting from dust.
- 5.30.6. The Contractor may not operate equipment and vehicles with excessive emission of exhaust gases due to improper mechanical adjustments, or other inefficient operating conditions, until repairs or adjustments are made.
- 5.30.7. Burning trash, rubbish, trees, brush or other combustible construction materials is not permitted unless the Contractor has obtained a valid burning permit issued by the Tri-County District Health Department or successor agency. Any such burning shall be conducted in accordance with permit requirements.
- 5.30.8. De-watering for structure foundations or earthwork operations adjacent to or encroaching on lakes, streams or watercourses shall be done in a manner which prevents muddy water and eroded materials from entering the lakes, streams or watercourses, by construction of intercepting ditches, bypass channels, barriers, settling ponds or by other approved means. Excavated materials may not be deposited or stored in or alongside lakes or watercourses where they can be washed away by high water or storm runoff.
- 5.30.9. The Contractor will not allow wastewater from aggregate processing, concrete batching or other construction operations to enter lakes, streams, watercourses or other surface waters without turbidity control methods such as settling ponds, gravel-filter entrapment dikes, approved flocculation processes that are not harmful to fish, recirculation systems for washing of aggregates or other approved methods. Any wastewaters discharged into surface waters shall conform to applicable discharge standards of any agency having jurisdiction over the discharge, including the Colorado Department of Public Health and Environment and any federal agency.

5.31. Staging and Storage.

- 5.31.1. With the Project Manager's approval, the Contractor may obtain sites of his/her choosing for equipment storage and/or materials stockpiling. The Contractor shall not occupy storage sites without prior written approval by the Project Manager. A list of such sites showing the proposed truck route for ingress and egress for each site shall be submitted to the Project Manager for approval at least five (5) days prior to intended use.
- 5.31.2. For all sites approved and used, Contractor shall be responsible for the following:
 - a) Obtaining prior written permission of the owner. A copy of this permission shall be provided to the City;
 - b) Keeping stockpiles and equipment confined within the approved area and in accordance with applicable erosion control requirements;

- c) Providing security for materials and equipment at the site;
- d) Providing for public safety at the site;
- e) Keeping access roads clean and in good condition and in accordance to the City's Erosion Control requirements; and
- f) At Contractor's sole cost expense, restoring the site to its original or better condition at the completion of the Work.

5.32. Salvage.

Items removed by Contractor shall become the property of Contractor unless other disposition or repositioning is required by the Contract Documents or needed for the Work. The Contractor may reuse such items elsewhere or on other contracts, sell such items with proceeds of said sale becoming the property of Contractor or otherwise dispose of such items from the site. Items removed by the Contractor that do not have any salvage value are to be disposed of by Contractor at an approved dump at the Contractor's expense.

ARTICLE 6 CITY'S GENERAL RESPONSIBILITIES

6.1. City Performance.

- 6.1.1. The City will furnish the data, perform acts, and make payments as required by the Contract Documents.
- 6.1.2. The City shall not supervise, direct, or have authority or control over, nor be responsible for, the Contractor's means, methods, techniques, sequences, or procedures of construction or safety precautions, or any failure of the Contractor to comply with any laws or regulations applicable to the Work. The City will not be responsible for the Contractor's failure to perform or furnish the Work in accordance with the Contract Documents.
- 6.1.3. The City's promise to pay for the Work that the Contractor promises to perform is limited by the City's Charter and its ordinances. A payment obligation of the City under this Contract, whether direct or contingent, shall extend only to funds appropriated by the City Council for the purpose of the Contract, encumbered for the purpose of the Contract and paid into the City or otherwise lawfully made available by the City. Unless authorized by law, (i) the City does not by this Contract irrevocably pledge present cash reserves for payments in future fiscal years, and (ii) this Contract is not intended to create a multiple-fiscal year direct or indirect debt or financial obligation of the City. Other limitations are found in the law that the Contractor is presumed to know. Three such limitations on payment are listed below:
 - a) Under no circumstances will the City be liable for any extra Work that has not been authorized by a properly executed Change Order or Field Order.
 - b) No Change Order, Field Order, or other form of directive to the Contractor shall be issued, and no such order or directive shall be binding if issued, if: (i) it would directly cause the aggregate amount payable under the Contract to exceed the amount appropriated or otherwise lawfully made available for the Contract, or (ii) it would require the Contractor to perform additional compensable work which would cause the aggregate amount payable to exceed such appropriated or provided amount.
 - c) It shall be the Contractor's responsibility to verify that the amounts already

appropriated or otherwise made available for the Contract are sufficient to cover the entire costs of the Work. Any work undertaken or performed in excess of the amount appropriated or otherwise made available is undertaken or performed in violation of the terms of the Contract, without the proper authorization, and at the Contractor's own risk.

- 6.1.4. Any limitations on the sources of funding for payments made under the Contract are stated in the Contract Documents.

6.2. Project Manager.

- 6.2.1. The Project Manager is designated by the City to exercise all authority on its behalf under the Contract and to see that the Project is completed according to the Contract Documents. The Project Manager may be changed by written notice to the Contractor.
- 6.2.2. The Project Manager may assume exclusive control of the performance of the Contractor in the case of non-performance or if there is an imminent threat to life or safety of persons or property.
- 6.2.3. The Project Manager will furnish all explanations, directions, stakes or markers, and inspections necessary to carry out and complete the Project. No inspection, explanation or direction by the Project Manager shall be deemed authority for Contractor to deviate from the requirement that the Work be performed in accord with the Contract Documents.

6.3. Right to Bar Persons from the Work and Site.

The City reserves the right to bar any person, including employees of the Contractor and Subcontractors, from the Work site by order of the Project Manager. This shall not be treated as a request for the employee's termination but a request that the employee not be assigned to work on the City Work site. No increase in contract time or price is authorized as a result of the City's exercise of this section.

6.4. Access to Work.

- 6.4.1. The City, its representatives, and participating federal or state agencies and other public authorities having jurisdiction established by law shall have access to the Project and Work site at any time for any purposes, including without limitation inspection, sampling, and testing. The Contractor shall provide proper facilities for access to the Project.
- 6.4.2. Access means wherever and whenever the Work is in manufacture, preparation or progress and includes access to payrolls, records of personnel not protected from disclosure by law, invoices of materials, terms and conditions of sale of materials and equipment to be incorporated in the Project, files, records, books, correspondence, instructions, Drawings, receipts, subcontracts, purchase orders, vouchers, memoranda and any other relevant data and records relating to the Contract.
- 6.4.3. The City may, at reasonable times, inspect the part of the plant, place of business or worksite of the Contractor or Subcontractor at any tier that is pertinent to the performance of the Contract.

6.5. Inspection.

- 6.5.1. The City shall appoint Inspectors to inspect the Project. Inspection may extend to all or any part of the Work. Inspectors are not authorized to alter any Contract Documents or to delay the fulfillment of the Contract by failure to inspect materials and Work with reasonable promptness. Inspectors are not authorized to act as foreman for the Contractor.
- 6.5.2. Inspectors may perform any tests and observe the Work to determine whether or not designs, materials used, manufacturing, and construction processes and methods applied, and equipment installed satisfy the requirements of the Contract Documents and the Contractor's warranties and guarantees.
- 6.5.3. Inspectors assigned to the Work by the City are authorized to reject any Work, any materials, or any component of the Work and to suspend any Work that is not being done as required or specified in the Contract Documents. Such rejection or suspension will be confirmed by the Project Manager in writing to the Contractor
- 6.5.4. The Contractor shall give the Project Manager due and timely notice of readiness when the Project is to be inspected, tested, or approved by someone other than the Inspector. The Contractor shall give the Project Manager required certificates of inspection, testing, or approval. Inspection, tests, or approvals by the Project Manager or others do not relieve the Contractor from its obligations to perform the Work according to the requirements of the Contract.
- 6.5.5. If the Project Manager considers it necessary or advisable that previously completed or covered Work be inspected or tested, the Contractor shall uncover, expose or otherwise make the Work available to the Project Manager at the Contractor's expense for inspection and testing. The Contractor shall furnish all tools, labor, material, and equipment necessary to make the Work available. If the Project Manager finds the Work defective, the Contractor shall pay for the cost of satisfactory reconstruction and making the Work available. However, if the Work is not found defective, the Contractor will be allowed an increase in the Contract Price and/or an extension of the Contract Time for costs and time directly attributable to making the Work available and for reconstruction unless covered by the Contractor before any required inspection hold point.
- 6.5.6. If the Contractor's operations require inspecting, testing or surveying to be done outside normal working hours (7 a.m. to 5 p.m.) or on weekends or City holidays, the cost of such overtime shall be at the Contractor's expense. The fee charged shall not exceed fifty dollars (\$50) and shall be charged "portal to portal" from the Inspector's workplace.
- 6.5.7. Inspections shall not be construed to relieve the Contractor of quality control responsibilities or full compliance with the Contract Documents.

ARTICLE 7 SUSPENSION OF WORK

7.1. General.

- 7.1.1. The City may suspend all or any part of the Work by written order signed by the Project Manager, without invalidating the Contract, for such period or periods as it may deem necessary due to:
- a) Any reason for the convenience of the City, with or without cause, including but not limited to the availability of funding for the Project;
 - b) An order from a state or federal court or administrative agency; or
 - c) The Contractor's failure to perform any provision of the Contract Documents.
- 7.1.2. Upon receipt from the Project Manager of an order to suspend the Work, the Contractor shall, within three (3) days, submit a suspension plan to the Project Manager for acceptance. The plan shall describe how the Contractor will store all materials in a manner so that the materials will not become an obstruction or become damaged in any way, what cost effective methods it will employ to prevent damage to or deterioration of the Work and otherwise protect the Work, how suitable drainage will be provided, what temporary structures will be necessary, and how the Contractor will prepare for resuming the Work for the least possible remobilization cost. After the plan is accepted, the Contractor shall implement it in accordance with instructions received from the Project Manager.
- 7.1.3. Under no circumstance shall a suspension absolve the Contractor or the Contractor's sureties of the duties and responsibilities guaranteed under the Bonds.
- 7.1.4. The Contractor shall again proceed with the Work when it is ordered to do so in writing by the Project Manager.
- 7.1.5. Upon the resumption of the Work for all suspensions not involving the Contractor's failure to perform in accord with the Contract Documents, adjustment of Contract Time, if appropriate, will be made in accordance with these General Conditions. Adjustment of the Contract Price, if any, will be within the City's sole discretion and shall not in any event, exceed the cost of the extra work resulting from such suspension. Such cost, if any, shall be determined in accordance with these General Conditions.

7.2. Suspension of Work for the City's Convenience.

- 7.2.1. Upon decision to suspend the Work or any part of the Work for the City's convenience, the order of suspension will extend the Contract Time for the number of days of such suspension if all Work is suspended. If the suspension applies to only a part of the Work, a time extension will not be authorized until the partial suspension has run and its effect on the entire Contract can be evaluated. In all cases of suspension for the City's convenience, the costs to the Contractor will be determined in accordance with these General Conditions.
- 7.2.2. Upon order of such suspension, the Contractor shall immediately begin to perform in a manner designed to minimize the costs of protecting the Work and maintaining it in a condition which will permit its resumption for the least possible remobilization cost.

7.3. Suspension of Work Due to Order of City, State, or Federal Court or Agency.

The order of suspension will identify the court or agency order which caused the suspension and will extend the Contract by the amount of time specified by the court or agency order. If the order causes suspension for an indefinite period of time and as a

result a time extension cannot be established, the order of suspension will also be for an indefinite period of time. If the order is issued because of acts or omissions of the Contractor, the Contractor shall not be entitled to a time extension or payment for any additional costs it incurs.

7.4. Suspension of Work Resulting from Contractor's Failure to Perform.

If a suspension order results from the Contractor's failure to satisfactorily perform any of the provisions of the Contract, including but not limited to faulty workmanship, safety concerns, improper or inadequate manpower, equipment, supplies or supervision, or failure to perform the Work in a timely manner, the order will identify the reason, or reasons, for the order. In this circumstance, no time extension will be authorized for the Contractor and any costs to the Contractor resulting from such suspension order will not be reimbursed by the City. A suspension order issued under these circumstances will remain in effect until the Contractor has removed or corrected the grounds for the suspension, if applicable, or the order requiring such suspension expires by its terms

ARTICLE 8 WARRANTIES AND GUARANTEES

8.1. The Contractor and its Surety are jointly responsible for maintenance and satisfactory operation of all Work performed under the Contract for a period of one (1) year following the later of Notice of Substantial Completion or until warranty work is fully satisfied. Neither the Contractor nor Surety is liable for any failure resulting from the City's neglect or improper operation of facilities or the act of a third party for whom the Contractor is not responsible.

8.2. The Contractor and its Surety are responsible for the prompt and satisfactory repair or replacement of any Work, materials or equipment which is found defective during this period (including design costs), provided any failure results directly or indirectly from faulty workmanship or negligence by the Contractor or any Subcontractor or from faulty manufacturing or from faulty erection or improper handling of materials or equipment furnished or installed by the Contractor or any Subcontractor. The Contractor and its Surety shall promptly replace any materials and re-perform any portion of the Work found to be defective within this period in accordance with the Contract and without expense to the City.

8.3. Nothing in this section shall limit the City's right to seek recovery for latent defects that are not observable until after the warranty or guarantee periods have run.

8.4. All Subcontractors', manufacturers', and Suppliers' warranties and guarantees, express or implied, for any part of the Work and any materials used in the Work shall be obtained and enforced by the Contractor for the benefit of the City whether or not these warranties and guarantees have been assigned or otherwise transferred to the City. The Contractor shall assign or transfer such warranties and guarantees (including those of any longer term) to the City if the City requests the Contractor to do so, but such transfer shall not affect the Contractor's obligation to enforce such warranties and guarantees.

8.5. Performance During Warranty Period.

8.5.1. The Project Manager will notify the Contractor of defective Work that is found to be defective and fails to satisfy the warranties and guarantees described in this article, or elsewhere in the Contract Documents, and the Contractor shall, within ten (10) days or such longer time as may be requested and set forth in the notice, commence the

repair, replacement, or correction of the defective Work. If the Contractor fails to complete such Work within a reasonable period, the City may make the repairs or replacements at the expense of the Contractor. If the City determines that immediate action to make repairs, replacements or other corrections is necessary because of emergency conditions or to prevent further loss or damage, the City may proceed without notice to the Contractor, but at the expense of the Contractor.

- 8.5.2. If the Contractor does not proceed with the correction of such defective Work within the time fixed by written notice from the Project Manager, or if an emergency condition exists, the City may remove and store any defective materials or equipment at the expense of the Contractor. If the Contractor does not pay the cost of the removal and storage within ten (10) days thereafter, the City may, upon ten (10) additional days' written notice, sell the stored Work at auction.
- 8.5.3. If the proceeds of sale do not cover all costs that the City has incurred and which the Contractor should have borne, the difference shall be charged to the Contractor and the Contractor and its surety shall be liable for and pay such difference to the City.
- 8.5.4. If the Contractor does not agree that the Work is defective or the defective Work is its responsibility and if no emergency condition exists, the Contractor may request review, in writing, of the Project Manager's decision in accordance with these General Conditions. If such review is not requested within ten (10) days of the notification of defective Work, the Contractor shall have waived the right to contest its responsibility for the correction of the defective Work. Under emergency conditions, the Contractor shall immediately correct the alleged defective Work, and the question of responsibility for the expense shall be determined by the Project Manager, subject to the right of the Contractor to seek review within ten (10) days of the City's notice allocating responsibility for the expense.
- 8.5.5. Should the City claim by written communication sent or mailed before the warranty or guarantee period expires that certain defective Work exists and that it requires repair or replacement, the warranty and guarantee period shall be automatically extended for as long as the defective Work exists.

ARTICLE 9 CHANGES

9.1. General.

- 9.1.1. The Contractor shall perform the Work, as changed by any Change Order, as if originally specified. All changes shall be accomplished by either a written Change Order or a written Field Order issued in accordance with these General Conditions. If a Field Order is used, a Change Order will be executed when the terms of the change are agreed upon.
- 9.1.2. Changes to the Contract Price and Contract Time are authorized only by Change Orders.
- 9.1.3. Any plan of action, method of work, or construction procedure suggested orally or in writing to the Contractor by any City employee, agent or representative, which is not set out in Change Orders or Field Orders issued in accordance with the Contract Documents, if adopted or followed by the Contractor in whole or in part, shall be performed at the Contractor's sole risk and responsibility.
- 9.1.4. The Contractor may not treat any order, statement or conduct of the Project Manager as a change under this article nor become entitled to an equitable adjustment in the

Contract Price or Contract Time except as provided in this article.

9.1.5. Claims for changes in the Contract Price or Contract Time of Performance will not be considered after the Final Payment has been made.

9.1.6. Change Orders involving an increase in the Contract Price must be authorized as follows:

- a) Up to \$5,000 – Division Manager or above (or other as delegated by Division Manager)
- b) Up to \$50,000.00 – Department Director or above (or other as delegated by Department Manager)
- c) Up to \$250,000.00 – City Manager
- d) Over \$250,000.00 – City Council

9.2. City Change Request.

9.2.1. The City may, without notification to any Surety, require the Contractor to perform additive or deductive changes to the Work within the general scope of the Project without invalidating the Contract or any Bond.

9.2.2. When the City desires to initiate a change, the Project Manager will issue a change request informing the Contractor of the proposed change in the Work, and requesting the Contractor's detailed price proposal for such change. The Contractor, at no expense to the City and within the time period specified in the Change Request, shall provide the Project Manager with a complete and itemized proposal for the change in the Work, which shall include the estimated increase or decrease in the Contract Price or Contract Time. Such increase or decrease shall be based on the criteria and methods described in these General Conditions. The Contractor shall be responsible for any delays in the Work and any additional costs to the City caused by the Contractor's failure to submit a complete price proposal within the time provided. The Contractor shall participate with the City in prompt joint analysis and negotiations to finalize a Change Order. The issuance of a Change Request by the City is not a prerequisite to the issuance of a Field Order.

9.3. Field Orders.

9.3.1. The Project Manager may make changes in the details of the Project at any time, by issuing a Field Order. Upon receipt of a Field Order, the Contractor shall promptly sign the Field Order and return it to the Project Manager, and shall promptly proceed with performing the change in the Work.

9.3.2. A Field Order may be used when:

- a) The City determines that the Contractor must proceed immediately to perform a change in the Work in order to avoid an adverse impact on the schedule or other work, or to avoid or correct a situation where the health or safety of persons may be affected, and sufficient time is not available to negotiate a Change Order; or
- b) The City and Contractor have not completed their negotiation and reached agreement on all of the terms of a Change Order, but the City requires the Contractor to proceed without such agreement.

9.3.3. If the Contractor believes that such Field Order entitles it to a change in Contract Price or Contract Time, or both, the Contractor shall give the Project Manager written notice within five (5) days after the receipt of the Field Order. Within twenty (20) days after receiving the Field Order, the Contractor shall provide the Project Manager with a complete and itemized proposal that includes the estimated increase or decrease in the Contract Price or Contract Time, or both, attributable to the changes based on the criteria and methods described in these General Conditions. The Contractor shall be responsible for delays to the Work and any additional costs incurred by the City caused by its failure to submit complete pricing information within the time provided above.

9.3.4. Time and Materials.

- a) If the maximum cost of the change in the Work to be performed under a Field Order has not been agreed upon and reduced to writing in the actual Field Order, or if such change is not fully described under a Unit Price set forth in the Contract Documents or the Field Order, the Contractor shall proceed with such Work on a time and materials basis.
- b) Whenever Work is performed on a time and materials basis, the Contractor shall fully document all costs associated with such Work. Beginning with the first day such Work is performed and on a daily basis thereafter, the Contractor shall submit to the Project Manager a daily itemization of all such costs in such form as the Project Manager may require.
- c) The final Contract adjustment for Field Order changes in the Work performed on a time and materials basis shall be calculated in accordance with these General Conditions.

9.3.5. When the City and the Contractor reach agreement on an adjustment to the Contract Price or Contract Time, or both as appropriate, such agreement shall be promptly executed as a Change Order. If the City requires Contractor to perform additional compensable work under a Field Order prior to executing a Change Order, the Contractor shall submit its costs to perform the work as periodically completed in its monthly application for payment, and City shall reimburse such costs, subject to retainage and any applicable withholding. In no instance shall the City be required to periodically reimburse Contractor for such additional compensable work prior to Contractor submitting to City an estimate of the cost of the additional compensable work to be performed.

9.4. Contractor Change Requests.

9.4.1. If the Contractor: (i) receives any instructions, interpretations or directives which it believes are at variance with the Contract Documents or would require the Contractor to accelerate or decelerate the Work; or (ii) identifies what it believes are errors or omissions of any kind, including design errors or omissions, in the Drawings or Specifications; or (iii) encounters a differing site condition; or (iv) is delayed in performing the Work; or (v) becomes aware of any other matter or circumstance that the Contractor believes might require a change in the Contract Documents, Contract Time, or Contract Price, the Contractor shall give the Project Manager prompt written notice of such matter and request a Change Order in a document identified as a "Contractor Change Request."

9.4.2. Following submission of a Contractor Change Request, the Contractor shall diligently continue performance of the Contract to the maximum extent possible.

9.4.3. All Contractor Change Requests shall be dated, numbered sequentially, and shall describe the action or event that the Contractor believes may require the issuance of a Change Order. The Contractor shall also provide a description of possible Contractor actions or solutions to minimize the cost of the Contractor Change Request and, when possible, provide an estimate of the adjustment in the Contract Time and Contract Price which the Contractor believes is appropriate.

9.4.4. Time Requirements.

- a) With respect to orders, instructions, directives, interpretations, determinations, or the discovery of any errors or omissions in the Contract Documents, a Contractor Change Request shall be submitted before the Contractor acts on them, but in no event more than five (5) days after they have been, or reasonably should have been, received or discovered.
- b) With respect to any differing site conditions, a Contractor Change Request shall be submitted before the conditions are disturbed, but in no event more than five (5) days after the conditions are first discovered or reasonably should have first been discovered.
- c) With respect to delays, as set out in these General Conditions, a Contractor Change Request shall be submitted as soon as the Contractor becomes aware, or reasonably should have become aware, of the delay, but in no event more than five (5) days therefrom.
- d) With respect to any other matter or circumstance that the Contractor believes would require a change, a Contractor Change Request shall be submitted as soon as the Contractor reasonably has knowledge of the matter or circumstance, but in no event more than five (5) days after the Contractor becomes aware, or reasonably should have become aware, of such circumstance or matter.

9.4.5. Submittal Requirements and Waiver of Claims.

- a) If the Contractor does not submit a Contractor Change Request within the time required by these General Conditions, any action by the Contractor related to such order, direction, instruction, interpretation, determination, design error or omission, or other matter, including delays or differing site conditions, will not be considered by the City as a change to the Work and the Contractor waives any claim for an adjustment on the Contract Price or the Contract Time.
- b) The Contractor shall, within ten (10) days after submitting a Contractor Change Request, provide the Project Manager with a complete and itemized proposal that sets out as specifically as practicable the requested adjustments to Contract Price, Contract Time, or other Contract provisions, and contains the other information described in these General Conditions.
- c) The proposal shall also contain a detailed explanation, citing all applicable provisions in the Contract Documents that support the Contractor Change Request. If the Contractor does not submit its itemized proposal for a Change Order within the time described above or within such extension that the Project Manager, in his or her discretion may have granted in writing, the Contractor waives any claim for an adjustment in the Contract Price or Contract Time arising out of the act or event giving rise to or necessitating a Contractor Change Request.
- d) The Contractor shall furnish, upon request, all additional information and data that the Project Manager determines is needed to assist the City in evaluating and

resolving the Contractor Change Request through negotiation. The Contractor shall give the City access to its books, correspondence, records, electronic data bases and files, and other materials relating to the work described in the Contractor Change Request, shall require its Subcontractors and Suppliers to provide the City with such access, and shall make its personnel and that of its Subcontractors and Suppliers available to discuss and answer cost, schedule, and other questions related to such request. Clear and legible copies of all necessary supporting records shall be provided to the City at no cost. Failure to submit requested information may be a basis for denial of the request.

9.4.6. Specific Provisions for Delay-Based Contractor Change Requests.

If the Contractor Change Request is based in whole or in part on a delay of any kind or nature, the complete itemized proposal shall include the following information in addition to all other required information:

- a) The date, nature, and circumstances of each event regarded as a cause of the delay;
- b) The names of all individuals acting on behalf of the City who are known or believed by the Contractor to have direct knowledge of the delay;
- c) If the Contractor claims acceleration costs of scheduled performance or delivery, the basis upon which acceleration arose;
- d) The identification of any documents and the substance of any oral communications known to the Contractor which substantiate, refute, or concern such delay;
- e) A Critical Path Method (CPM) schedule corrected to reflect actual performance, showing delay impacts as separate tasks and Contractor's mitigation of such impacts; and
- f) The specific elements of Contract performance for which the Contractor may seek an equitable adjustment, including:
 - 1) Identification of each Contract or schedule line item that has been or may be affected by such delay;
 - 2) To the extent practicable, identification of the delay and disruption in the manner and sequence of performance, and the effect on continued performance, that have been or may be caused by such delay;
 - 3) Identification of labor, materials, or both, or other cost items including overhead and Subcontractor costs, that have been or may be added, deleted, or wasted by such delay;
 - 4) A statement that the Contractor is maintaining records by some generally accepted accounting procedure that allows the separately identifiable direct costs due to the delay, and those not incurred as a result of the delay, to be readily identified and segregated; and
 - 5) Estimates of the necessary adjustments to Contract Price, Contract Time and any other Contract provisions affected by the delay.

9.4.7. Determination by Project Manager.

- a) The Project Manager shall respond in writing to any timely Contractor Change Request within ten (10) days of receipt of the complete and itemized proposal in support of the request. Failure of the Project Manager to respond within such time period shall be deemed a denial of the Contractor Change Request unless the

Project Manager notifies the Contractor that additional time is necessary to review the Contractor Change Request.

- b) If a Contractor Change Request is denied by the Project Manager, in whole or in part, any claim for an increase in the Contract Price or Contract Time arising out of the act or event described in the Contractor Change Request is waived unless the Contractor timely submits a protest or dispute in accordance with these General Conditions.

ARTICLE 10 ADJUSTMENT TO CONTRACT PRICE

10.1. Contract Price Adjustments.

All adjustments to the Contract Price shall be determined by using one or more of the following methods in descending order:

- 10.1.1. Unit Prices (as stated in the Contract Documents or subsequently agreed upon) multiplied by final verified quantities of work performed and subject to the requirements of paragraph 10.7 below;
- 10.1.2. A negotiated lump sum. If requested by the City, the Contractor shall promptly provide itemized and sufficient substantiating data, including calculations, measurements, cost records, production rates, equipment types and capacity, labor costs by craft and other information that the City may reasonably require the Contractor to produce in order to permit the City to evaluate any lump sum Contractor Change Request. In pricing such proposals, the Contractor shall include estimates of the type of costs described in this article
- 10.1.3. Costs as determined in a manner previously agreed upon by the Parties, which include markups that do not exceed those described in this article.
- 10.1.4. Time and Material costs as determined in the manner described in this article. These amounts may be reduced where necessary to take into account the cost of base Work, Work included in approved Change Orders, Work described in other Field Orders, idle time for workers and/or equipment when Work could have been performed in other locations or when the number of workers or amount of equipment provided exceeded the number or amount required to perform the Work, unsatisfactory Work, or Work that may be or was performed concurrently with the changed Work and which cannot be easily segregated from the changed Work.

10.2. Calculation of the Contract Adjustment.

In no event shall the charge or credit to the City associated with any change exceed the sum of the following:

- 10.2.1. Direct Labor. The actual net, direct increase or decrease in the cost of the Contractor's labor. Such cost shall include only the cost associated with the workers who actually perform the changed Work. The cost of supervision, management and field or office overhead shall not be included or calculated as a direct labor cost. For shop work, the direct labor cost shall include only those workers who work directly on the item being manufactured or the actual operators of the equipment being used to handle the items being manufactured.
- 10.2.2. Labor Burden. Contractor's actual costs for worker's compensation and liability insurance, payroll taxes, social security and employees' fringe benefits (including employer paid health insurance) imposed on the basis of payrolls, and any other benefits provided to employees (including under any applicable collective bargaining

agreement). This burden must reflect the variability of some burdens, i.e., social security. The burden shall be itemized and include all small tools and miscellaneous supplies. The total labor burden for such small tools shall not exceed two percent (2%) of the Direct Labor cost.

10.2.3. Direct Material, Supplies, Installed Equipment. The actual net, direct cost of materials, supplies and equipment incorporated into or consumed by the Work. If actual costs are not available, this cost shall be the lowest commercially available price including all discounts, rebates, shipping and restocking charges, and applicable taxes. Such cost shall be based on buying the material, supplies and equipment in the largest practical quantity to receive quantity discounts.

10.2.4. Equipment Costs. Without markup or operator, the lesser of (i) the actual net cost to the Contractor of owned or rented equipment, other than small tools; or (ii) the rental rate for such equipment as determined by using the following method(s):

a) Equipment rental rates listed in the appropriate rental rate book currently in use by CDOT. If an item of equipment does not appear in the rental rate book currently in use by CDOT, the rental rates published by the Associated Equipment Dealers may be used as a basis for negotiating a rental rate for a particular piece of equipment. The Contractor shall provide all information necessary to determine the appropriate rental rate at the time the equipment is brought on the job. This shall include, but not be limited to, type, description, make, year, model, series, serial number, fuel type, transmission, wheel combination, GVW, capacity and equipment owner.

b) Rental equipment costs shall be determined using actual invoiced rates, less all discounts for basic equipment rental.

c) Mobilization/demobilization costs will be paid if the equipment is mobilized for Work described in a Change Order and is not otherwise to be mobilized or demobilized for the Work at the time. If the equipment is also used on Base Contract Work, no mobilization or demobilization cost will be paid. Mobilization/demobilization costs will be based on using the least expensive means to mobilize or demobilize. Equipment shall be obtained from the nearest available source. When the least expensive methods are used, the costs shown in the actual invoice will be the basis for pricing.

10.2.5. Mark Up For Overhead And Profit.

The Contractor or Subcontractor of any tier who actually performs the Work shall be entitled to a reasonable markup of no more than ten percent (10%) on the actual costs for Direct Labor, Labor Burden, Direct Material, Supplies, Installed Equipment, and Equipment Costs, as described in this article. Bonds and insurance are compensated at direct cost without markup

10.2.6. Bonds, Insurance, Permits And Taxes.

The actual increases or decreases in the cost of premiums for bonds and insurance, permit fees, and sales, use or similar taxes related to the Work.

10.3. Totals as Equitable Adjustment.

The Contractor agrees that the total of the above items constitute an equitable adjustment for any and all costs or damages resulting from a change.

10.4. No Equitable Adjustment for Obstruction by Contractor.

No equitable adjustment shall be made as a result of costs resulting from any act, hindrance, obstacle, obstruction, interference, or omission of the Contractor, its Subcontractors, Suppliers, or Surety, or any other entity or individual acting on behalf of the Contractor, or any Subcontractor, Supplier, or Surety.

10.5. Calculation of Certain Equitable Adjustments.

- 10.5.1. In case of delay in completion of the entire Contract due to drawings, designs or specifications that are defective and for which the City is responsible, the equitable adjustment for delays or costs incurred prior to notification to the City of such defect shall only include the extra cost and time reasonably incurred by the Contractor in attempting to comply with the defective drawings, designs or specifications before the Contractor identified, or reasonably should have identified, such defect.
- 10.5.2. An equitable adjustment shall not include increased costs for delay resulting from the Contractor's failure to continue performance during determination of any Contractor Change Request or claim.

10.6. Price Reductions for Defective Cost or Pricing Data.

If it is later determined that pricing adjustments to the Contract were not correct due to incomplete or inaccurate pricing data by the Contractor or any Subcontractor or Supplier or that lower prices were reasonably available, the price shall be reduced accordingly and the Contract Price modified by an appropriate Change Order.

10.7. Variations in Estimated Quantities.

- 10.7.1. Where the quantity of a Unit Price pay item in the Contract is an estimated quantity and where the actual quantity of such pay item varies more than 25% below the estimated quantity stated in the Contract, the Contractor shall make an equitable adjustment in the Contract Price, upon demand of the City. The Contract Price adjustment will be based upon any decrease in costs due solely to the variation below 75% of the estimated quantity.
- 10.7.2. Where the quantity of a Unit Price pay item in the Contract is an estimated quantity and the actual quantity of such pay item is more than 25% above the estimated quantity in the Contract, the City may elect to terminate the Contract for convenience or issue a Change Order to adjust the Contract Price. The Contract Price adjustment will be based upon any increase in costs due solely to the variation above 125% of the estimated quantity.
- 10.7.3. If the quantity variation is such as to cause an increase in the time necessary for completing the Work, the Contractor may request, in writing, an extension of time in accordance with these General Conditions.

10.8. Disposition of Excess or Obsolete Property.

When the cost of materials, supplies, equipment or other personal property made obsolete or excess as a result of a delay is included in the equitable adjustment, the Project Manager shall have the right to prescribe the manner of disposition of such property.

ARTICLE 11 CONTRACT TIME

11.1. General.

Work shall be fully completed in a satisfactory and acceptable manner by the Completion Date as modified by Change Orders providing for additional time due to excusable delays.

11.2. Delays.

- 11.2.1. Delay claims fall into three categories: **non-excusable**; **excusable/non-compensable**; and **excusable/compensable**. Any payment for compensable delays or the granting of time extensions for excusable delays requires a properly executed Change Order. The Contractor agrees that time extensions shall constitute full compensation for, and the Contract shall make no claim for monetary damages relating to, any non-excusable delay or any excusable/non-compensable delay.
- 11.2.2. **Non-excusable delay** is caused by factors within the Contractor's reasonable control or by the Contractor's fault. No additional time or additional compensation is allowed for non-excusable delays. Typical non-excusable delays, without limitation, include:
- a) Late submittal of Shop Drawings;
 - b) Late procurement of materials or equipment;
 - c) Insufficient personnel;
 - d) Unqualified personnel;
 - e) Inadequate coordination of Subcontractors or other contractors;
 - f) Subcontractor delays;
 - g) Late response to City, Project Manager, or Inspector inquiries;
 - h) Failure to comply with the requirements of the Contract Documents;
 - i) Construction not conforming to contract requirements making repeated re-working necessary;
 - j) Delays resulting from the Contractor's failure to take reasonable actions to mitigate or prevent further delays relating to any excusable delay;
 - k) Failure to continue performance during the determination of any Contractor Change Request or claim; and
 - l) Weather Days exceeding the Reasonably Predictable Weather Days identified on the approved Construction Schedule, unless approved as unusually severe weather days.
- 11.2.3. **Excusable/Non-compensable delay** is caused by factors beyond the Contractor's reasonable control, but is not the result of the City's actions or omissions. An excusable/non-compensable delay entitles the Contractor to an extension of time but no additional compensation for the cost of the delay. Typical excusable/non-compensable delays, without limitation, include strikes, lockouts, natural fires not caused by Contractor's acts or omissions, unusual delay in transportation, unavoidable casualties, legal or administrative proceedings affecting the Work or the Project, and other causes beyond the Contractor's control.
- 11.2.4. **Excusable/Compensable delay** is caused by the City's failure to meet an obligation within its control stated or implied in the Contract, but shall not include any action, omission, or exercise of any right under the Contract. If the Project Manager considers a delay as compensable, the City will grant a time extension or reimburse the Contractor for the increased total cost of performance caused by the delay, or both, as

appropriate. Typical excusable/compensable delays, without limitation, include:

- a) Late approval of Shop Drawings and samples;
- b) Delays in answers to field inquiries made by the Contractor;
- c) Interference with the Contractor during construction;
- d) City-caused schedule changes;
- e) Design changes; or
- f) Interference by another contractor's or the City's forces.

11.2.5. **Time Adjustments for Weather Delays.** The Project Manager, in his or her discretion, may deem weather-related delays as excusable/non-compensable if the net number of Weather Days in any month exceeds the number of Reasonably Predictable Weather Days for that month shown on the approved Construction Schedule. The Contractor must submit a weather time impact analysis supporting any request for time extensions due to unusually severe weather.

11.3. Failure to Complete Work on Time – Liquidated Damages.

11.3.1. The City may permit the Contractor to proceed if the Contractor fails to advance the Work sufficiently to obtain a Notice of Substantial Completion on or before the Completion Date, as modified by Change Orders providing for additional time due to excusable delays. In such case, the Contractor will pay the sum of liquidated damages stipulated in the Special Conditions for each day that the Work remains uncompleted. This sum shall not be a penalty but is liquidated damages.

11.3.2. The Parties agree that time is of the essence in the performance of this Contract and that actual damages for delay are incapable of calculation. The Parties agree that, under all of the circumstances, the daily basis and the amount set forth as liquidated damages is reasonable and equitable. The City expends additional personnel effort in administering the Contract or portions of it that are not completed on time, and such efforts and the costs thereof are impossible to accurately compute. In addition, some, if not all, citizens of Commerce City incur personal inconvenience and lose confidence in their government as a result of public projects or parts of them not being completed on time, and the impact and damages, certainly serious in monetary as well as other terms, are impossible to measure.

11.3.3. Permitting the Contractor to continue and finish the Work, or any part of it, after the Completion Date shall not operate as a waiver on the part of the City of liquidated damages or any of its rights under the Contract.

11.3.4. The City may deduct any liquidated damages or any portion thereof due under this article from Final Payment and may sue for and recover such damages from the Contractor and the Surety.

11.3.5. Liquidated damages in the amounts stipulated do not include any sums of money to reimburse the City for extra costs which the City may become obligated to pay on other contracts which were delayed or extended because of the Contractor's failure to complete the Work within the Contract Time. The City reserves all of its rights to actual damages from the Contractor for injury or loss suffered by the City from actions or omissions of the Contractor, including but not limited to any other breach or default of the Contract, outside of the scope of this section.

ARTICLE 12 PAYMENTS TO CONTRACTOR AND COMPLETION

12.1. General.

Unless expressly provided otherwise, the Unit Prices shown in the Bid include the cost of all labor, materials, supplies, equipment, tools, forms, services, utilities, royalties, fees, taxes, profit, overhead, and any other thing or expense, whether temporary or permanent, necessary to complete the Project in accordance with the Contract Documents. Items not shown on the Contract Documents that are necessary to construct the Project will be considered a part of the Project whether specified or not and no separate payment will be made for these items.

12.2. Determination of Amounts and Quantities.

- 12.2.1. The Project Manager or his or her designee shall verify determinations of amounts and quantities of Work performed.
- 12.2.2. The method of measurement of pay items subject to Unit Prices will be as specified in the Special Conditions.

12.3. Monthly Estimates & Progress Payments.

- 12.3.1. The Contractor shall submit signed applications for progress payments on a monthly basis based on partial estimates for all Work completed to date. Applications shall be submitted no later than ten (10) days after the end of the month for Work subject to the application. Applications shall be submitted in a format reflecting the line items for which payment is requested according to the Unit Price Form in the Bid and any applicable Change Order, shall be dated as of the actual date of submittal (or revised submittal, as applicable), and shall reflect the Work completed and the date to which Work has been completed. The Contractor will provide support documentation for all applications, as requested.
- 12.3.2. The signature on each application is a representation by the Contractor to the City that the Work has progressed to the point indicated, that the Work covered by the application is in accordance with the Contract Documents, that the money received as a result of the application will be used to discharge the Contractor's obligations under the Contract, and that the Contractor is entitled to payment in the amount requested.
- 12.3.3. By submitting an application for payment, the Contractor warrants that: (i) the title to the Work covered by the estimate of Work completed will pass to the City by incorporation into the completed Work; (ii) the Work covered by previous estimates of Work completed is free and clear of liens, claims, security interests or encumbrances, except for any interest created by retainage; and (iii) no Work covered by the estimate of Work completed is subject to an agreement under which an interest therein or an encumbrance thereon is retained by the seller or otherwise imposed by the Contractor or any other person or entity.
- 12.3.4. The Contractor shall not include in its application for payment any billing for defective Work or for work performed by Subcontractors or Suppliers if it does not intend to pay the Subcontractors or Suppliers for such work.
- 12.3.5. Applications may include the value of acceptable materials required in the construction which have been delivered on the site of the Work or to adjacent railway siding and for

which acceptable provisions have been made for preservation and storage, providing the Contractor submits with its monthly estimate paid invoices in duplicate for the material for which payment is being requested. Material paid for by the City becomes the property of the City and, in the event of the default on the part of the Contractor, the City may use or cause to be used such materials in construction of the Work provided for in the Contract.

- 12.3.6. The authorized City representative(s) must approve the applications and estimates before progress payments will be made. The City will make payments within thirty (30) days after that the receipt of a monthly estimate in proper form containing all required and requested information. Progress payments are payments on accounts and shall not be construed as acceptance by the City or any part of the Work.
- 12.3.7. All progress payments, except for the Final Payment, shall be subject to correction on subsequent applications after the discovery of any error. Approval of an application for payment of Work completed or actual payment by the City shall not foreclose the right of the City to examine the books and records of the Contractor to determine the correctness and accuracy of any item.
- 12.3.8. The Contractor shall make partial payments of the amount due and payable to each of its Subcontractors and Suppliers in the same manner as the City is required to pay the Contractor under this article. This provision shall not create any privity of contract between the City and any Subcontractor or Supplier, or make any Subcontractor or Supplier a third-party beneficiary of this Contract.

12.4. Retainage & Withheld Amounts.

- 12.4.1. The City will retain **five percent (5%)** of the total amount earned, including Change Orders, as indicated in each approved application until Final Payment. Securities are not acceptable to the City in lieu of retainage.
- 12.4.2. If the City finds that satisfactory progress is being made in all phases of the Contract, it may, upon written request by the Contractor, authorize payment from the withheld percentage. Before such payment is made, the City shall determine that satisfactory and substantial reasons exist for the payment and shall require written approval from any Surety furnishing the Payment Bond or Performance Bond.
- 12.4.3. The City may withhold, in addition to retained percentages from Contractor payments, such an amount or amounts from any progress payment or Final Payment as may be necessary to cover:
 - a) Claims for labor or materials furnished the Contractor or any Subcontractor or reasonable evidence indicating probable filing of such claims;
 - b) Failure of the Contractor to make proper payment to Subcontractors or Suppliers;
 - c) A reasonable doubt that the Contract can be completed for the balance then unpaid;
 - d) Evidence of damage to another contractor, utility, or private property;
 - e) Uncorrected defective Work or guarantees that have not been met;
 - f) Failure of the Contractor to submit cost breakdowns, schedules, reports and other information required under the Contract;

- g) Persistent failure to carry out the Work according to the Contract;
- h) Reasonable evidence that the Work will not be completed within the Contract Time and that the unpaid balance would not be adequate to cover actual or liquidated damages for the anticipated delay;
- i) Any tax delinquency, unpaid fee, or other unpaid financial obligation of the Contractor owed to the City;
- j) Any request that the City pay additional compensation to another contractor as a result of delays in the performance of that contractor's work caused by the Contractor's acts or omissions; and
- k) Any other amounts that the City is authorized to withhold under the Contract Documents.

If the reason for withholding is removed, the City will make payment of the withheld sums with the next regular progress payment unless another basis for withholding exists

- 12.4.4. Execution of the Contract by the Contractor shall constitute a waiver by the Contractor to claim any right of payment of interest upon any funds retained or withheld by the City pursuant to these General Conditions or C.R.S. § 38-26-107.

12.5. Substantial Completion.

- 12.5.1. When the Contractor considers the entire work ready for its intended use, the Contractor shall notify the Project Manager in writing that the entire Work is substantially complete, except for minor items specifically listed by Contractor as incomplete (the Contractor's punch list), and request that the Project Manager issue a Notice of Substantial Completion.
- 12.5.2. Within seven (7) days after the receipt of such notice, the Contractor, Project Manager and any other appropriate City representatives shall inspect the Work to determine the status of completion and the Contractor's punch list.
 - a) If the Project Manager does not consider the Work substantially complete, the inspection will cease and the Project Manager will notify the Contractor in writing giving the reasons for denial of the Notice of Substantial Completion and the Contractor will proceed with the Work. All costs associated with such premature inspection, including any compensation for additional design services and the City's additional costs, shall be deducted from any payment due to the Contractor.
 - b) If the Project Manager considers the Work substantially complete, the Project Manager will prepare and deliver to the contractor a Notice of Substantial Completion. The Project Manager shall attach to the notice a punch list of items to be completed or corrected before Final Acceptance. Failure to include any items on the punch list shall not alter the responsibility of the Contractor to complete all Work in accordance with the Contract Documents.

12.6. Right of Early Occupancy or Use.

- 12.6.1. The City shall have the right to take early beneficial possession of and to use any completed or partially completed portions of the Work, even if Substantial Completion of the Work has not occurred and even if the Work has not been finally accepted. Such beneficial possession and early occupancy shall not constitute Substantial Completion of such portions of the Work nor affect the City's right to assess liquidated damages.

- 12.6.2. If the City elects to take possession of and to use any completed or partially completed portions of the Work prior to Substantial Completion, an inspection shall be made by the Contractor and the Project Manager. Based upon such inspection, the Project Manager will attempt to list all incomplete Work items observed, and shall provide the Contractor with such list. However, the absence of an item from the list shall not relieve the Contractor of responsibility to perform all of the Work. Any and all areas so occupied will be subject to a final inspection prior to Final Acceptance.
- 12.6.3. At the time of such inspection, the Parties shall also negotiate the responsibilities of the City and the Contractor for security, maintenance, heat, utilities, property insurance premiums, and damage to the Work. These negotiations are subject to the final approval of the City.
- 12.6.4. If the Contractor believes there will be an additional cost or delay associated with completion of the Work while the City occupies the Work in whole or in part under this section, the Contractor shall advise the Project Manager by Contractor Change Request of all such costs at or before the time of such inspection. If the Contractor fails or refuses to furnish such cost information, or fails or refuses to comply with the Contractor Change Request procedure, the Contractor shall be deemed to have waived any and all rights to assert any claim for such additional cost or delay.
- 12.6.5. If the City's need to occupy the Work prior to such time as the Work is complete is caused by the Contractor's failure to complete the Work within the stipulated Period of Performance, the Contractor shall bear any and all additional costs associated with completing the Work.

12.7. Final Acceptance.

- 12.7.1. When the Work specified in the Contract (including all punch list items) is completed and the final cleanup has been performed, the Contractor shall notify the Project Manager that all Work under the Contract has been completed and the Project Manager shall, within seven (7) days after such notice, make the final inspection.
- 12.7.2. If the Project Manager finds that the Project has been completed according to the Contract requirements and that all parts of the Work are in good condition and in working order, the City, upon the recommendation of the Project Manager, shall issue a Notice of Final Acceptance. Any Notice of Final Acceptance issued orally or without proper City authorization is void.
- 12.7.3. If the Project Manager finds that the Project has not been completed according to the Contract requirements and that not all parts of the Work are in good condition and in working order, the Project Manager shall compile a punch list of corrective or replacement Work to be completed by the Contractor and Contract obligations yet to be satisfied that the Contractor shall complete or fulfill to the Project Manager's satisfaction, at the Contractor's expense, as a condition precedent to the issuance of a Notice of Final Acceptance.

12.8. Final Settlement & Final Payment.

- 12.8.1. After Final Acceptance, the Project Manager, Contractor, or other person designated by the City, as appropriate, will prepare a final estimate of the total value of all Work performed under the Contract. This will include all extra Work properly authorized and performed. All prior estimates and payments shall be subject to correction in the final

estimate and payment. In the absence of error or fraud, all estimates, when approved by the City, shall be conclusive evidence of the Work performed and materials furnished.

- 12.8.2. The City shall not authorize final payment until all items on the punch list have been completed, a Notice of Final Acceptance is issued, and the Notice of Final Settlement has been published. If the Work is substantially completed, but Final Acceptance is prevented by the unavailability of materials, or other causes beyond the control of the Contractor, and if consistent with any applicable bond ordinance, the City, in its sole discretion, may release to the Contractor all amounts due except for a retainage of two (2) times the cost of completing the unfinished Work as estimated by the City.
- 12.8.3. Before the City will advertise final settlement, the Contractor shall demonstrate to the operating personnel of the City the proper operation and maintenance of all equipment and systems, and deliver to the Project Manager:
 - a) All guarantees and warranties;
 - b) Bound sets of required operations and maintenance manuals and instructions as required by the Contract Documents;
 - c) Record Documents as required by the Contract Documents;
 - d) Satisfactory evidence that all payroll, material bills, taxes, and other indebtedness connected with the Work have been paid or otherwise satisfied;
 - e) A complete and final, unconditional waiver or release of any and all lien and claim rights from each Subcontractor, materialman, Supplier, manufacturer, and dealer for all labor, equipment and material used or furnished by each on the Work;
 - f) Consent of the Surety to final payment;
 - g) All submittals required by the Contract Documents; and
 - h) Any other documents required to be furnished by the Contract Documents
- 12.8.4. The Work shall be advertised (Notice of Contractor's Settlement) in accordance with C.R.S. § 38-26-107. This statute governs the maintenance and enforcement of claims for payment against the Project by Subcontractors, Suppliers and certain others. Final payment and settlement shall be made only after the Contractor has completed the foregoing requirements, and the City is satisfied that no claims by Subcontractors or Suppliers have been filed or remain pending.
- 12.8.5. If any unpaid claim for labor, materials, rental machinery, tools, supplies, or equipment is filed prior to the date set for final settlement, the City shall withhold from payments to the Contractor sufficient funds to ensure the payment of such claim, until the same shall have been paid or withdrawn. Such payment or withdrawal shall be evidenced by filing with the Project Manager an unconditional receipt in full or an order for withdrawal signed by the claimant or its duly authorized agent or assignee. The City will withhold from payment any funds it may be required by law to withhold or that it may in the determination of the City be entitled to withhold, and final payment will not be made until, in the sole determination of the City, all conditions of the Contract and of law have been met.
- 12.8.6. If there are outstanding claims against the Contractor or its Subcontractors or for any other reason the Contractor is not able to fulfill one or more of the requirements of this section, the City may, at its sole discretion, waive the requirement, provided the Surety

agrees to the City making final settlement without in any way lessening or modifying the Surety's liability under such Bonds.

- 12.8.7. If any overpayment was made by the City at any time, the Contractor shall immediately return all overpaid amounts.
- 12.8.8. At the time of settlement, there shall be deducted from the final estimate (i) all previous payments made to the Contractor under the Contract, (ii) all amounts chargeable to the Contractor, (iii) all liquidated damages due the City; (iv) all unpaid taxes due and payable the City; and (v) all damages and all other costs, expenses and charges properly chargeable to the Contractor under the terms of the Contract.
- 12.8.9. Subject to delays allowed by Colorado law and these General Conditions, the City shall make Final Payment after Final Acceptance, including the release of all retainage and withheld amounts, except as authorized by the Contract Documents. Final Payment shall constitute complete payment for all Work, labor, materials, equipment, and miscellaneous items in the Project.
- 12.8.10. At the time of delivery to the Contractor of the final payment, the Contractor shall execute and give to the City a final receipt for the same.
- 12.8.11. The acceptance of final payment shall constitute a waiver of all Claims by the Contractor except those previously made in accordance with these General Conditions which have been separately identified by the Contractor as unsettled in the final payment application, and which the City agrees in writing may be set over for resolution after final payment.
- 12.8.12. All provisions of these Contract Documents, including without limitation those establishing obligations and procedures, shall remain in full force and effect notwithstanding the making or acceptance of final payment.

ARTICLE 13 DISPUTES & MEDIATION

- 13.1. If the Contractor considers any ruling or decision of the Project Manager to be unfair, the Contractor shall immediately ask for a written instruction or decision but shall perform the Work in conformance with the Project Manager's ruling. If the Contractor considers such instructions or decision unsatisfactory, the Contractor shall file a written claim or protest with the Project Manager.

13.2. Notice of Intent to Claim.

The Contractor shall submit a Notice of Intent to Claim for any claim, dispute, or protest ("Claim") of any decision or event arising out of or related to this Contract (other than those for which a specific procedure is set forth elsewhere in these General Conditions) in writing within ten (10) days of the later of the Contractor's receipt of the Project Manager's written instruction or decision (if applicable), deemed denial, or any other event giving rise to the claim, dispute, or other matter and shall include the basis for the Claim. The Notice of Intent to Claim shall be clearly titled as such, dated as of the actual date of submission, and numbered sequentially, and shall contain at a minimum:

- a) Project title and number;
- b) Date of the event giving rise to the claim, dispute, or protest;

- c) A description of the Claim and the events giving rise to the Claim, including any original request and the Project Manager's decision or denial; and
- d) The reasons why the Contractor believes additional compensation or time is due or charges were wrongly assessed;
- e) An accounting or estimate of all additional costs associated with the Claim;
- f) The Contractor's plan for mitigating costs or delays associated with the Claim.

13.3. Claim.

Within twenty (20) days after submitting the Notice of Intent to Claim, the Contractor shall submit to the Project Manager a complete and itemized Claim that includes any claimed increase in Contract Time or Contract Price, or both. The Contractor may request an extension of time to submit the Claim, which extension may be granted by the Project Manager, provided that good cause is shown. The Claim must be described in sufficient detail to allow the City to evaluate the basis of and costs associated with the Claim.

- 13.3.1. A Claim for an increase in Contract Price shall be submitted based on actual costs whenever possible, rather than an estimate or opinion, shall be supported by invoices, time cards, and other business records commonly accepted in the industry, and shall comply with the requirements of these General Conditions concerning changes to the Contract Price.
- 13.3.2. Any Claim for changes to the Contract Time shall include the information required by these General Conditions concerning changes to the Contract Time. The Claim shall be accompanied by copies of all Contract provisions or other documents supporting the Claim and a summary of the legal and factual theories supporting the Claim. A Claim for time extension must be accompanied by a revised Construction Schedule reflecting the effects of the delay on the completion of critical activities and showing actions that the Contractor has taken or proposes to take to minimize the effects of the delay.
- 13.3.3. The Claim shall also identify any measures the City can take to minimize the Claim.
- 13.3.4. The Contractor shall submit with its Claim a notarized certificate, executed under penalties of perjury, that:
 - a) The Claim is made in good faith;
 - b) All supporting data are accurate and complete to the best of the Contractor's knowledge and belief;
 - c) The amount requested accurately reflects that Contract adjustment for which the Contractor believes the City is liable; and
 - d) The prices stated for material and equipment are the lowest reasonably available to the Contractor and include all available discounts.
- 13.3.5. If the Contractor is an individual, the certification shall be executed by that individual; if the Contractor is not an individual, the certification shall be executed by an officer or general partner of the Contractor or other person having written authority to sign the Claim.

13.4. Additional Information.

The Contractor shall furnish, upon request, all additional information and data that the City

determines is needed to aid in resolving the Claim through negotiation or is required to complete an evaluation of the Claim. The Contractor shall give the City access to its books, correspondence, records, electronic files and data bases, and any other materials relating to the Claim, shall require its Subcontractors and Suppliers to provide the City with such access, and shall make its Personnel and that of its Subcontractors and Suppliers available to discuss and answer cost, schedule and other questions relating to the Claim. Clear copies of all necessary supporting records shall be provided to the City at no cost. Failure to submit requested information may be a basis for denial of the Claim.

13.5. Decision.

- 13.5.1. The City shall investigate, review, and evaluate the Claim and make a determination in writing within sixty (60) days of receipt of a completed and fully documented claim, unless special circumstances exist or the Claim is unusually complex, in which case the Contractor will be notified of any longer review period. If no determination is made within sixty (60) days, or by the end of any announced extended period of time, the claim is automatically denied.
- 13.5.2. The Contractor shall proceed diligently with performance of the Contract, pending final resolution of any Claim made under this article. Failure to proceed with the Work shall be grounds for suspension or termination of the Contract.
- 13.5.3. If the Contractor agrees with any determination or resolution by the City, such determination or resolution shall be processed as a Change Order

13.6. Waiver.

- 13.6.1. Failure to strictly meet any of the requirements of this article in a timely and complete manner shall constitute a waiver by the Contractor of any and all right to adjustments of Contract Time or Contract Price, either by administrative review or by any other action at law or equity.
- 13.6.2. Strict compliance with all provisions of this article shall be a condition precedent to the Contractor's ability to file any lawsuit in law or equity, or recover any damages, in connection any Claim.

13.7. Mediation.

- 13.7.1. If the Contractor disagrees with the City's determination of the Claim, the Parties shall first submit the dispute to non-binding mediation before seeking any remedy in any other forum. The mediator shall be a trained mediator having experience related to municipal construction projects. The Parties shall jointly select the mediator from a list of mediators proposed by the Parties. If the Parties are unable to agree on a mediator, the Parties shall submit three mediator names each and the mediator shall be selected by random drawing at which the Project Manager and the Contractor are present. No discussions or statements of the mediator may be admitted as evidence in any subsequent litigation, nor may the mediator be called to testify in any litigation. The cost of the mediator shall be shared equally by the Parties.
- 13.7.2. Mediation in accordance with this section shall be a condition precedent to filing any lawsuit relating to any Claim.

13.8. If any dispute, mediation, or litigation arises out of this Contract, the Contractor shall

continue the Work in accordance with the terms and conditions of the Contract Documents during the time such dispute, mediation, or litigation is pending except as expressly provided in the Contract Documents.

ARTICLE 14 BONDS

14.1. The Contractor shall, within the time specified in the Request for Bids, and before the commencement of any Work, provide the City with a separate:

14.1.1. Performance bond in an amount equal to 100% of the amount of the Contract Price as a guarantee of the Contractor's faithful performance and completion of all undertakings, covenants, terms, conditions, warranties, and agreements of the Contract; and

14.1.2. Payment bond in an amount equal to 100% of the amount of the Contract Price, which bond shall conform to the requirements of C.R.S. § 38-26-101, *et seq.*, as amended, as a guarantee of the Contractor's prompt payment to all persons supplying labor and materials in the prosecution of the Work provided by the Contract.

The Contractor shall use the Bond forms included with the Request for Bids. Other forms may be used if approved by the City Attorney before the submission of the bid.

14.2. The Contractor bears the expense of all Bonds.

14.3. The Contractor shall secure an increase in the bonds in an amount equal to the cost of any additional work authorized pursuant to a duly executed Change Order or Contract amendment that increases the Contract Price by ten percent (10%) or more, unless waived in writing by the Project Manager.

14.4. The Contractor and a Surety shall execute the Bonds. The Surety shall be corporate bonding company acceptable to the City, licensed to transact such business in the State of Colorado, and listed in the U.S. Department of the Treasury Circular 570 in effect on the date of the Request for Bids. Evidence of authority of an attorney-in-fact acting for the Surety shall be provided in the form of a certificate as to its power of attorney and to the effect that it is not terminated and remains in full force and effect on the rate of the Bonds.

14.5. If at any time a Surety on any Bond becomes irresponsible, is disqualified from doing business in the State of Colorado, or becomes insolvent or otherwise impaired, the Contractor shall furnish Bond(s) from an alternate Surety acceptable to the City.

14.6. The Bonds shall remain in effect until Final Acceptance.

ARTICLE 15 INSURANCE

15.1. General Requirements.

15.1.1. **Insurance Requirement.** The Contractor, at its own cost, shall procure and maintain, and shall cause each Subcontractor to procure and maintain, policies containing the minimum insurance coverage listed in this article for the duration of the Work. Such coverage shall be procured and maintained with forms and insurers acceptable to the City. All coverage shall be continuously maintained from the date of commencement of Work. In the case of any claims-made policy, the necessary retroactive dates and extended reporting periods shall be procured to maintain such continuous coverage.

- 15.1.2. **No Modification of Liability.** The Contractor shall not be relieved of any liability, claims, demands or other obligations assumed pursuant to the Contract Documents by reason of its failure to procure or maintain insurance, or by reason of its failure to procure or maintain insurance in sufficient amounts, durations, or types. The insurance requirements contained in the Contract shall not limit or redefine the obligations of the Contractor as provided elsewhere in the Contract. The limits of any insurance required by this Agreement will not limit Contractor's liability.
- 15.1.3. **Evidence of Coverage.** Before commencing Work, the Contractor will provide certificates of insurance policies and all necessary endorsements evidencing insurance coverage required by the Contract Documents and identifying the Project. The City will not be obligated under the Contract until Contractor provides acceptable such certificates of insurance and endorsements. If the Term extends beyond the period of coverage for any required insurance, the Contractor will, at least ten (10) days before the expiration of any such insurance coverage, provide the City with new certificates of insurance and endorsements evidencing either new or continuing coverage.
- 15.1.4. **Breach.** Failure on the part of the Contractor to procure or maintain policies providing the required coverage, conditions, and minimum limits shall constitute a material breach of contract upon which the City at its discretion may procure or renew any such policy or any extended connection therewith, and all monies so paid by the City shall be repaid by Contractor to the City upon demand, or the City may offset the cost of the premiums against any monies due to Contractor from the City.

15.2. Required Policies.

- 15.2.1. **Commercial General Liability Insurance.** Comprehensive general liability insurance insuring against any liability for personal injury, bodily injury or death arising out of the performance of the Work with at least One Million Dollars (\$1,000,000) each occurrence and Two Million Dollars (\$2,000,000) general aggregate, including the following coverages: broad form property damage; operations premises liability; personal and advertising injury liability, independent contractors coverage, contractual liability, completed operations/products liability; coverage for construction, means, and methods; and explosion, collapse, and underground liability (if the Work requires blasting, explosive conditions, collapse hazards or underground operations, this coverage shall contain no exclusion relative to property in the care, custody, or control of the insured).
- 15.2.2. **Products and Completed Operations Insurance.** Products and completed operations insurance insuring against any liability for bodily injury or property damage caused by the completed Work, with a combined single limit of at least One Million Dollars (\$1,000,000) and Two Million Dollars (\$2,000,000) general aggregate.
- 15.2.3. **Builder's Risk.** A builder's risk or installation floater policy, at the City's discretion, in an amount equal to the value of the Project where the possibility exists of losses or damage to the Project. The Special Conditions of the Contract Documents will state if and when Builder's Risk is required.
- 15.2.4. **Comprehensive Automobile Liability Insurance.** Comprehensive automobile liability insurance insuring against any liability for personal injury, bodily injury or death arising out of the use of motor vehicles and covering operations on or off the site of all motor vehicles controlled by Contractor that are used in connection with performance of the

Work, whether the motor vehicles are owned, non-owned, hired, leased, or borrowed, with a combined single limit of at least Two Million Dollars (\$2,000,000) each accident and personal injury protection per Colorado law.

- 15.2.5. **Other Insurance.** Workers' compensation insurance (unless Contractor provides a completed Declaration of Independent Contractor Status Form) and other insurance required by applicable law.

15.3. Terms of Insurance.

- 15.3.1. **Additional Insured.** Except for the workers' compensation policy, all required insurance policies shall name the City and any additional person or entity identified by the City as an additional insured and will provide that the City or other additional insured, although named as an additional insured, will nevertheless be entitled to recovery under said policies for any loss occasioned to the City or its officers, employees or agents or other additional insured by reason of the negligence of Contractor or its officers, employees, agents, subcontractors or business invitees. The insurance policies will be for the mutual and joint benefit and protection of the Contractor and the City and other additional insured, if any. Such policies will be written as primary policies not contributing to and not in excess of coverages the City or other additional insured may carry.
- 15.3.2. **Qualification; Deductible.** Insurance required by this Section will be with companies qualified to do business in the State of Colorado and having an AM Best Rating of not less than B+ and/or VII. Insurance may provide for deductible amounts as the Contractor deems reasonable for the Services, but in no event greater than Twenty Thousand Dollars (\$20,000.00) (unless waived by the City), and the Contractor will be responsible for the payment of any such deductible.
- 15.3.3. **Cancellation.** The policies shall not be cancelled, terminated or materially changed until at least 30 days prior written notice has been given to the City.
- 15.3.4. **Coverage Type.** Contractor will identify whether the type of coverage is "occurrence" or "claims made." If the type of coverage is "claims made," which at renewal Contractor changes to "occurrence," the Contractor will carry a twelve (12) month tail. The Contractor will not do or permit to be done anything that will invalidate the policies.
- 15.3.5. **No "Pollution Exclusion."** The required insurance will cover any and all damages, claims or suits arising out of the actual, alleged or threatened discharge, dispersal, seepage, migration, release or escape of pollutants, and will not exclude from coverage any liability or expense arising out of or related to any form of pollution, whether intentional or otherwise. If the Contractor is unable to procure a policy of insurance in compliance with these provisions, the Contractor will secure and maintain either a rider or a separate policy insuring against liability for pollution related damages, claims or suits, as described in subsection ii(a), with at least Two Million Dollars (\$2,000,000) each occurrence, subject to approval by the City.

ARTICLE 16 INDEMNIFICATION

- 16.1. The Contractor shall indemnify, save harmless, and defend the City, its officers and employees, from and in all suits, actions or claims of any character brought because of: any injuries or damage received or sustained by any person, persons or property because of operations for the City under the Contract; the Contractor's failure to comply with the provisions of the Contract; the Contractor's neglect of materials while constructing the Work; because of any act or omission, neglect or misconduct of the Contractor; because of any claims or amounts recovered from any infringements of patent, trademark, or copyright, unless the design, device, materials or process involved are specifically required by Contract; from any claims or amount arising or recovered under the "Workers' Compensation Act," by reason of the Contractor's failure to comply with the act; pollution or environmental liability; or any failure of the Contractor to comply with any other law, ordinance, order or decree. Nothing in this article requires the Contractor to defend, indemnify, or hold harmless the City from the City's own negligence.
- 16.2. The Contractor will include this article in all Subcontracts.
- 16.3. The City may retain so much of the money due the Contractor under the Contract as the City considers necessary to offset any damages for which Contractor may be liable under this paragraph. If no money is due, the Contractor's Surety may be held until such suits, actions, claims for injuries or damages have been settled. Money due the Contractor will not be withheld when the Contractor produces satisfactory evidence that it and the City are adequately protected by public liability and property damage insurance.
- 16.4. The Contractor will pay the City all expenses incurred to enforce this article. If the insurer of the Contractor fails to provide or pay for the defense of the City of Commerce City, its officers and employees, as additional insured, the Contractor agrees to pay for the cost of that defense.
- 16.5. This article will survive Final Acceptance and the termination of this Contract.

ARTICLE 17 CONTRACT TERMINATION

17.1. Termination for Cause.

- 17.1.1. The City may terminate the Contract for cause due to the actions or inactions of the Contractor. Cause includes, without limitation:
- a) If the Work to be performed under the Contract is assigned by the Contractor without written permission of the City;
 - b) If the Contractor shall file a voluntary petition in bankruptcy;
 - c) If a general assignment of the Contractor's assets is to be made for the benefit of its creditors;
 - d) If a receiver is appointed for the Contractor or any of its property;
 - e) If the Contractor has materially breached any of the conditions, provisions or covenants of the Contract;
 - f) If, at any time, the performance of the Work under the Contract is being unnecessarily delayed or if the Contractor is willfully or deliberately violating any of the conditions, provisions, or covenants of the Contract Documents, or if the Contractor is executing the same in bad faith or otherwise not in accordance with

terms of the Contract;

- g) If the Work or any part of the Work is not fully completed within the time or times named for its completion or within the time to which such completion date or dates have been extended;
- h) If the Contractor abandons the Work;
- i) If the Contractor fails to maintain the required Bonds, licenses, permits, or insurance;
- j) If the Contractor or any of its officers or employees are convicted, plead nolo contendere, enter into a formal agreement in which they admit guilt, enter a plea of guilty, or otherwise admit culpability to criminal offenses of bribery, kickbacks, collusive bidding, bid-rigging, antitrust, fraud, undue influence, theft, racketeering, extortion or any offense of a similar nature, in connection with Contractor's business; or
- k) If other just cause exists.

17.1.2. The City will send written notice to the Contractor and the Surety of the City's intent to terminate for cause and will give the Contractor and Surety ten (10) days from the date the notice was sent to cure the default or provide to the City in writing, a detailed plan of how it will remove the causes for termination, except that, if the Completion Date is less than ten (10) days away, the notice may specify less than ten (10) days. If the Contractor or Surety does not submit such plan within the time established, or if, in the judgment of the City, such plan will not ensure the satisfactory performance of the Work, the City may declare the Contract terminated on the effective date specified in the notice or any other date thereafter.

17.1.3. In the event of termination for cause, the City shall notify the Contractor to discontinue all Work under the Contract and the Contractor shall immediately respect such notice, stop all Work and cease to have any right to possession of the Work site.

17.1.4. In addition, the Contractor shall forfeit its Contract as of the specified effective date of termination.

17.1.5. Upon such termination for cause, the City may take possession of all materials, equipment, tools, and plant as may be on the site of the Work or necessary for completion of the Work and take over the Work and prosecute the same to completion, by Contract or otherwise, for the account and at the expense of the Contractor.

17.1.6. The Contractor and the Surety shall be liable to the City for any and all costs and expenses in excess of the Contract Price or prices sustained by the City by reason of such prosecution and completion, which costs shall include all administrative costs.

17.2. Termination for Convenience.

17.2.1. The performance of Work under the Contract in whole or in part may be terminated without cause by the City whenever the City, in its sole discretion, shall determine that such termination is in the best interest and convenience of the City or whenever the City is prohibited from completing the Work for any reason. Such termination shall be effected by giving not less than three (3) days' written notice to the Contractor specifying the extent to which performance of the Work is terminated and the date upon which such termination becomes effective.

17.2.2. Upon receipt of such notice of termination, the Contractor shall:

- a) Stop work as specified in the notice;

- b) Terminate all orders and subcontracts except as necessary to complete Work which is not terminated;
 - c) If directed in writing by the City to do so, assign all right, title, and interest in subcontracts and materials in progress, in which case the City will have the right, in its discretion, to settle or pay any or all Claims arising out of the termination of such subcontracts;
 - d) Settle outstanding liabilities and claims with the approval of the City;
 - e) Complete performance of such part of the Work not terminated; and
 - f) Take such other actions as may be necessary, or as may be directed by the City, for the protection and preservation of the property related to the Contract.
- 17.2.3. Except as provided herein, any inventory paid for by the City but remaining upon the termination of the Contract may, with written approval of the City, be sold or acquired by the Contractor under the conditions prescribed by and at prices approved by the City.
- 17.2.4. Upon receipt of notice of such termination, the Contractor shall submit to the Project Manager a request for final payment, in a form and with certification prescribed by the City. Such request shall be submitted promptly but in no event later than sixty (60) days from the effective date of termination, unless extended in writing by the Project Manager, upon the written request of the Contractor within such sixty (60) day period.
- 17.2.5. The final payment to the Contractor after a termination for convenience shall be calculated as follows:
- a) From the Contract Price, subtract the following:
 - 1) The total amount paid to the Contractor to date;
 - 2) The value of the Work completed since the last approved pay application;
 - 3) The total amount of retainage withheld by the City to date;
 - 4) The agreed price for, or the proceeds of sale of, any materials, supplies, or other things acquired or sold by the Contractor or sold pursuant to these General Conditions and not otherwise recovered by or credited to the City;
 - 5) The total of all claims the City may have against the Contractor; and
 - 6) Any outstanding claims pursuant to C.R.S. § 38-26-107, as amended or superseded.
 - b) Multiply the number resulting by 0.05. The number resulting is the full and complete compensation for anticipated profits
 - c) Add the following to the total resulting from the prior step:
 - 1) Any actual costs incurred by the Contractor for restocking charges;
 - 2) The agreed upon price of protecting the Work in the manner, if any, directed by the City;
 - 3) The amount of retainage withheld by the City to date; and
 - 4) The value of the Work completed since the last approved pay application.
- 17.3. The sum calculated under this article, when paid to the Contractor, shall constitute full and final settlement of the Contract Price.

- 17.4. The City may, from time to time, under such terms and conditions as the City may prescribe, authorize partial payments and payments against costs incurred by the Contractor for the terminated portion of the Contract, if it is estimated that the total of such payments will not exceed the amount to which the Contractor will be entitled. If the total of such payments is in excess of the amount to which the Contractor is entitled, the excess shall be payable by the Contractor to the City upon demand, together with interest computed pursuant to statute, for the period from the date the excess payment is received by the Contractor to the date the excess is repaid to the City.
- 17.5. The settlement for the Work performed shall not relieve the Contractor or its surety from responsibility for defective Work and/or materials on the completed portion of the Work nor for labor and materials or any other items as guaranteed by the Bonds.
- 17.6. The City shall be given full access to all books, correspondence, records, electronic files and data bases, and other materials of the Contractor relating to the Contract in order to determine the amounts to be paid on account of the termination of the Contract under this article. The Contractor shall furnish clear copies of any such materials as requested by the City.
- 17.7. If the Parties fail to agree in whole or in part on the amount or amounts to be paid to the Contractor in connection with the termination of work pursuant to this article, the Contractor may submit a claim as provided in these General Conditions, except that, if the Contractor has failed to submit its request for payment within the time provided above and has failed to request an extension of such time, it shall have no such right.

ARTICLE 18 AUDIT

18.1. Records and Reports.

- 18.1.1. The Contractor shall keep and maintain and shall cause its Subcontractors, Suppliers and outside consultants to keep and maintain books, records, accounts and other documents ("records") that are sufficient to accurately and completely reflect all costs incurred pursuant to the Contract that may be the basis of a Contractor Change Request or a claim by the Contractor. Such records may include the bid estimate, receipts, memoranda, vouchers, and accounts of every kind and nature pertaining to the performance of the Work including but not limited to job cost ledgers, invoices from and payments to Subcontractors, Suppliers and materialmen, and records of home and field office overhead, as well as complete summaries and reports setting forth all reimbursable man hours expended and payroll records.
 - 18.1.2. All such records shall be maintained a period of three (3) years from the date of Final Payment under the Contract in which the Work is completed. All Subcontractors shall keep and preserve such records accounts for a period of three (3) years from the date of Final Payment under the subcontract.
- 18.2. **Access.** The Contractor shall permit the City and the its auditors to have access to such records and any information or areas as provided in these General Conditions for the purpose of making such financial audits, or verifications as the City deems necessary or appropriate concerning the Contractor's performance under the Contract. Access will be provided at the Contractor's regular place of business in Colorado at reasonable times and upon reasonable notice.

ARTICLE 19 SALES AND USE TAX

Unless specifically exempt, all equipment used and all materials provided or consumed in or for construction and services performed within the City are taxable, including construction and services performed on behalf of an exempt institution or governmental, religious, charitable, private or any other type of owner, including the City.

- 19.1. **Contractor Responsible for Tax.** The Contractor is subject to the tax on all purchases, fabrication, manufacture or other production of tangible personal property used, stored or consumed on such construction and services, including parking lots, roads, bridges, highways, building construction and remodeling of both public and private facilities.
- 19.2. **Specific Industry Standard.** The Specific Industry Standard for Construction and Contractors (Regulation 20-S.I.15) can be provided upon request by contacting the City's Finance Department, Sales Tax Division, at 303-289-3628, and is available on the City's website at <http://www.c3gov.com/DocumentView.aspx?DID=115>.
- 19.3. **Equipment.** Prior to or on the date the Contractor locates equipment within the City to fulfill this Work, the Contractor shall file a declaration describing each anticipated piece of equipment the purchase price of which was two thousand five hundred dollars (\$2,500) or greater, stating the dates on which the Contractor anticipates the equipment to be located within and removed from the boundaries of the City and stating the actual or anticipated purchase price of each such anticipated piece of equipment along with any other information deemed necessary by the City. When such declared equipment is located within the City for a period of thirty (30) days or less, the Contractor may include sales and use tax calculated on one-twelfth (1/12) of the purchase price of such equipment in the contract amount, in compliance with Section 20-5-T of the Commerce City Sales & Use Tax Code. If the Contractor fails to declare the equipment to the City prior to or on the date the Contractor locates the equipment within the City, none of the sales and use tax due on the equipment shall be allowed as a contract expense.

ARTICLE 20 PERSONNEL & CIVIL RIGHTS

- 20.1. **Colorado Labor (C.R.S. § 8-17-101).** At least eighty percent (80%) of each type or class of labor employed by the Contractor and any Subcontractors to perform the Work shall be persons who, at time of employment, are residents of the State of Colorado, without discrimination as to race, color, creed, gender or sex, age, religion, national origin, veteran's status or religion, except when minimum age is a bona fide occupational qualification. The Project Manager, if requested in writing by the Contractor and approved by the Project Manager in writing, may waive this requirement.
- 20.2. **Anti-Discrimination.** While engaged in the performance of the Work, Contractor shall maintain employment practices consistent with the Colorado Antidiscrimination Act, C.R.S. § 24-34-301 through § 24-34-804, as amended.
- 20.3. **Civil Rights.**

In compliance with the Civil Rights Act of 1964, coupled with the Colorado Governor's Executive Order dated July 6, 1972, Contractor, for itself and its assignees and successors in interest, agree as follows:

- 20.3.1. When applicable, the Contractor shall comply with the Regulations of the Department of Transportation relative to nondiscrimination in Federally assisted programs of the

Department of Transportation (Title 49, Code of Federal Regulations, Part 21, hereinafter referred to as the "Regulations"), which are herein incorporated by reference and made a part of this Contract. Contractor shall not participate either directly or indirectly in discrimination prohibited by Section 21.5 of the Regulations including employment practices when the Contract covers a program set forth in Appendix "C" of the Regulations.

- 20.3.2. The Contractor, with regard to the Work performed by it after award and prior to completion of the Work, shall not discriminate on the grounds of race, creed, color, gender or sex, age, religion, veteran status, national origin or ancestry in the selection and retention of Subcontractors, including procurements of materials and leases of equipment.
- 20.3.3. In all solicitations either by competitive bidding or negotiation made by Contractor for work to be performed under a subcontract, including procurements of materials or equipment, each potential Subcontractor or Supplier shall be notified by Contractor of Contractor's obligations under this Contract and the regulations related to nondiscrimination on the grounds of race, creed, color, gender or sex, age, religion, veteran status, national origin or ancestry.
- 20.3.4. The Contractor shall take all affirmative actions necessary and appropriate to implement, not only the letter but also the spirit, of the policy of equality of opportunity as enunciated in the Constitution and the laws of the State of Colorado and as construed by the courts to prevent discrimination because of race, creed, color, gender or sex, age, religion, handicap, veterans status, national origin or ancestry.
- 20.3.5. The Contractor shall include the provisions of these subsections 1 through 5 in every subcontract, including procurements of materials and leases of equipment, unless exempt by the Regulations, orders or instructions issued pursuant thereto. The Contractor shall take such action with respect to any subcontract or procurement as the City may direct as a means of enforcing such provisions; provided, however, that in the event the Contractor becomes involved in, or is threatened with, litigation with a Subcontractor or supplier as a result of such direction, the Contractor may request the City to enter into such litigation to protect the interest(s) of the City.

20.4. Americans with Disabilities Act.

The City makes every attempt to comply with the Americans with Disabilities Act and requires all contractors to be aware of this law and to report immediately to the Project Manager any requests or complaints based upon the Americans with Disabilities Act. This requirement applies to persons or groups who have identified themselves as disabled, or as someone with whom they associate as disabled, and who require a special accommodation.

20.5. Illegal Aliens & Public Contracts (C.R.S. § 8-17.5-38).

- 20.5.1. **Certification.** The Contractor certifies that, as of the Effective Date, 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 the E-verify Program or Department Program as defined in C.R.S. § 8-17.5-37 in order to confirm the eligibility of all employees who are newly hired to perform work under this Contract.
- 20.5.2. **Pre-Employment Screening.** 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.

- 20.5.3. **Contractor Obligations.** The Contractor will not knowingly employ or contract with an illegal alien to perform work under this Contract or contract with a Subcontractor that fails to certify to the Contractor that the Subcontractor will not knowingly employ or contract with an illegal alien to perform work under this Contract. If the Contractor obtains actual knowledge that a Subcontractor performing work under this Contract knowingly employs or contracts with an illegal alien, the Contractor will:
- a) Notify the Subcontractor and 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 this subparagraph d the Subcontractor does not stop employing or contracting with the illegal alien; provided, however, that the Contractor will 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.
- 20.5.4. **Compliance with Investigation.** The Contractor will comply with any reasonable request by the Colorado Department of Labor and Employment made in the course of an investigation undertaken pursuant to Article 17.5 of Title 8, C.R.S.
- 20.5.5. **Violation.** If the Contractor violates this Section, the City may terminate this Contract for breach of contract and the Contractor will be liable for actual and consequential damages to the City.

20.6. Verification of Lawful Presence (C.R.S. § 24-76.5-103).

- 20.6.1. If the Contractor is a natural person, including a sole proprietor with or without employees (i.e., not a corporation, limited liability company, partnership or similar entity), and is 18 years of age or older, the Contractor must: (a) complete an affidavit containing the information required by C.R.S. § 24-76.5-103(4)(b); and (b) attach a photocopy of the front and back of a valid form of identification as required by C.R.S. § 24-76.5-103(4)(a).
- 20.6.2. If the Contractor executes the affidavit stating that he/she is an alien lawfully present in the United States, the City will verify his/her lawful presence through the federal systematic alien verification or entitlement program, known as the "SAVE Program," operated by the U.S. Department of Homeland Security ("DHS") or a successor program designated by DHS. If the City determines through the verification process that the Contractor is an alien not lawfully present in the United States, the City will terminate this Agreement without further obligation to Contractor.

ARTICLE 21 MISCELLANEOUS

- 21.1 **Federal Aid Provisions.** When the United States of America, acting through any of its duly constituted departments or agencies, provides funds to pay for any portion of the costs of Work performed under the Contract, the provisions of the Constitution, Laws of the United States and the rules and regulations promulgated by the department or agency thereof, pertaining to the utilization of such funds, shall be incorporated by reference as a part of the terms and conditions of the Contract and shall be observed by the Contractor.

When the United States of America is involved as a result of providing funds to support the Work of the Contract, it may assign observers or inspectors as it deems necessary to ensure that purposes for which the funds were provided are achieved. However, such activity by the United States does not make it a party to the Contract and shall not interfere with the rights of either the City or the Contractor.

- 21.2 **Duties & Remedies.** The duties and obligations imposed by, and rights and remedies available under, the Contract Documents shall be in addition to, and shall not be in any way construed to be a limitation of, any duties, obligations, rights, and remedies imposed by or available by law or contract.
- 21.3 **Survival.** All representations, warranties, and guarantees made in the Contract Documents shall survive Final Payment, Final Acceptance, and termination of the Contract for any reason.
- 21.4 **Government Immunity.** The City is relying on, and does not waive or intend to waive by any provision of this Contract, the monetary limitations or any other rights, immunities, and protections provided by the Colorado Governmental Immunity Act, §24-10-37, *et seq.*, 10 C.R.S., as from time to time amended, or otherwise available to City, its officers, or its employees.
- 21.5 **Colorado Open Records Act.** The City is a public entity subject to the Colorado Open Records Act, C.R.S. § 24-72-201, *et seq.*, and all Contract Documents and any documents or reports produced pursuant to this Contract, may be subject to public disclosure.
- 21.6 **Construction.** The provisions of the Contract shall be construed as to the ordinary meaning of the words used so as to fairly accomplish the purposes and intentions of all Parties, and not for or against any party based upon any attributes to such party of the source of the language in question. No term of this Agreement will be construed or resolved in favor of or against the City or Contractor on the basis of which party drafted the uncertain or ambiguous language. Where appropriate, the singular includes the plural and neutral words and words of any gender will include the neutral and other gender. All headings, captions and titles are for convenience and reference only and of no meaning in the interpretation or effect of the Contract.
- 21.7 **No Implied Representations.** No representations, agreements, covenant, warranties, or certifications, express or implied, exist as between the Parties, except as specifically set forth in the Contract.
- 21.8 **Financial Obligations of City.** All financial obligations of the City under the Contract are contingent upon appropriation, budgeting, and availability of specific funds to discharge such obligations. Nothing in the Contract shall be deemed a pledge of the City's credit, or a payment guarantee by the City to the Contractor.
- 21.9 **Assignment/Transference.** The Contractor may not assign or transfer any interest in the Contract, including any money due or to become due, without the express prior written consent of the City.
- 21.10 **Amendments.** The Parties shall only amend the Contract in writing with the proper official signatures and, if required elsewhere in this Contract, on the proper forms.
- 21.11 **Waiver.** The waiver of any breach of a term, provision or requirement of this Contract, including the failure to insist on strict compliance or to enforce any right or remedy, shall

not be construed or deemed as a waiver of: any subsequent breach of such term, provision or requirement or of any other term, provision or requirement; any right to insist on strict compliance with any term, provision or requirement; or any right to enforce any right or remedy with respect to that breach or any other prior, contemporaneous, or subsequent breach.

- 21.12 **No Third-Party Beneficiaries.** The enforcement of the terms and conditions of the Contract and all rights of action relating to such enforcement shall be strictly reserved to the Parties. The Parties expressly intend that any person other than the City and the Contractor shall be deemed to be only an incidental beneficiary under this Agreement.
- 21.13 **Independent Contractor – No Partnership or Agency.** Notwithstanding any language in the Contract Documents or any representation or warranty to the contrary, the relationship between the Contractor and the City shall be as independent contractors, and neither the City nor the Contractor shall be deemed or constitute an employee, servant, agent, partner or joint venturer of the other. The Contractor is obligated to pay federal and state income tax on any money earned pursuant to this Contract, and neither the Contractor nor its employees, agents, or representatives are entitled to workers' compensation benefits unemployment compensation benefits, sick and annual leave benefits, medical insurance, life insurance, or pension or retirement benefits from the City.
- 21.14 **Governing Law; Jurisdiction; Venue.** The Contract is governed and to be construed according to the laws of the State of Colorado without regard to its conflicts of laws provisions. For all claims arising out of or related to this Contract, the Contractor consents to the jurisdiction of and exclusive venue in the state courts in the County of Adams, State of Colorado. Contractor waives any exception to jurisdiction because of residence, including any right of removal based on diversity of citizenship.
- 21.15 **Attorney's Fees & Costs.** The prevailing party in any litigation to resolve a dispute between the Parties arising from this Contract will be entitled to recover court costs and reasonable attorney fees from the non-prevailing party.
- 21.16 **Binding Contract.** The Contract is binding upon the Parties and their respective heirs, executors, administrators, successors, and assigns.

ATTACHMENT F.

**CITY OF COMMERCE CITY
SPECIAL CONDITIONS
PROJECT NAME: 2024 SLURRY SEAL
PROJECT NO.: 2024-03-PW**

1. Liquidated Damages.

Liquidated damages assessed in accordance with the Contract Documents shall be at the rate of **\$500** per day.

2. No Liability for Consequential Damages.

The City shall not be liable to the Contractor, Surety or any subcontractor or supplier for consequential damages, including without limitation impairment of bonding capacity.

3. Builder's Risk

Builder's risk insurance will not be required.

4. Measurement.

Measurement of pay items subject to Unit Prices shall be **as shown on the Project Bid Schedule**

5. Licenses.

In addition to any licenses and permits required by law, the Contractor and any Subcontractor (if applicable to that Subcontractor's performance of Work) the following required licenses: **City of Commerce City Contractor's License.**

6. Holidays.

- | | |
|---------------------|------------------------|
| • January 1, 2024 | New Year's Day |
| • January 15, 2024 | Martin Luther King Day |
| • February 19, 2024 | President's Day |
| • May 27, 2024 | Memorial Day |
| • June 19, 2024 | Juneteenth |
| • July 4, 2024 | Independence Day |
| • September 2, 2024 | Labor Day |
| • November 11, 2024 | Veteran's Day |
| • November 28, 2024 | Thanksgiving Day |
| • November 29, 2024 | Day After Thanksgiving |
| • December 25, 2024 | Christmas Day |

When New Year's Day, Independence Day, or Christmas Day falls on a Sunday, the following Monday shall be considered a holiday. When one of these days falls on a Saturday, the preceding Friday shall be considered a holiday.

7. Project Communications

1. Communications Support: The City is responsible for implementing project-related communications, outreach and engagement activities for this project. The Contractor will be required to provide support to the City's CIP communications coordinator, unless otherwise designated by the City, to implement communications, outreach, engagement and information activities. The following is the contact information for the City's CIP communications coordinator:

Communications Coordinator

City of Commerce City | 7887 E. 60th Avenue | Commerce City, CO 80022

Office: 303-289-3600

Email: comsupport@c3gov.com

2. Communications Contact: The Contractor will provide a communications contact that is available every day, accessible and on-call by cell phone at all times and available upon request at other than normal working hours and during emergencies. The Contractor will review information and presentation materials for technical accuracy, approving content within forty-eight (48) hours of receipt.
3. Resident notification, consisting of placement of door hangers at each affected residence shall be completed by the Contractor. The door hangers will be developed and printed by the City for distribution by the Contractor at least three (3) days prior to the start of work.

8. Closures and Construction Impacts.

1. Low-capacity road or facility closures will be communicated to the City's CIP communication coordinator, not less than eight (8) days prior to the expected closure, so that the City can provide the public at least seven (7) days prior notice of the expected closure.
2. The Contractor will communicate high-capacity road closures, highway closures, night work with noise and light implications, or construction impacts to the public to the City's CIP communication coordinator, not less than fifteen (15) days prior to the expected closure, so that the City can provide the public with at least fourteen (14) days prior notice of the closure. High-capacity road closures, highway closures, night work with noise and light implications will require advanced written approval from the City.
3. The Contractor will communicate utility or construction impacts to the City's communication coordinator, not less than three (3) days prior to the expected impacts, so that the City can provide the public with at least forty-eight (48) hours prior notice of the expected impact.

9. **Coordination with Utilities.** All work with manholes and valve boxes will be coordinated with the South Adams County Water and Sanitation District. The name and contact number of the contact person will provided to the successful vendor.

10. Closures and Construction Impacts.

10.1. Low-capacity road or facility closures will be communicated to the City's CIP communication coordinator, not less than eight (8) days prior to the expected closure, so that the City can provide the public at least seven (7) days prior notice of the expected closure.

10.2. The Contractor will communicate utility or construction impacts to the City's communication coordinator not less than three (3) days prior to the expected impacts

to that the city can provide the public with at least forty-eight (48) hours prior notice of the expected impact.

11. **Daily Activity Log.** The Contractor shall be required to provide a detailed daily activity log. At minimum, the log shall contain the location(s) of all operations, in addition to whatever documentation requirements may be set forth in the General Conditions.
12. **Traffic Control Costs.** For some Project sites, the Contractor will be required to provide traffic control services in order to ensure that the Work is performed safely and in compliance with all applicable laws, regulations, plans, and specifications. Whenever traffic control services are required, Contractor shall provide a detailed description of the traffic control services to the City for each site where they are required. Invoices for traffic control services must be submitted to the City separately, and include a detailed accounting for the amount the Contractor claims it is owed for traffic control work. However, under no circumstances shall the total compensation due and owing to the Contractor for traffic control costs related to the Project exceed the total maximum estimate amount included in the Contractor's Bid Form.
13. **Permit and Use Tax.** The Contractor shall be responsible for obtaining all necessary permits and paying required permit fees. The Contractor shall be responsible for paying the City's Use Tax (Cost of Project x 60% x 4.5%).

ATTACHMENT G.

2024 SLURRY SEAL AND PAVEMENT REPAIR

2024-04-PW

PROJECT TECHNICAL SPECIFICATIONS

STANDARD SPECIFICATIONS

All Work required for the Project shall be in accordance with the latest edition of the COLORADO DEPARTMENT OF TRANSPORTATION (CDOT) Standard Specifications for Road and Bridge Construction, the CDOT M&S Standards, and the City of Commerce City's Engineering Standards and Specifications, except as modified herein.

PROJECT SPECIAL PROVISIONS

All changes to the CDOT Standard Specifications for Road and Bridge Construction, to include revisions, additions, deletions, terms and definitions, are contained in these Project Special Provisions. All bids and all construction shall be in accordance with these Specifications.

The following Project Special Provisions take precedence over Standard Specifications or Plans and supplement or amend the above referenced "Standard Specifications for Road and Bridge Construction".

SECTION 101
DEFINITIONS AND TERMS

Section 101 of the Standard Specifications is hereby revised for this project as follows:

All references to Resident Engineer shall mean the City Engineer.

All references to Engineer or Project Engineer shall mean the Project Manager.

All references to Region Transportation Director shall mean the City of Commerce City Director of Public Works.

All references to Department or CDOT shall mean the City of Commerce City Public Works Department.

All references to the City in these Project Special Provisions shall mean the City of Commerce City.

SECTION 102
BIDDING REQUIREMENTS AND CONDITIONS

Section 102 of the Standard Specifications is hereby revised for this project as follows:

Delete Subsection 102.01, Prequalification of Bidders

**SECTION 105
CONTROL OF WORK**

Section 105 of the Standard Specifications is hereby revised for this project as follows:

Delete Subsections 105.22, Dispute Resolution, 105.23 Dispute Review Board, and 105.24 Claims for Unresolved Disputes.

**SECTION 106
CONTROL OF MATERIAL**

Section 106 of the Standard Specifications is hereby revised for this project as follows:

Delete subsection 106.03 and replace with the following:

106.03 Samples, Tests, Cited Specifications.

Materials sampling and testing shall be performed at the expense of the Contractor. The Contractor shall employ an independent material testing company to sample and test the materials or the finished product in accordance with the Field Materials Manual. All materials sampling, testing and inspection shall be performed by certified field technicians who work under the supervision of a registered Professional Engineer in the State of Colorado. Acceptance will be based on the applicable requirements of Subsection 105. Any work in which untested and uninspected materials are used shall be performed at the Contractor's risk and may be considered as unacceptable and unauthorized work.

On a weekly basis, the Contractor shall furnish the Project Manager with copies of all test results taken that week and a cover letter, signed by the supervising registered Professional Engineer, which summarizes the results and discusses any failed tests or inconsistencies.

Unless otherwise designated, all specifications, standards or policies referenced in the Field Materials Manual shall be the latest edition as revised or updated by approved supplements published and issued prior to the date of the advertisement for bids.

106.08 Storage of Materials. Add the following:

The Contractor will not receive compensation for storage of topsoil or other materials generated onsite that are stored either onsite or offsite for later disposal or inclusion into the Work.

SECTION 107
LEGAL RELATIONS AND RESPONSIBILITY TO PUBLIC

Section 107 of the Standard Specifications is hereby revised for this project as follows:

107.02 **Permits, Licenses and Taxes.** Delete Subsection 107.02 and replace with the following:

The Contractor shall obtain all licenses and permits required to perform the Work. This refers to all permits required by the City as well as those required by County, State and Federal Agencies.

107.26 **Public Notification.** (Added Subsection)

Resident notification, consisting of placement of door hangers at each residence, shall be completed by the Contractor. The door hangers will be developed and printed by the City for distribution by the Contractor at least three (3) days prior to the start of work.

Other public notifications will be distributed by the City. The contractor shall be responsible to coordinate with City staff and inform the Project Manager, in a timely manner, of any change in schedule that may require a change in any public notification.

If parked vehicles on any streets interfere with work operations, the Contractor may tow the vehicle to a nearby location where it won't conflict with the work. Payment for towing of vehicles will be made under a Force Account.

**SECTION 403
HOT MIX ASPHALT**

Section 403 of the Standard Specifications is hereby revised for this project as follows:

403.03 Construction Requirements. Add the following:

Prior to construction, the City Project Manager and a Contractor representative shall walk each project location to identify the pavement repair locations. The City Project Manager or representative shall mark each repair location which corresponds to the plans. The Contractor shall not begin construction until the City Project Manager and Contractor agree with all marked repair locations.

**SECTION 410
SLURRY SEAL (AddedSection)**

410.1 Description

This Work shall consist of mixing properly proportioned mineral aggregate, asphalt emulsion, and water in a self-propelled mixer and spreading the mixture on an existing surface in accordance with these Specifications and in conformity with the lines shown on the plans or established. The slurry mixture, when cured, shall have a homogeneous appearance, fill all cracks and irregularities in the existing pavement surface, adhere firmly to the underlying pavement surface and have skid resistance texture.

MATERIALS

410.2 Asphalt Emulsion

The emulsified asphalt shall be CQS-1hL (Cationic Quick Setting Emulsified Asphalt with 3% Latex Polymer). CQS-1hL shall be an emulsified blend of asphalt, water, styrene-butadiene rubber (SBR) latex and emulsifiers. The emulsion shall be pumpable and suitable for use in slurry seal mixing and spreading equipment and suitable for application through a distributor truck. The emulsion shall contain a minimum of 3% by weight of styrene-butadiene rubber (SBR) polymer solids based on the weight of residual asphalt. The polymer shall be added as SBR latex by high shear mixing by co-milling or post-milling. The emulsified asphalt shall conform to the following requirements:

1. Property	Requirement		Test Method
	Min.	Max.	
Viscosity, Saybolt Furol, 77°F, s	20	50	ASTM D88
Storage stability test, 24-h, % ^A		1	ASTM D244 (§ 82 to 88)
Particle charge test		Positive	ASTM D244 (§ 28 to 33)
Sieve test, % ^A	0.1		ASTM D244 (§ 58 to 63)
Distillation ^B : Residue, %	60		ASTM D244 (§ 11 to 15)
2. Tests on residue from oven evaporation test (ASTM D244 § 21 to 27) B			
Penetration, 77°F, 100g, 5s	40	90	ASTM D5
Ductility, 77°F, 5 cm/min, cm	40		ASTM D113
Solubility in trichloroethylene, %	97.5		ASTM D2042
Elastic recovery, 77°F, 10cm, 1h, %	40		ASTM D6084

- A. This testing requirement on representative samples is waived if successful application of the material has been achieved in the field.
- B. Distillation to 500°F (D244 §11 to 15) shall be the reference method for percent distillate and percent residue. Residue by evaporation at 325°F (D244 §21 to 27) shall be the reference method to obtain material for tests on residue. Residue from distillation shall not be used for tests on residue due to polymer degradation at 500°F.

410.3

Aggregates

The aggregate shall consist of manufactured granite crusher fines. The smooth textured crusher fines shall have less than 1.25% water absorption. The aggregate shall be gray in color. The aggregate shall be clean and free from organic matter, other deleterious substances, and clay balls. Aggregate shall meet the following requirements:

The storage/stockpile site for aggregate will be the responsibility of the Contractor.

The total aggregate, including mineral filler, shall be tested and conform to the following requirements:

Sampling: Aggregate will be sampled per ASTM D75

Unit Weight of Aggregate from 0 to 5% moisture by (ASTM C29) Rodding Procedure

Project aggregates shall conform to these specifications and be within the stockpile tolerance of the aggregate used in the mix design.

Gradation: (ASTM C136 and ASTM C117)

Sieve Size	Percent Passing	Stockpile Tolerance
3/8"	100	0%
No. 4	90-100	±5%
No. 8	65-90	±5%
No. 16	45-70	±5%
No. 30	30-50	±5%
No. 50	18-30	±4%
No. 100	10-21	±3%
No. 200*	5-15	±2%

*Materials finer than No. 200 sieve will be determined by washing.

Oversized granular material and/or the presence of clay balls will be cause to halt the slurry seal operation. If oversized material is present, screening through a ¼-inch screen will be required prior to delivery of the material to the slurry machine. If clay balls are present, the aggregate will be rejected.

Resistance to Degradation	(ASTM C131)	30% maximum loss
Soundness of Aggregate	(ASTM C88)	15% maximum loss
Sand Equivalent Value	(ASTM D2419A)	60 minimum

The reference method for preparation of the sample shall be as follows: The aggregate shall be

oven-dried at 140°F to a constant weight and allowed to cool to room temperature. 2% of water based on weight of the aggregate shall be mixed with the aggregate and the aggregate/water mixture shall be sealed in a moisture proof and waterproof container for a minimum of 24 hours. Complete using ASTM D2419 Procedure B.

Mineral fillers such as Portland cement, limestone dust, lime, and fly ash shall be considered as part of the blended aggregate and shall be used in the amount required. They shall meet the gradation requirements of AASHTO M 17. Mineral fillers shall be approved by the Project Manager and shall be used for one or more of the following reasons only: to improve the gradation of the aggregate; to control the time of break of the emulsion; to provide improved stability and workability of the slurry; or to increase the durability of the cured slurry. (Use only materials as specified in the mix design.)

Acceptance of the aggregate will be determined at the job location stockpile. All stockpile testing shall be performed and submitted to the Project Manager prior to start of construction for acceptance. The aggregate shall be available for Quality Assurance testing three full working days prior to use. The aggregate shall be tested according to the schedule in the Field Materials Manual and acceptance will be determined in accordance with Section 105. If tests show the aggregate does not conform to the gradation requirements, the material shall not be used.

410.4 Water

Water used in making the slurry shall be potable and free of dissolved materials that may affect the mix characteristics or finished characteristics of the product. The effect of moisture content on the specific weight of the aggregate, and the moisture content of the aggregate being used, shall be taken into account in calibrating the machine to deliver slurry materials in the correct proportions.

CONSTRUCTION REQUIREMENTS

410.5 Equipment

All equipment, tools and machines to be used in the performance of this Work shall be maintained in satisfactory working order at all times. Any equipment found to be defective and potentially affecting the quality of the Work shall be replaced.

- **Slurry Mixing Equipment**

The slurry machine shall be a double-shafted continuous flow-mixing unit capable of delivering accurate predetermined proportions of aggregate, water, and asphalt emulsion to a revolving spiraled multi-blade mixer tank and of discharging the thoroughly mixed product on a continuous basis. The machine shall be capable of mixing materials in preset proportions regardless of the speed of the machine engine and without changing machine settings.

The aggregate shall be pre-wetted immediately prior to mixing with the emulsion. The mixing unit shall be capable of thoroughly blending all materials together without violent action. The mixing machine shall be equipped with suitable means of accurately metering each individual material being fed into the mixer. The units shall be equipped with approved devices so that the machine can be accurately calibrated, and the quantities of materials used during any one period measured.

The mixing machine shall be equipped with a water pressure system and fog-type spray

bar adequate for completely fogging the surface with up to 0.10 gallons per square yard immediately ahead of the spreading equipment. Application rates may be adjusted upon conditions or as directed by the Project Manager.

- **Slurry Spreading Equipment**

The spreader box shall be equipped to prevent loss of slurry seal from all sides and shall have a flexible rear strike off screed. It shall be capable of producing a uniform surface over its full width. The ability to regulate width of placement of new material is a desirable feature. It shall have suitable means for side tracking to compensate for deviations or irregularities in the pavement surface. The spreader box shall be furnished with a full-width burlap drag. Drags shall be kept in a completely flexible condition at all times. The box shall be kept clean and build-up of asphalt and aggregate shall not be permitted.

- **Cleaning Equipment**

Sweepers, power blowers, air compressors, water flushing equipment and hand brooms shall be suitable for cleaning the base pavement surface and cracks therein. Power brooms will only be allowed with the prior approval of the Project Manager.

- **Sweeping**

Streets shall be swept no more than twenty-four (24) hours prior to application of the slurry seal. Streets shall be swept after five (5) working days of the slurry seal application via a pick-up-or vacuum type sweeper.

410.6 Preparation of Surface

All streets shall be reasonably clean and free of debris. The Contractor shall be responsible for removing all loose and objectionable material, mud, and silt immediately prior to the application of the slurry seal. Areas of weed growth shall be removed by the Contractor's forces. Because all streets will be crack-sealed and patched prior to the slurry seal, large areas of weed growth are not anticipated. Minor street surface cleaning and weed removal will be considered incidental to the Work.

All manholes and valve boxes shall be covered during the application of the slurry seal and shall be clean when the Work is completed. The covering shall be removed as soon as possible following the slurry seal application. It is the responsibility of the Contractor to locate all manholes and valve boxes prior to slurry seal operations.

410.7 Mix Design

The Contractor shall submit a certified mix design covering the specific materials to be used on the Project. The design shall be prepared by an independent laboratory qualified in slurry seal mix design and testing. Once the materials are selected, no substitution will be permitted unless first tested and approved by the laboratory preparing the mix design. This mix design shall be prepared at the Contractor's expense and be submitted two (2) weeks prior to the start of any work.

The qualified laboratory shall develop the Project mix design and present certified test results to the Project Manager. Compatibility of the aggregate and emulsion shall be verified by the mix design. All component materials used in the mix design shall be representative of the material proposed by the Contractor for use on the Project.

The Project Manager shall review the mix design and all materials and methods prior to use. The

component materials shall be within the following limits:

Residual Asphalt	7.5% to 13.5% by dry weight of aggregate
Mineral Filler	0% to 3% by dry weight of aggregate
Additive	As required, to provide the specified properties
Water	As required, to produce proper mix consistency

Sources of all materials shall be selected and identified by the Contractor. All materials shall be pre-tested for the Contractor, at his expense, by a qualified laboratory as to their suitability for use in slurry and conformance with Project specifications.

The laboratory report will show the results of the tests performed on the individual materials, comparing their values to those required by this specification. The report will provide the following information:

Wet Track Abrasion Test – 6-day soak 1-hour soak test not allowed as a substitute	ISSA T100	75 g/ft ² max
Sand Adhesion by Loaded Wheel Tester	ISSA T109	50 g/ft ² max
Asphalt Content (based on dry aggregate)	ISSA A105	7.5% to 13.5%

Determination of Emulsion Content by Graphical Method ISSA T111

Trial Mix Characteristics:

A sufficient number of variations will be shown to provide the applicator with an indication of the effects of changing filler rate, additive rate, etc.

Mix Characteristics	ISSA T113/3.5	No excess free liquids in mix No excess dry or stiff mix
Mix Time at 77°F Mix Time at 100°F	ISSA T113/3.6 ISSA T113/3.6	180 seconds minimum 120 seconds minimum
Set Time at 77°F displacement	ISSA T113/3.7	30 minutes maximum
Clear Blot	ISSA T113/3.8	30 minutes maximum

Cured Serial Mix Evaluation (24-hr, 77°F cured mix from ISSA T113/16 – 30-second mix):

A sufficient number of variations will be shown to provide the applicator with an indication of the effects of changing filler rate, additive rate, etc.

Surface Examination	ISSA T113/4.1	No tackiness, No shininess
Fines Flotation	ISSA T113/4.2	No fines flotation
Internal Adhesion	ISSA T113/4.3	95% minimum coating, all size particles securely held in mix, no asphalt/aggregate segregation

Wet Stripping Test – modified to a 10-minute boiling period (ISSA T114) (24-hr, 77°F cured mix from ISSA T113/3.6 – 30-second mix)

A sufficient number of variations will be shown to provide the applicator with an indication of the effects of changing filler rate, additive rate, etc.

Coated aggregate Integrity	ISSA T114	95% minimum coating report: solid, broken, crumbly, etc.
Cohesion Values at 77°F	ISSA T139	30-min 60-min 2 hr. 4 hr. 24 hr.
		12 minimum report report report solid spin (26-in-lb)

Project Mix Recommendations and Comments:

Calculation of minimum slurry application rate for large stone embedment based on measured maximum aggregate size retained on the No. 4 sieve and bulk dry density by rodding procedure.

The laboratory shall report the quantitative effects of moisture content on the unit weight of the aggregate (bulking effect). The laboratory report must clearly show the proportions of aggregate, mineral filler (min. and max.), water (min. and max.), additive(s) (usage), and asphalt emulsion based on the dry aggregate weight.

A complete laboratory analysis and test report accompanied by abraded and unabraded slurry test samples shall be submitted by the Contractor a minimum of two (2) weeks prior to use. The Project Manager shall be allowed to observe all testing.

The Contractor will perform testing on materials and mix design proposed for the Project. This testing will be at the City’s expense. The Contractor shall supply material samples as needed at no expense to the City. In addition to the test shown above, the City shall use Schulze-Breuer- Ruck compatibility, methylene blue, cohesion, loaded wheel, and other tests it deems necessary to verify the quality of the slurry and its components.

410.8**Weather Limitations**

No slurry shall be applied:

1. When there is any danger the finished product will freeze before it cures completely.
2. When the pavement and/or air temperature is 60°F or below.
3. In the period following a rain event while puddles of water remain on the surface.

Slurries that cure by evaporation should not be placed during periods of abnormally high humidity or when rain may fall within four (4) hours of placement.

Slurry seal areas damaged by water (storm related events) shall be re-slurried as directed by the Project Manager. Costs associated with repairing water damaged areas and removal of asphalt emulsions from curbs, gutters, ditches, and lawns will be borne by the Contractor. The Contractor will be allowed to suspend work to minimize the potential for water damage to the slurry seal and surrounding facilities with an appropriate adjustment to Contract time.

410.9**Application**

The surface shall be fogged with water directly preceding the spreader, if required. The slurry mixture shall be of the desired consistency as it leaves the mixer and no additional elements shall be added. A sufficient amount of slurry shall be carried in all parts of the spreader at all times so that complete coverage is obtained. No lumping, balling, or unmixed aggregates will be permitted. No segregation of the emulsion and aggregate fines from the coarse aggregate will be permitted. If the coarse aggregate settles to the bottom of the mix, the slurry shall be removed from the pavement. No excessive breaking of the emulsion will be allowed in the spreader box. No streaks, as caused by oversized aggregate, will be left in the finished pavement.

No excessive build-up or unsightly appearance shall be permitted on longitudinal or transverse joints. Joints shall be straight and have a neat appearance. Drags shall be kept relatively clean and free of excessive build-up. Drags shall be replaced daily or more frequently as directed by the Project Manager.

Squeegees shall be used to spread the slurry in areas not accessible to the spreader box. Every effort shall be made to minimize segregation during handwork. Material shall be placed as close to final position as practicable to reduce the amount of handwork. Care shall be exercised to leave a pleasing appearance.

The mixture shall possess sufficient stability so that premature breaking of the material in the spreader box does not occur. The mixture shall be homogenous during and following mixing and spreading; it shall be free of excess water or emulsion and free of segregation of the emulsion and aggregate fines from the coarse aggregate.

Care shall be taken to ensure straight lines along curbs, shoulders, and joints. No runoff in these areas will be permitted. Lines at intersections shall be kept straight to provide a good appearance.

Slurry surfacing shall be completed within a time frame to allow opening of the roadway, parking lot, or other resurfaced area within normal working hours, while providing sufficient cure time.

In order to minimize rippling, slurry machines will NOT be permitted to travel at speeds in excess of 220 ft/min. The Project Manager may further reduce machine speed if excessive rippling of the surface occurs.

Care should be taken not to overlap slurry onto the concrete adjacent to the slurry area. The seam shall be sufficient to seal the joint between the pavement and the concrete. Any overlapping slurry shall be removed as directed by the Project Manager and costs associated with such removal shall be borne by the Contractor.

Application Rate

Proportions of the material components to be used will be set by the Project Manager, as well as the spread rate. These will be identified in the Project mix design. For purposes of estimating quantities for the Project, the following proportions and spread rates were assumed:

- Dry Aggregate Spread Rate= 18 lb/sq. yd.
- % Mineral Filler*= 1.00%
- % Asphalt Content*= 8.0%
- *By dry weight of aggregate

Application rates will be set by the Project Manager to match the approved mix design. The range of acceptable application rates are within plus or minus 10% (minimum and maximum) of the application rates set by the Project Manager. At the conclusion of the Project, emulsion, mineral filler and aggregate tickets will be compared with the area of slurry seal placed to determine the average coverage rate for the Project. Any material delivery tickets in excess of the maximum application rates will be subject to nonpayment. If material delivery tickets indicate that the average application rates were below the minimum application rates, the final payment will be reduced as shown below:

Amount Below Minimum Application Rate of Aggregate, Emulsion or Mineral Filler	Percent Reduction in Final Payment for Slurry Seal
1-3%	10%
3-5%	15%
5-7%	20%
7-10%	To be separated
10%+	No pay

The City will continually be checking quantities using run sheets. The Contractor shall provide the Project Manager with run sheets each day. The Contractor is encouraged to also check quantities with run sheets to avoid the payment reductions described above. Run sheets shall include the following: number of revolutions per truck placed, length and width of street segment and lbs. of aggregate per SY.

Ensuring proper spread rates and material proportions is solely the Contractor’s responsibility.

METHOD OF MEASUREMENT

410.10 Slurry seal will be measured by the square yard of surface area covered, complete in place. Asphalt emulsion, aggregates, fillers, additives, and water required to complete the Project will not be measured and paid for separately but shall be included in the Work.

BASIS OF PAYMENT

410.11 The accepted quantity will be paid for at the unit bid price for the slurry seal item.

Payment will be made under:

Pay Item	Pay Unit
Slurry Seal	Square Yard

**SECTION 630
CONSTRUCTION ZONE TRAFFIC CONTROL**

Section 630 of the Standard Specifications is hereby revised for this project as follows:

630.10 Traffic Control Plan. Add the following to the first paragraph of Subsection 630.10:

This project shall be considered to be a non-significant project for the purposes of this section.

630.10 Traffic Control Plan. Add the following to the third paragraph of Subsection 630.10 (a):

At a minimum, two (2) variable message signs will be placed on each end of the following roadways or subdivisions at least five (5) business days prior to the start of any Work in that location:

- River Run subdivision

Approval of the Method of Handling Traffic (MHT) by the City does not relieve the Contractor of traffic control liability specifically assigned to him under this Contract.

A copy of the approved MHT shall be available at the Project site in order that City personnel may verify compliance with the specified traffic control requirements.

630.12 Temporary Masking Signs. Add the following to Subsection 630.12:

All existing traffic control devices including traffic signals, signs, and pavement markings that are compatible with the construction zone traffic control shall remain visible and fully operational. If these devices are incompatible with the temporary construction, they shall be covered, relocated or removed.

Whenever the Contractor removes, obliterates or covers in any way, any pavement markings including lane lines and crosswalks, he shall install temporary tab markers, at a minimum spacing of 200 feet or as needed prior to opening the road to traffic.

630.17 Method of Measurement. Delete Subsection 630.17 and replace with the following:

Signs, barricades, traffic channelizing devices, variable message signs, flashing beacons (portable), method of handling traffic, traffic control supervisor, flagging and all other requirements of Section 630 are included in the pay item for Traffic Control Management unless they are identified in the Bid Schedule as separate pay items.

No payment will be made under Section 630 until the method of handling traffic (MHT) has been submitted and approved.

Traffic Control Management, as determined by the method of handling traffic (MHT), will be paid as follows: 50% of the Contract item amount upon first utilization, an additional 40% of the Contract item amount when 75% of the original Contract amount has been earned, and the final

10% when the Project has been accepted, in accordance with Subsection 105.21, exclusive of any maintenance periods.

630.18 **Basis of Payment.** Add the following to Subsection 630.18:

Pay Item	Pay Unit
Traffic Control Management	Lump Sum