

REQUEST FOR SEALED BIDS
FOR THE
CITY OF ALPENA PROJECT
2017 Resurfacing

February 2017

Prepared By:

City of Alpena
Engineering Department
208 N. First Avenue
Alpena, MI 49707
(989) 354-1730



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REQUEST FOR SEALED BIDS

2017 Resurfacing

The City of Alpena will receive sealed bids in the office of the City Clerk, Alpena City Hall, 208 N. First Avenue, Alpena, Michigan, 49707, until 2:00 p.m., Tuesday, March 14, 2017, for the 2017 Resurfacing .This project includes, but is not limited to, Cold Milling, Crushing and Shaping, HMA Surface and Thin Overlay

The bids shall be opened and read publicly and then referred to City Council for action at a regular Council meeting.

Beginning on February 27, 2017 , Drawings, Specifications, and other Contract documents may be obtained on the City of Alpena website at www.alpena.mi.us.

Questions regarding the bid contents should be directed to the City of Alpena Engineering Department via letter, written facsimile (989) 354-1709 or e-mail to engineer@alpena.mi.us.

The Contractor shall furnish all labor, equipment, and materials necessary to complete the work in accordance with the specifications.

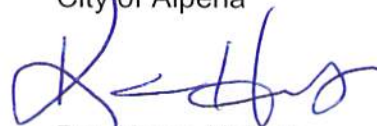
A bid bond provided by a surety company authorized to do business in the state, or the equivalent in cash, or otherwise supplied in a form satisfactory to the City for a sum of not less than five percent (5%) of the amount of the minimum base bid will be required with each proposal submitted where the cost estimated by the bidder exceeds \$35,000. The City reserves the right to require bid security for bids under \$35,000 when the circumstances warrant.

The City reserves the right to reject any and all bids and to waive irregularities in bids and to accept any bids which in the opinion of the City Council may be most advantageous to the City of Alpena and/or in accordance with the City's "Award Process" and other bidding documents.

Please pay particular attention to Section III., Award Process, A. Evaluation on page 9, as this language has changed.

Please mark your envelope "**SEALED BIDS – 2017 Resurfacing , March 14, 2017.**"

City of Alpena



By: Karen Hebert
City Clerk

ADVERTISEMENT

I. Sealed Bids Due

Sealed bids on forms prepared by the Engineer will be received by the City of Alpena at 208 N. First Avenue, Alpena, Michigan, 49707, until 2:00 p.m. (local time) on Tuesday, March 14, 2017, for the 2017 Resurfacing , in accordance with drawings, specifications, and other contract documents prepared by the City of Alpena Engineering Department.

II. Proposals Will be Publicly Opened and Read

At 2:00 p.m. (local time) on March 14, 2017, at 208 N. First Avenue, Alpena, Michigan, 49707. Bids received after the aforementioned time shall be considered late and returned to the submitting entity unopened.

III. Reviewing Documents

Drawings, specifications, and other contract documents may be reviewed at the following plan rooms:

City of Alpena
City Engineering Office
208 North First Av
Alpena, MI 49707

IV. Obtaining Contract Documents

Drawings, specifications, and other contract documents may be obtained on the City of Alpena website beginning on February 27, 2017 .

INSTRUCTIONS TO BIDDERS

I. Proposals Requested for Supply of the necessary materials, tools, and all of the equipment and labor necessary, and all utilities and transportation services required to be performed and completed in workmanlike manner all of the work shown in accordance with drawings, specifications, and other contract documents prepared by the City of Alpena:

- A. Proposal: To be considered, each bidder shall submit a COMPLETE proposal in response to this Request for Sealed Bids. No other distribution of proposals is to be made by the bidder. Each proposal shall be made on a form prepared by the Engineer and included as one of the contract documents and shall be submitted in a sealed envelope bearing the title of the work and the name of the Bidder.
- B. Discrepancies: In case of a difference between the stipulated amount of the proposal written in words and the stipulated amount written in figures, the stipulated amount stated in written words shall govern.
- C. Modifications: Proposals shall not contain any recapitulations of the work to be done. Alternate proposals will not be considered unless called for. Oral proposals or modifications will not be considered.
- D. Examination of Contract Documents and Visit to Site: Before submitting a proposal, Bidders shall carefully read the specifications and the other contract documents, shall visit the site of work and shall fully inform themselves as to all existing conditions and limitations and shall include in the proposal a sum to cover the cost of all items included in the contract documents.
- E. Delivery of Proposals: Proposals shall be delivered by the time and to the place stipulated in the Advertisement. It is the sole responsibility of the Bidder to see that his proposal is received in proper time. Any proposal received after the scheduled closing time for receipt of proposals shall be returned to the Bidder unopened.
- F. Withdrawal: Any Bidder may withdraw his proposal, either personally or by telegraphic or written request, at any time prior to the scheduled closing time for receipt of proposals.
- G. Opening: Proposals will be opened and publicly read aloud at the time and place set forth in the Advertisement.
- H. Award or Rejection: The contract will be awarded to the responsive and responsible bidder who offers the best value to the City of Alpena in compliance with the instructions herein and with the Advertisement. (See section "Award Process" in the "Instructions to Bidders".)

II. Interpretation of Documents

If any person contemplating submitting a proposal is in doubt as to the true meaning of any part of the specifications or other contract documents or finds discrepancies in or omissions from the drawings or specifications he may submit to the Engineer a written request for an interpretation or correction thereof. The person submitting the request will be responsible for the prompt delivery. All requests for information on the project shall be via, letter, written facsimile (989) 354-1709 or e-mail to engineer@alpena.mi.us.

In the event that information is transmitted other than by letter, facsimile, or email, answers furnished shall not be considered official until verified in writing by the City of Alpena.

The City of Alpena does not commit to answering questions during the last seven (7) workdays prior to sealed bid opening date.

Answers that change or substantially clarify the request for sealed bids or the specifications will be made only by Addendum duly issued and a copy of the Addendum will be mailed or delivered to each person receiving a set of the contract documents until seven (7) working days prior to date of sealed bid opening. Neither the Owner nor the Engineer will be responsible for any other explanations or interpretations of the contract documents.

III. Addenda

Any addenda issued during the time of bidding or forming a part of the contract documents loaned to the Bidder for the preparation of his proposal shall be covered in the proposal and shall be made a part of the contract. Receipt of each Addendum shall be acknowledged in the proposal. Information requests shall follow the procedure as above and must be received a minimum of seven (7) working days prior to bid letting date for sufficient time to issue an addendum if warranted.

IV. Bidders Interested in More Than One Proposal

No person, firm, or corporation shall be allowed to make, file, or be interested in more than one proposal for the same work, unless alternate proposals are called for. A person, firm or corporation who has submitted a sub-proposal to a Bidder or who has quoted prices on materials to a Bidder is not hereby disqualified from submitting a sub-proposal or quoting prices to other Bidders.

V. Correction or Withdrawal of Bids; Cancellation of Awards

Correction or withdrawal of inadvertently erroneous bids before or after bid opening, or cancellation of awards or contracts based on such bid mistake, may be permitted where appropriate. Mistakes discovered before bid opening may be modified or withdrawn by written or electronic notice received in the office designated in the invitation for bids prior to the time set for bid opening. After bid opening, corrections in bids shall be permitted only to the extent that the bidder can show by clear and convincing evidence that a mistake was made, the nature of the mistake, and the bid price actually intended. After bid opening, no changes in bid prices or other provisions of bids prejudicial to the interest of the City or fair competition shall be permitted. In lieu of bid correction, a low bidder alleging a material mistake of fact may be permitted to withdraw its bid if:

- A. the mistake is clearly evident on the face of the bid document but the intended correct bid is not similarly evident; or
- B. the bidder submits evidence which clearly and convincingly demonstrates that a mistake was made. All decisions to permit the correction or withdrawal of bids, or that cancel awards or contracts based on bid mistakes, shall be supported by a written determination made by the City Clerk.

VI. Performance Bond and Labor and Material Payment Bond

When a contract is awarded in excess of \$35,000, a Performance Bond and Labor and Material Payment Bond shall be required. These bonds or security shall be delivered to the City and shall become binding on the parties upon the execution of the contract.

- A. Performance Bond: A bond satisfactory to the City, executed by a surety company authorized to do business in the state or otherwise secured in a manner satisfactory to the City, in an amount equal to 100% of the price specified in the contract; and
- B. Labor and Material Payment Bond: A bond satisfactory to the City, executed by a surety company authorized to do business in the state or otherwise secured in a manner satisfactory to the City for the protection of all persons supplying labor and material to the contractor or its subcontractors for the performance of the work provided for in the contract. The bond shall be in an amount equal to 100% of the price specified in the contract.

The City reserves the right to require these bonds and security when the contract does not exceed \$35,000 when the circumstances warrant. The City further reserves the right to require, regardless of contract amount, additional bonds and security including, but not limited to, the bond required by sidewalk contractors when circumstances warrant.

VI. Contractor's Liability Insurance

The Construction Contractor shall maintain at its own expense during the term of this Contract the insurance coverage(s) where indicated by an [X]:

A. [X] Workers Compensation Insurance

1. Contractor shall maintain statutory workers compensation and employer's liability insurance. Limits shall be no less than \$ 500,000 for bodily injury by accident or \$500,000 each employee for bodily injury by disease, Dependent on the type of project the minimum coverage may be increased.
2. Waiver of Subrogation - Contractor waives all rights against the City of Alpena, its agents, public officials, employees, and volunteers for recovery of damages to the extent these damages are covered by workers compensation and employer's liability insurance obtained by the Contractor.
3. If Contractor is self-insured for purposes of workers compensation, the Contractor must submit a copy of a current letter, permit, or certification issued by the appropriate state agency.

B. [X] Commercial General Liability and Umbrella/Excess Liability Insurance:

1. [X] a. Contractor shall maintain commercial general liability (CGL), and, if necessary, commercial umbrella/excess insurance with a limit of not less than \$1,000,000 each occurrence/\$2,000,000 aggregate. If the CGL insurance contains a general aggregate limit, such limit shall apply separately to this project.

[] b. Projects of a larger scope that could or would impact the greater population may require a CGL of \$2,000,000 per occurrence and \$4,000,000 aggregate. The required amount of coverage will be included in the bid specifications.
2. CGL insurance shall cover liability arising from premises, operations, independent contractors, products-completed operations, personal injury and advertising injury, and liability assumed under an insured contract, including this contract.
3. City of Alpena shall be included as an additional insured under the CGL and under the commercial umbrella/excess, if any. This insurance shall apply as primary insurance with respect to any other insurance or self-insurance program afforded to the City of Alpena. **A copy of the certificate shall be provided to the City prior to the execution of the contract.** On the Additional Remarks Schedule of the certificate it shall state: "The City of Alpena is an Additional Insured on the noted policies with respect to any contract between the Named Insured and the Certificate Holder." A sample

Certificate of Liability Insurance form is attached to the end of this policy.

4. Waiver of subrogation - Contractor waives all rights against the City of Alpena and its agents, public officials, employees, and volunteers to the extent these damages are covered by the CGL or commercial umbrella liability maintained pursuant to this agreement.

C. Business Auto and Umbrella/Excess Liability Insurance:

1. Contractor shall maintain business auto liability and, if necessary, commercial umbrella/excess liability insurance with a limit of not less than \$1,000,000 each accident. Such insurance shall cover liability arising out of any auto, including owned, non-owned, and hired.
2. Waiver of subrogation - Contractor waives all rights against the City of Alpena and its agents, public officials, employees, and volunteers for recovery of damages to the extent these damages are covered by the business auto liability or commercial umbrella insurance obtained pursuant to this agreement.

D. Builder's Risk Insurance:

1. Contractor shall purchase and maintain builder's risk insurance on the Contractor shall purchase and maintain builder's risk insurance on the entire project. Such insurance shall be written in an amount equal to the contract sum. Insurance shall be written on a replacement costs basis. All approved change orders must be accompanied by an increase in the builder's risk limit of insurance at the time the change order is approved.
2. The insurance shall name as insured the Owner, General Contractor, Construction Manager, and all contractors and subcontractors undertaking the work.
3. The insurance shall cover the entire work at the site identified in this agreement, including reasonable compensation for architect's fees made necessary by an insured loss. Insured property shall include property on the site but not yet a part of the building, portions of the work located away from the site but intended for use at the site, and shall also cover portions of the work in transit. The policy shall include as insured property scaffolding and temporary buildings located at the site. The policy shall cover the cost of removing debris, including demolition as may be legally made necessary by operation of building laws and ordinances.
4. Contractor shall purchase and maintain boiler and machinery insurance, the insurance shall name as insured the Owner, General

Contractor, Construction Manager, and all contractors and subcontractors undertaking the work.

5. The insurance required in this section shall be written to cover “all risk” of physical loss except those specifically excluded in the policy.
6. A copy of the certificate shall be provided to the City prior to the execution of the contract. On the Additional Remarks Schedule of the certificate, it shall state: “The City of Alpena is an Additional Insured on the noted policies with respect to any contract between the Named Insured and the Certificate Holder.”

E. All the above insurance policies shall contain the following wording:

“It is agreed that this insurance shall not be cancelled, materially changed, or non-renewed without at least a sixty (60) day written notice to the City of Alpena at their principal mailing address.”

F. Insurance Company Approval and Certificates of Insurance:

Insurance Companies, additional insured endorsements, and policy forms shall be subject to the approval of the City of Alpena. Such approval shall not be unreasonably withheld. Contractor shall furnish the City Manager of the City of Alpena with certificates of insurance or a certified copy of the policy, if requested by the City Manager.

VIII. HOLD HARMLESS CLAUSE

The Contractor shall defend, pay on behalf of, and hold harmless the City of Alpena, its employees, agents, public officials, and volunteers from and against any and all losses, damages, expenses, claims, suits, and demand of whatever nature resulting from damages or injuries, including death, to any persons or property, and including any claim for losses incurred by reason of project delay, impact (soft) costs, or other intangible losses that might result from Contractor's late or defective performance, caused by or arising out of any action, omission, or operation performed in connection with work attributable to the Contractor, any Sub-contractor, any Sub-subcontractor, any material men, any of their respective employees, agents, servants, or representatives; provided, however, the Contractor shall not be required to indemnify the City of Alpena, its employees, agents, public officials, and volunteers for any damages or injuries, including death, to any person or property caused solely and exclusively by the negligence of the City of Alpena, its employees, public officials, and volunteers.

IX. Award Process

Responses to this request for sealed bids will be evaluated based upon the bidder's current ability to provide the highest level of service and quality product that meets the requirements and goals of this request for sealed bids and is in the best interest of the City.

- A. Evaluation: **All bidders must submit either a completed "Contractor's Qualification Statement" included at the end of this package or have submitted a Contractor's Qualification Statement within the past 3 years. If three or more years have passed since the submission of a Contractor's Qualification Statement, the contractor shall submit a Statement with this bid package.** The cover sheet and Sections 1 through 4 and Section 6 MUST be completed in their entirety. **Section 5 "Financing" need only be submitted upon request of the City of Alpena.** This document will be used in evaluating your request for sealed bids response. Failure to provide this information shall make the bid ineligible.

Bidders shall also submit unit cost and/or total project cost on the prepared proposal forms included.

- B. Past Performance: The City of Alpena reserves the right to evaluate the bidder's prior performance with the City of Alpena, and the prior performance information may be a factor in the award decision.
- C. Financial Stability: In making an award decision, the City of Alpena reserves the right to evaluate the financial stability of any bidder. The City of Alpena may seek financial information from the bidder via the "Financing" section of the "Contractor's Qualification Statement". If the City of Alpena determines in its sole discretion that contracting with a bidder presents an unacceptable risk to the City of Alpena, the City of Alpena reserves the right to not award a contract to that bidder.

D. Additional Steps: The City of Alpena, at its option, may engage other processes in order to make a final award decision:

1. Clarifications

If it is determined to be in the best interest of the City of Alpena and/or if a bidder's proposal is unclear, the City of Alpena may request from one or all bidders, a clarification. The City of Alpena will document, in writing, clarification being requested and forward to the bidders affected. This process does not allow for changes, rather to simply clarify the proposal submitted.

2. Site Visit

The City of Alpena may conduct a site visit to tour and inspect the bidder's facilities. The City of Alpena will schedule these visits, if required.

3. Pricing Negotiations

If it is determined that the pricing offered by bidders exceeds the budget or the cost expectation for the bid, the City of Alpena may enter into negotiations with the bidders on pricing only. No modification to the technical requirements or specifications will be allowed. If once a recommendation is made to award to a bidder, the City of Alpena, at its discretion, may engage in further pricing negotiations with the recommended bidder.

E. Method of Award: Award will be made to the responsive and responsible bidder who offers the best value to the City of Alpena. Best Value is determined by the bidder offering the best combination of the factors stated above in Sections IX-A through IX-D in the Instructions to Bidders section.

The City of Alpena reserves the right to reject any or all bids in whole or in part, and to waive any informality or technical defects, if it is determined by the City of Alpena that the best interest of the City of Alpena will be served by doing so. In determining an award, qualifications of the bidder, conformity with specification of goods and/or services to be supplied, cost, and delivery terms, and a bidder's past performance on City of Alpena contracts will be considered. Bidders in violation of City Ordinance at the time of the bid opening may be considered ineligible to contract with the City or the bid may be rejected entirely.

The City reserves the right to enact the Local Bidders Preference if the City determines that bidders in question have first satisfied the conditions set forth by sections A through D of the "IX Award Process" section. The City may grant an award to a *qualified* local bidder/vendor as defined below for an amount equal to the lowest bid submitted meeting specifications. The following businesses shall be given the opportunity to lower their overall bid amount if they are within the following percentages:

A. Alpena City businesses:

Within 7% for projects under \$100,000 and 5% for projects at or over \$100,000

- B. Alpena County businesses:
Within 5% for projects under \$100,000 and 3% for projects at or over \$100,000

City of Alpena businesses shall have priority over Alpena County businesses.

To be considered for local bidder preference, a local bidder/Vendor shall have met the following qualifications for at least one year prior to the date bid proposals are due:

1. Shall have a legal and permanent business address within Alpena County.
2. Shall be a personal property and real property taxpayer in Alpena County.
3. Shall be in compliance with all City Codes and Ordinances.
4. Shall not be indebted or in default to the City.

F. Available Funding: In the event the low responsive and responsible bid for a construction project exceeds available funds, the City Clerk or City staff under the direction of the City Clerk, is authorized when time or economic considerations preclude re-solicitation of work of a reduced scope, to negotiate an adjustment of the bid price with the low responsive and responsible bidder, in order to bring the bid within the amount of available funds. **Any such negotiated adjustment shall be based only upon eliminating independent deductive items specified in the request for bids and must be approved by the City Clerk or City Manager.**

G. Lawsuits and Arbitration: The City reserves the right not to award a contract to any individual, organization, contractor, or subcontractor who has filed any lawsuits or requested arbitration with regard to construction contracts within 5 years prior to the bid.

BID PROPOSAL

I. The Following Proposal is Hereby Made to:

The City of Alpena, 208 N. First Avenue, Alpena, Michigan, 49707.

II. Evaluation Section

Please attach pages in accordance with the section "Evaluation". Failure to provide this information shall make the bid ineligible.

III. Stipulated Amount

The Undersigned hereby proposes and agrees to furnish all necessary labor, tools, apparatus and other means of construction, and do all the work, for the unit prices named in the itemized bid to complete the work herein described for the City of Alpena all in accordance with the specifications and other contract documents prepared by the City of Alpena Engineering Department.

Prices and notations must be made on the bid sheets following this page in ink or typed. Prices shall be for new items only unless specified otherwise. Any form of pricing corrections made to the proposal by the bidder prior to submission should be initialed in ink by the person signing the proposal.

The City of Alpena shall perform a mathematical check. In the event that a total is incorrect for any one or more items, the unit price recorded for that item will be multiplied by the bid quantity to obtain a new item and project total.

City of Alpena

Schedule of Items (Itemized Bid Sheet)

Letting Date: Tuesday, March 14, 2017 2:00 PM

Contract ID: 2017-08
Location: 2017 Resurfacing
Description:

Project Number: 01-Johnson Street
Estimate Number: 1
Project Type: Resurfacing
Location: Chisholm (US 23) to College

Project Engineer: Rich Sullenger
Date Created: 2/23/2017
Fed/State #:
Fed Item:
Control Section:

Description:

Project Number: 02-Johnson Street - Alternate 1
Estimate Number: 1
Project Type: Resurfacing
Location: Woodward Ave to Miller Street

Project Engineer: Rich Sullenger
Date Created: 2/23/2017
Fed/State #:
Fed Item:
Control Section:

Description:

Project Number: 03-Second Avenue - Alternate 2
Estimate Number: 1
Project Type: Resurfacing
Location: Ripley to Bingham

Project Engineer: Rich Sullenger
Date Created: 2/23/2017
Fed/State #:
Fed Item:
Control Section:

Description:

Project Number: 04-Dunbar Street
Estimate Number: 1
Project Type: Resurfacing
Location: First To State (US23)

Project Engineer: Rich Sullenger
Date Created: 2/23/2017
Fed/State #:
Fed Item:
Control Section:

Description:

Project Number: 05-McDonalds Alley
Estimate Number: 1
Project Type: Resurfacing
Location: 13th Ave to 12th Ave
Between Chisholm and River

Project Engineer: Rich Sullenger
Date Created: 2/13/2017
Fed/State #:
Fed Item:
Control Section:

Description:

Project Number: 06-Alley
Estimate Number: 1

Project Engineer: Rich Sullenger
Date Created: 2/13/2017

Project Type: Resurfacing
Location: Fourth Ave to Third Ave
Between Lockwood and Chisholm

Fed/State #:
Fed Item:
Control Section:

Description:

Project Number: 07-Lewis Street
Estimate Number: 1
Project Type: Resurfacing
Location: Second Ave to First Ave

Project Engineer: Rich Sullenger
Date Created: 2/13/2017
Fed/State #:
Fed Item:
Control Section:

Description:

Project Number: 08-Franklin street
Estimate Number: 1
Project Type: Resurfacing
Location: from Ontario to Fifth

Project Engineer: Rich Sullenger
Date Created: 2/23/2017
Fed/State #:
Fed Item:
Control Section:

Description:

Project Number: 09-Long Rapids Plaza
Estimate Number: 1
Project Type: Resurfacing
Location: Long Rapids to end

Project Engineer: Rich Sullenger
Date Created: 2/23/2017
Fed/State #:
Fed Item:
Control Section:

Description:

Project Number: 10-Arbor Lane
Estimate Number: 1
Project Type: Resurfacing
Location: Long Rapids to end

Project Engineer: Rich Sullenger
Date Created: 2/23/2017
Fed/State #:
Fed Item:
Control Section:

Description:

Project Number: 11-Merchant Street
Estimate Number: 1
Project Type: Resurfacing
Location: Oldfield to Miller

Project Engineer: Rich Sullenger
Date Created: 2/23/2017
Fed/State #:
Fed Item:
Control Section:

Description:

Project Number: 12-Merchant - Alternate 3
Estimate Number: 1
Project Type: Resurfacing
Location: Miller to Lake

Project Engineer: Rich Sullenger
Date Created: 2/23/2017
Fed/State #:
Fed Item:
Control Section:

Description:

Project Number: 13-Merchant - Alternate 4
Estimate Number: 1
Project Type: Resurfacing
Location: Lake to Clark

Project Engineer: Rich Sullenger
Date Created: 2/23/2017
Fed/State #:
Fed Item:
Control Section:

Description:

Project Number: 14-Long Lake Avenue - Alternate 5
Estimate Number: 1
Project Type: Resurfacing
Location: Miller to Walnut

Project Engineer: Rich Sullenger
Date Created: 2/27/2017
Fed/State #:
Fed Item:
Control Section:

Description:

Instructions to Bidders: See Specifications

Pay Item	Description	Quantity	Units	Unit Price		Bid Amount		
				Dollars	Cts	Dollars	Cts	
Project #: 07-Lewis Street Second Ave to First Ave								
1500001	Mobilization, Max	1	LSUM					
2040020	Curb and Gutter, Rem	200	Ft					
2057021	_ Excavation, Earth, LM, Modified	10	Cyd					
2090001	Project Cleanup	1	LSUM					
3057011	_ HMA Base Crushing and Shaping, Modified	1,260	Syd					
4030004	Dr Structure Cover, Adj, Case 1, Modified	1	Ea					
5017031	_ HMA, 13A, Modified	210	Ton					
8020023	Curb and Gutter, Conc, Det C4	200	Ft					
8127051	_ Traffic Control	1	LSUM					
Project Total:								

Pay Item	Description	Quantity	Units	Unit Price		Bid Amount		
				Dollars	Cts	Dollars	Cts	
Project #: 06-Alley Fourth Ave to Third Ave Between Lockwood and Chisholm								
1500001	Mobilization, Max	1	LSUM					
2057021	_ Excavation, Earth, LM, Modified	100	Cyd					
2090001	Project Cleanup	1	LSUM					
3027031	_ Aggregate Base, 22A, Modified	200	Ton					
3057011	_ HMA Base Crushing and Shaping, Modified	450	Syd					
4030004	Dr Structure Cover, Adj, Case 1, Modified	4	Ea					
5017031	_ HMA, 13A, Modified	120	Ton					
8127051	_ Traffic Control	1	LSUM					
8247051	_ Staking, Shaping, and Grading	1	LSUM					
Project Total:								

Pay Item	Description	Quantity	Units	Unit Price		Bid Amount		
				Dollars	Cts	Dollars	Cts	
Project #: 05-McDonalds Alley 13th Ave to 12th Ave Between Chisholm and River								
1500001	Mobilization, Max	1	LSUM					
2050030	Machine Grading	2.64	Sta					
2057021	_ Excavation, Earth, LM, Modified	10	Cyd					
2090001	Project Cleanup	1	LSUM					
3027031	_ Aggregate Base, 22A, Modified	50	Ton					
5017031	_ HMA, 13A, Modified	85	Ton					
8127051	_ Traffic Control	1	LSUM					
8247051	_ Staking, Shaping, and Grading	1	LSUM					
Project Total:								

Pay Item	Description	Quantity	Units	Unit Price		Bid Amount		
				Dollars	Cts	Dollars	Cts	
Project #: 08-Franklin street from Ontario to Fifth								
1500001	Mobilization, Max	1	LSUM					
2090001	Project Cleanup	1	LSUM					
3057011	_ HMA Base Crushing and Shaping, Modified	1,200	Syd					
3077011	_ Shoulder, CI IV, 3 inch, Modified	230	Syd					
4030004	Dr Structure Cover, Adj, Case 1, Modified	1	Ea					
5017031	_ HMA, 13A, Modified	200	Ton					
8127051	_ Traffic Control	1	LSUM					
Project Total:								

Pay Item	Description	Quantity	Units	Unit Price		Bid Amount		
				Dollars	Cts	Dollars	Cts	
Project #: 04-Dunbar Street First To State (US23)								
1500001	Mobilization, Max	1	LSUM					
2090001	Project Cleanup	1	LSUM					
4030004	Dr Structure Cover, Adj, Case 1, Modified	1	Ea					
5010002	Cold Milling HMA Surface	1,150	Syd					
5017031	_ HMA, 13A, Modified	125	Ton					
8127051	_ Traffic Control	1	LSUM					
Project Total:								

Pay Item	Description	Quantity	Units	Unit Price		Bid Amount		
				Dollars	Cts	Dollars	Cts	
Project #: 01-Johnson Street Chisholm (US 23) to College								
1500001	Mobilization, Max	1	LSUM					
2090001	Project Cleanup	1	LSUM					
4030004	Dr Structure Cover, Adj, Case 1, Modified	8	Ea					
5010002	Cold Milling HMA Surface	7,650	Syd					
5017031	_ HMA, 13A, Modified	670	Ton					
8127051	_ Traffic Control	1	LSUM					
Project Total:								

Pay Item	Description	Quantity	Units	Unit Price		Bid Amount		
				Dollars	Cts	Dollars	Cts	
Project #: 02-Johnson Street - Alternate 1 Woodward Ave to Miller Street								
1500001	Mobilization, Max	1	LSUM					
2090001	Project Cleanup	1	LSUM					
4030004	Dr Structure Cover, Adj, Case 1, Modified	4	Ea					
5010002	Cold Milling HMA Surface	5,600	Syd					
5017031	_ HMA, 13A, Modified	490	Ton					
8127051	_ Traffic Control	1	LSUM					
Project Total:								

Pay Item	Description	Quantity	Units	Unit Price		Bid Amount		
				Dollars	Cts	Dollars	Cts	
Project #: 03-Second Avenue - Alternate 2 Ripley to Bingham								
1500001	Mobilization, Max	1	LSUM					
2040020	Curb and Gutter, Rem	50	Ft					
2090001	Project Cleanup	1	LSUM					
4030004	Dr Structure Cover, Adj, Case 1, Modified	8	Ea					
5010002	Cold Milling HMA Surface	2,628	Syd					
5017031	_ HMA, 13A, Modified	225	Ton					
8020023	Curb and Gutter, Conc, Det C4	50	Ft					
8127051	_ Traffic Control	1	LSUM					
Project Total:								

Pay Item	Description	Quantity	Units	Unit Price		Bid Amount		
				Dollars	Cts	Dollars	Cts	
Project #: 09-Long Rapids Plaza Long Rapids to end								
1500001	Mobilization, Max	1	LSUM					
3070145	Shoulder, CI III, 3 inch	920	Syd					
5017031	_ HMA, 13A, Modified	350	Ton					
5017031	_ HMA, 13A, Modified, Wedge Patching	50	Ton					
5017051	_ Street Cleaning	1	LSUM					
8127051	_ Traffic Control	1	LSUM					
8207050	_ Riser, Dr Structure, Install	3	Ea					
8207050	_ Riser, Water Valve, Install	1	Ea					
Project Total:								

Pay Item	Description	Quantity	Units	Unit Price		Bid Amount		
				Dollars	Cts	Dollars	Cts	
Project #: 10-Arbor Lane Long Rapids to end								
1500001	Mobilization, Max	1	LSUM					
3070145	Shoulder, CI III, 3 inch	220	Syd					
5017031	_ HMA, 13A, Modified	275	Ton					
5017051	_ Street Cleaning	1	LSUM					
8127051	_ Traffic Control	1	LSUM					
Project Total:								

Pay Item	Description	Quantity	Units	Unit Price		Bid Amount		
				Dollars	Cts	Dollars	Cts	
Project #: 11-Merchant Street Oldfield to Miller								
1500001	Mobilization, Max	1	LSUM					
2090001	Project Cleanup	1	LSUM					
3057011	_ HMA Base Crushing and Shaping, Modified	1,035	Syd					
3077011	_ Shoulder, CI IV, 3 inch, Modified	200	Syd					
4030004	Dr Structure Cover, Adj, Case 1, Modified	1	Ea					
5017031	_ HMA, 13A, Modified	200	Ton					
8127051	_ Traffic Control	1	LSUM					
Project Total:								

Pay Item	Description	Quantity	Units	Unit Price		Bid Amount		
				Dollars	Cts	Dollars	Cts	
Project #: 12-Merchant - Alternate 3 Miller to Lake								
1500001	Mobilization, Max	1	LSUM					
2090001	Project Cleanup	1	LSUM					
3057011	_ HMA Base Crushing and Shaping, Modified	1,000	Syd					
3077011	_ Shoulder, CI IV, 3 inch, Modified	200	Syd					
4030004	Dr Structure Cover, Adj, Case 1, Modified	2	Ea					
5017031	_ HMA, 13A, Modified	175	Ton					
8127051	_ Traffic Control	1	LSUM					
Project Total:								

Pay Item	Description	Quantity	Units	Unit Price		Bid Amount		
				Dollars	Cts	Dollars	Cts	
Project #: 13-Merchant - Alternate 4 Lake to Clark								
1500001	Mobilization, Max	1	LSUM					
2090001	Project Cleanup	1	LSUM					
3057011	_ HMA Base Crushing and Shaping, Modified	1,035	Syd					
3077011	_ Shoulder, CI IV, 3 inch, Modified	200	Syd					
5017031	_ HMA, 13A, Modified	200	Ton					
8127051	_ Traffic Control	1	LSUM					
Project Total:								

Pay Item	Description	Quantity	Units	Unit Price		Bid Amount		
				Dollars	Cts	Dollars	Cts	
Project #: 14-Long Lake Avenue - Alternate 5 Miller to Walnut								
1500001	Mobilization, Max	1	LSUM					
2090001	Project Cleanup	1	LSUM					
4030004	Dr Structure Cover, Adj, Case 1, Modified	15	Ea					
5010002	Cold Milling HMA Surface	3,820	Syd					
5017031	_ HMA, 13A, Modified	325	Ton					
8127051	_ Traffic Control	1	LSUM					
8230421	Water Shutoff, Adj, Case 1	2	Ea					
Project Total:								

Pay Item	Description	Quantity	Units	Unit Price		Bid Amount		
				Dollars	Cts	Dollars	Cts	
Total Bid:								

Contractor: _____

(Signature)

(Date)

IV. Addenda

The Undersigned hereby acknowledges receipt of the following addenda:

<u>Addenda No.</u>	<u>Dated</u>
_____	_____
_____	_____

V. Execution of Agreement and Furnishing Bonds

Within ten (10) days of receiving the prepared contract documents, the Undersigned agrees to execute the form of agreement included as part of the contract documents and to furnish a faithful performance bond in an amount equal to one hundred percent (100%) of the contract amount and a labor and material payment bond in an amount equal to one hundred percent (100%) of the contract amount.

VI. Subcontractor Acknowledgment

The Undersigned hereby acknowledges all subcontractors to be utilized on the above stated projects. The successful bidder agrees to bind every subcontractor by the terms of the contract documents. The City reserves the right to disqualify any potential subcontractor listed herein and any subcontractors which the contractor may elect to use on the project. The City reserves the right to require subcontractors to submit the information required in the section "Award Process". The contract documents shall not be construed as creating any contractual relation between any subcontractor and the Owner. All subcontractors shall be held accountable to the criteria and obligations as described by specifications and contract documents herein. Failure to list subcontractors may result in rejection of the bid.

<u>Subcontractor</u>	<u>Item of Work</u>
_____	_____
_____	_____
_____	_____
_____	_____

VII. Execution of Contract

A Contract will be executed with the responsive and responsible bidder who offers the best value to the City of Alpena upon approval by City Council.

VIII. Bid Price Guarantee

The bidder shall honor the individual bid prices and project bid total for a period of sixty (60) days following the bid submittal date.

IX. Contract Time

If awarded the contract, the Undersigned shall start work on the project within ten (10) days or on an agreed upon date after the receipt of the executed contract, which shall serve as the notice to proceed, and shall complete all work described in the contract by **June 1, 2017**. Five Hundred (\$500) dollars per day will be deducted from monies due the Contractor for each calendar day, exclusive of Sundays and holidays, that the work remains uncompleted beyond the completion date. Written extensions will be reviewed and may be approved by the City Engineer with justifications.

X. Owners Rights Reserved

The Undersigned understands that the Owner reserves the right to reject any or all proposals or to waive any formality or technicality in any proposal in the interest of the Owner in accordance with section "Award Process".

XI. Termination

The City shall have the right to terminate this contract with a ten (10) day written notice to the other party. If the Contractor fails to maintain continuous work practices or delays completion of the project, the City may consider this default of the Contract.

XII. This Proposal is Submitted By:

Company Name _____

By _____

Title _____

Address _____

City, State & Zip _____

Telephone No. _____

AGREEMENT

I. THIS AGREEMENT, made as of the _____ day of _____, 2017, by and between the City of Alpena, hereinafter called the OWNER, AND _____, hereinafter called the CONTRACTOR, WITNESSETH that whereas the CONTRACTOR intends to furnish all materials, tools, and all of the equipment and labor necessary, and all utilities and transportation services required to perform and complete in workmanlike manner all of the work shown being the **2017 Resurfacing** , hereinafter called the PROJECT, in accordance with the drawings, specifications, and other contract documents.

THE OWNER AGREES TO PAY and the CONTRACTOR agrees to accept, in full payment for the performance of this contract, the contract amount of:

_____ (\$ _____)

The contract amount listed above is based on unit prices for estimated quantities. Completed contract amount may vary.

NOW, THEREFORE, the OWNER and CONTRACTOR for the considerations hereinafter set forth, agree as follows:

II. THE CONTRACTOR AGREES to furnish all labor, materials, equipment, tools and services necessary to perform and complete in a workmanlike manner all work required for the construction of the project, in strict compliance with the contract documents herein mentioned, which are hereby made a part of the contract, including the following addenda:

<u>Addendum No.</u>	<u>Dated</u>
_____	_____
_____	_____

A. Contract Time: Work under this agreement shall start within ten (10) days or on an agreed upon date after the receipt of the executed contract, which shall serve as the notice to proceed and shall be completed by the following date: **June 1, 2017**. Five Hundred (\$500) dollars per day will be deducted from monies due the Contractor for each calendar day, exclusive of Sundays and holidays, that the work remains uncompleted beyond the completion date. Written extensions will be reviewed and may be approved by the City Engineer with justifications.

B. Subcontractors: The Contractor agrees to bind every subcontractor by the terms of the contract documents. The contract documents shall not be construed as creating any contractual relation between any subcontractor and the Owner. The contractor shall submit a written request and receive permission from the Engineer to use any subcontractor other than those

listed in Section VI of the Bid Proposal prior to that subcontractor working on the project.

III. THE OWNER AGREES to make and the Contractor agrees to accept payment in accordance with the unit price schedule of the proposal and in accordance with the provisions of the contract documents.

A. Progress payments will be made in accordance with the General Conditions of the contract.

IV. Contract Documents

The contract documents comprise the following general classifications of documents, including all additions, deletions and modifications incorporated therein before the execution of the agreement.

A. Bidding Documents

B. Contractual Documents

C. Standard General Conditions of the Construction Contract

D. Modifications to the Standard General Conditions of the Construction Contract

E. Performance Bond

F. Labor and Material Payment Bond

G. Special Provisions

- 1 Safety Requirements
- 2 Excavation, Earth, LM, Modified
- 3 Aggregate Base, 22A, Modified
- 4 HMA Base Crushing and Shaping, Modified
- 5 Adjusting Structures
- 6 Shoulder, CI IV, 3 inch, Modified
- 7 HMA Surface
- 8 HMA Application Estimate
- 9 Street Cleaning
- 10 Traffic Control
- 11 Riser Installation
- 12 Staking, shaping, and Grading

In the event that any provision of one contract document conflicts with the provision of another contract document, the provision in that contract document first listed below shall govern, except as otherwise specifically stated:

- A. Agreement (this instrument)
- B. Addenda to Contract Documents
- C. Remaining Legal and Procedural Documents
 - 1. Proposal
 - 2. Information for Bidders
 - 3. Advertisement
- D. Detailed Specification Requirements
- E. Drawings
- F. Modifications of the General Conditions of the Contract (Article 18)
- G. Standard General Conditions of the Construction Contract (Articles 1 through 17)
- H. Bonds
 - 1. Performance Bond
 - 2. Labor and Material Payment Bond
 - 3. Proposal Guaranty

VI. Authority and Responsibility of the Engineer

All work shall be done under the general observation of the Engineer. The Engineer shall decide any and all questions which may arise as to the quality and acceptability of materials furnished, work performed, rate of progress of work, interpretation of drawings and specifications and all questions as to the acceptable fulfillment of the contract on the part of the Contractor.

VII. Successors and Assigns

This agreement and all of the covenants hereof shall insure to the benefit of and be binding upon the Owner and the Contractor, respectively and his partners, successors, assigns and legal representatives. Neither the Owner nor the Contractor shall have the right to assign, transfer or sublet his interests or obligations hereunder without written consent of the other party.

VIII. Special Provisions

The Owner and the Contractor mutually agree that this agreement shall be subject to the Special Provisions, which shall supersede other conflicting provisions of the Agreement.

IX. Termination

The City shall have the right to terminate this contract with a ten (10) day written notice to the other party. If the Contractor fails to maintain continuous work practices or delays completion of the project, the City may consider this default of the Contract.

X. Agreement Execution

IN WITNESS WHEREOF, the parties have made and executed this agreement, the day and year first above written.

City of Alpena
OWNER

CONTRACTOR

By: _____
Matthew J. Waligora, Mayor Date

By: _____
Title

By: _____
Karen Hebert, City Clerk Date

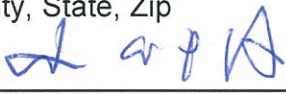
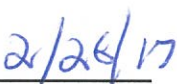
By: _____
Title

208 N. First Avenue
Business Address

Business Address

Alpena, MI 49707
City, State, Zip

City, State, Zip

William Pfeifer, City Attorney Date
(approved as to form only)

Business Telephone Number

PERFORMANCE BOND

The successful Bidder, simultaneously with the execution of the contract, will be required to furnish a faithful performance bond in amount equal to one hundred percent (100%) of the contract amount; said bond shall be secured from a surety company satisfactory to the Owner. The forms of the bond the successful Bidder will be required to execute are included in the contract documents.

I. KNOW ALL MEN BY THESE PRESENTS that _____ as Principal, hereinafter called Contractor, and _____ as Surety, hereinafter called Surety, are held and firmly bound unto _____ as Obligee, hereinafter called Owner, in the amount of (\$ _____) for the payment whereof Contractor and Surety bind themselves, their heirs, executors, administrators, successors and assigns, jointly and severally, firmly by these presents.

II. WHEREAS, Contractor has by written agreement dated _____, 2017, entered into a Contract with Owner for _____ in accordance with drawings and specifications prepared by _____, which contract is by reference made a part hereof, and is hereinafter referred to as the contract.

III. NOW, THEREFORE, THE CONDITION OF THIS OBLIGATION is such that, if Contractor shall promptly and faithfully perform said contract, then this obligation shall be null and void; otherwise it shall remain in full force and effect.

- A. The Surety hereby waives notice of any alteration or extension of time made by the Owner.
- B. Whenever contract shall be and declared by Owner to be in default under the contract, the Owner having performed Owner's obligations thereunder, the Surety may promptly remedy the default, or shall promptly.
 - 1. Complete the contract in accordance with its terms and conditions, or
 - 2. Obtain a bid or bids for submission to Owner for completing the contract in accordance with its terms and conditions and upon determination by Owner and Surety of the lowest responsible bidder arrange for a contract between such bidder and Owner and make available as work progresses (even though there should be a default or a succession of defaults under the contract or contracts of completion arranged under this 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 Owner to Contractor under the contract and any amendments thereto, less the amount properly paid by Owner to Contractor.

- C. Any suit under this bond must be instituted before the expiration of two (2) years from the date on which final payment under the contract falls due.
- D. No right of action shall accrue on this bond to or for the use of any person or corporation other than the Owner named herein or the heirs, executors, administrators or successors of the Owner.

IV. SIGNED AND SEALED this _____ day of _____ A.D. 2017

In the presence of:
(Seal)

Principal

Witness

Title

(Seal)

Witness

Title

LABOR AND MATERIAL PAYMENT BOND

I. KNOWN ALL MEN BY THESE PRESENT that _____ as Principal, hereinafter called Principal, and as Surety, hereinafter called Surety, are held and firmly bound unto _____ as Obligee, hereinafter called Owner, for the use and benefit of claimants as herein below defined, in the amount of (\$ _____) for the payment whereof Principal and Surety bind themselves, their heirs, executors, administrators, successors and assigns, jointly and severally, firmly by those presents.

II. WHEREAS, Principal has by written agreement dated _____, 2017, entered into a contract with Owner for _____ in accordance with drawings and specifications prepared by the City of Alpena Engineering Department, 208 N. First Avenue, Alpena, Michigan 49707, which contract is by reference made a part hereof, and is hereinafter referred to as the contract.

III. NOW, THEREFORE, THE CONDITION OF THIS OBLIGATION is such that if the Principal shall promptly make payment to all claimants as hereinafter defined, for all labor and material used or reasonably hereinafter defined, for all labor and material used or reasonably required for use in the performance of the contract, then this obligation shall be void; otherwise it shall remain in full force and effect, subject, however, to the following conditions:

- A. A claimant is defined as one having a direct contract with the Principal or with a subcontractor of the Principal for labor, material, or both, used or reasonably required for use in the performance of the contract, labor and material being construed to include that part of water, gas, power, light, heat, oil, gasoline, telephone service or equipment rental directly applicable to the contract.
- B. The above named Principal and Surety hereby jointly and severally agree with the Owner that every claimant as herein defined, who has not been paid in full before the expiration of a period of ninety (90) days after the date on which the last of such claimant's work or labor was done or performed, or materials were furnished by such claimant, may sue on this bond for the use of such claimant, prosecute the suit to final judgment for such sum or sums as may be justly due claimant, and have execution thereon. The Owner shall not be liable for the payment of any costs or expenses of any such suit.
- C. No suit or action shall be commenced hereunder by any claimant.
 - 1. Unless claimant, other than one having a direct contract with the Principal, shall have given written notice to any two of the following: the Principal, the Owner or the Surety above named, within ninety (90) days after such claimant did or performed the last of the work or labor, or furnished the last of the materials for which said claim is made, stating with substantial accuracy the amount claimed and the name of the party to whom the materials were furnished, or for

whom the work or labor was done or performed. Such notice shall be served by mailing the same by registered mail or certified mail, postage prepaid, in an envelope addressed to the Principal, Owner or transaction of business, or served in any manner in which legal process may be served in the state in which the aforesaid project is located, save that such service need not be made by a public officer.

2. After the expiration of one (1) year following the date on which Principal ceased work on said contract, it being understood, however, that if any limitation embodied in this bond is prohibited by any law controlling the construction hereof such limitation shall be deemed to be amended so as to be equal to the minimum period of limitation permitted by such law.
3. Other than in a state court of competent jurisdiction in and for the county or other political subdivision of the state in which the project, or any part thereof is situated, or in the United States District Court for the district in which the project, or any part thereof is situated, and not elsewhere.

D. The amount of this bond shall be reduced by and to the extent of the payment or payments made in good faith hereunder, inclusive of the payment by Surety of mechanics' liens which may be filed of record against said improvement, whether or not claim for the amount of such lien be presented under and against this bond.

IV. SIGNED AND SEALED this _____ day of _____ A.D. 2017

In the presence of:
(Seal)

Principal

Witness

Title

(Seal)

Surety

Witness

Title

This document has important legal consequences; consultation with an attorney is encouraged with respect to its use or modification. This document should be adapted to the particular circumstances of the contemplated Project and the controlling Laws and Regulations.

STANDARD GENERAL CONDITIONS OF THE CONSTRUCTION CONTRACT

Prepared by

ENGINEERS JOINT CONTRACT DOCUMENTS COMMITTEE

and

Issued and Published Jointly by



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A Practice Division of the

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Endorsed by



CONSTRUCTION SPECIFICATIONS INSTITUTE

These General Conditions have been prepared for use with the Suggested Forms of Agreement Between Owner and Contractor (EJCDC C-520 or C-525, 2007 Editions). Their provisions are interrelated and a change in one may necessitate a change in the other. Comments concerning their usage are contained in the Narrative Guide to the EJCDC Construction Documents (EJCDC C-001, 2007 Edition). For guidance in the preparation of Supplementary Conditions, see Guide to the Preparation of Supplementary Conditions (EJCDC C-800, 2007 Edition).

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1420 King Street, Alexandria, VA 22314-2794
(703) 684-2882
www.nspe.org

American Council of Engineering Companies
1015 15th Street N.W., Washington, DC 20005
(202) 347-7474
www.acec.org

American Society of Civil Engineers
1801 Alexander Bell Drive, Reston, VA 20191-4400
(800) 548-2723
www.asce.org

Associated General Contractors of America
2300 Wilson Boulevard, Suite 400, Arlington, VA 22201-3308
(703) 548-3118
www.agc.org

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STANDARD GENERAL CONDITIONS OF THE

EJCDC C-700 Standard General Conditions of the Construction Contract
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CONSTRUCTION CONTRACT

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DEFINITIONS AND TERMINOLOGY

Defined Terms

Wherever used in the Bidding Requirements or Contract Documents and printed with initial capital letters, the terms listed below will have the meanings indicated which are applicable to both the singular and plural thereof. In addition to terms specifically defined, terms with initial capital letters in the Contract Documents include references to identified articles and paragraphs, and the titles of other documents or forms.

Addenda—Written or graphic instruments issued prior to the opening of Bids which clarify, correct, or change the Bidding Requirements or the proposed Contract Documents.

Agreement—The written instrument which is evidence of the agreement between Owner and Contractor covering the Work.

Application for Payment—The form acceptable to Engineer which is to be used by Contractor during the course of the Work in requesting progress or final payments and which is to be accompanied by such supporting documentation as is required by the Contract Documents.

Asbestos—Any material that contains more than one percent asbestos and is friable or is releasing asbestos fibers into the air above current action levels established by the United States Occupational Safety and Health Administration.

Bid—The offer or proposal of a Bidder submitted on the prescribed form setting forth the prices for the Work to be performed.

Bidder—The individual or entity who submits a Bid directly to Owner.

Bidding Documents—The Bidding Requirements and the proposed Contract Documents (including all Addenda).

Bidding Requirements—The advertisement or invitation to bid, Instructions to Bidders, Bid security of acceptable form, if any, and the Bid Form with any supplements.

Change Order—A document recommended by Engineer which is signed by Contractor and Owner and authorizes an addition, deletion, or revision in the Work or an adjustment in the Contract Price or the Contract Times, issued on or after the Effective Date of the Agreement.

Claim—A demand or assertion by Owner or Contractor seeking an adjustment of Contract Price or Contract Times, or both, or other relief with respect to the terms of the Contract. A demand for money or services by a third party is not a Claim.

Contract—The entire and integrated written agreement between the Owner and Contractor concerning the Work. The Contract supersedes prior negotiations, representations, or agreements, whether written or oral.

Contract Documents—Those items so designated in the Agreement. Only printed or hard copies of the items listed in the Agreement are Contract Documents. Approved Shop

Drawings, other Contractor submittals, and the reports and drawings of subsurface and physical conditions are not Contract Documents.

Contract Price—The moneys payable by Owner to Contractor for completion of the Work in accordance with the Contract Documents as stated in the Agreement (subject to the provisions of Paragraph 11.03 in the case of Unit Price Work).

Contract Times—The number of days or the dates stated in the Agreement to: (i) achieve Milestones, if any; (ii) achieve Substantial Completion; and (iii) complete the Work so that it is ready for final payment as evidenced by Engineer's written recommendation of final payment.

Contractor—The individual or entity with whom Owner has entered into the Agreement.

Cost of the Work—See Paragraph 11.01 for definition.

Drawings—That part of the Contract Documents prepared or approved by Engineer which graphically shows the scope, extent, and character of the Work to be performed by Contractor. Shop Drawings and other Contractor submittals are not Drawings as so defined.

Effective Date of the Agreement—The date indicated in the Agreement on which it becomes effective, but if no such date is indicated, it means the date on which the Agreement is signed and delivered by the last of the two parties to sign and deliver.

Engineer—The individual or entity named as such in the Agreement.

Field Order—A written order issued by Engineer which requires minor changes in the Work but which does not involve a change in the Contract Price or the Contract Times.

General Requirements—Sections of Division 1 of the Specifications.

Hazardous Environmental Condition—The presence at the Site of Asbestos, PCBs, Petroleum, Hazardous Waste, or Radioactive Material in such quantities or circumstances that may present a substantial danger to persons or property exposed thereto.

Hazardous Waste—The term Hazardous Waste shall have the meaning provided in Section 1004 of the Solid Waste Disposal Act (42 USC Section 6903) as amended from time to time.

Laws and Regulations; Laws or Regulations—Any and all applicable laws, rules, regulations, ordinances, codes, and orders of any and all governmental bodies, agencies, authorities, and courts having jurisdiction.

Liens—Charges, security interests, or encumbrances upon Project funds, real property, or personal property.

Milestone—A principal event specified in the Contract Documents relating to an intermediate completion date or time prior to Substantial Completion of all the Work.

Notice of Award—The written notice by Owner to the Successful Bidder stating that upon timely compliance by the Successful Bidder with the conditions precedent listed therein, Owner will sign and deliver the Agreement.

Notice to Proceed—A written notice given by Owner to Contractor fixing the date on which the Contract Times will commence to run and on which Contractor shall start to perform the Work under the Contract Documents.

Owner—The individual or entity with whom Contractor has entered into the Agreement and for whom the Work is to be performed.

PCBs—Polychlorinated biphenyls.

Petroleum—Petroleum, including crude oil or any fraction thereof which is liquid at standard conditions of temperature and pressure (60 degrees Fahrenheit and 14.7 pounds per square inch absolute), such as oil, petroleum, fuel oil, oil sludge, oil refuse, gasoline, kerosene, and oil mixed with other non-Hazardous Waste and crude oils.

Progress Schedule—A schedule, prepared and maintained by Contractor, describing the sequence and duration of the activities comprising the Contractor's plan to accomplish the Work within the Contract Times.

Project—The total construction of which the Work to be performed under the Contract Documents may be the whole, or a part.

Project Manual—The bound documentary information prepared for bidding and constructing the Work. A listing of the contents of the Project Manual, which may be bound in one or more volumes, is contained in the table(s) of contents.

Radioactive Material—Source, special nuclear, or byproduct material as defined by the Atomic Energy Act of 1954 (42 USC Section 2011 et seq.) as amended from time to time.

Resident Project Representative—The authorized representative of Engineer who may be assigned to the Site or any part thereof.

Samples—Physical examples of materials, equipment, or workmanship that are representative of some portion of the Work and which establish the standards by which such portion of the Work will be judged.

Schedule of Submittals—A schedule, prepared and maintained by Contractor, of required submittals and the time requirements to support scheduled performance of related construction activities.

Schedule of Values—A schedule, prepared and maintained by Contractor, allocating portions of the Contract Price to various portions of the Work and used as the basis for reviewing Contractor's Applications for Payment.

Shop Drawings—All drawings, diagrams, illustrations, schedules, and other data or information which are specifically prepared or assembled by or for Contractor and submitted by Contractor to illustrate some portion of the Work.

Site—Lands or areas indicated in the Contract Documents as being furnished by Owner upon which the Work is to be performed, including rights-of-way and easements for access thereto, and such other lands furnished by Owner which are designated for the use of Contractor.

Specifications—That part of the Contract Documents consisting of written requirements for materials, equipment, systems, standards and workmanship as applied to the Work, and certain administrative requirements and procedural matters applicable thereto.

Subcontractor—An individual or entity having a direct contract with Contractor or with any other Subcontractor for the performance of a part of the Work at the Site.

Substantial Completion—The time at which the Work (or a specified part thereof) has progressed to the point where, in the opinion of Engineer, the Work (or a specified part thereof) is sufficiently complete, in accordance with the Contract Documents, so that the Work (or a specified part thereof) can be utilized for the purposes for which it is intended. The terms “substantially complete” and “substantially completed” as applied to all or part of the Work refer to Substantial Completion thereof.

Successful Bidder—The Bidder submitting a responsive Bid to whom Owner makes an award.

Supplementary Conditions—That part of the Contract Documents which amends or supplements these General Conditions.

Supplier—A manufacturer, fabricator, supplier, distributor, materialman, or vendor having a direct contract with Contractor or with any Subcontractor to furnish materials or equipment to be incorporated in the Work by Contractor or Subcontractor.

Underground Facilities—All underground pipelines, conduits, ducts, cables, wires, manholes, vaults, tanks, tunnels, or other such facilities or attachments, and any encasements containing such facilities, including those that convey electricity, gases, steam, liquid petroleum products, telephone or other communications, cable television, water, wastewater, storm water, other liquids or chemicals, or traffic or other control systems.

Unit Price Work—Work to be paid for on the basis of unit prices.

Work—The entire construction or the various separately identifiable parts thereof required to be provided under the Contract Documents. Work includes and is the result of performing or providing all labor, services, and documentation necessary to produce such construction, and furnishing, installing, and incorporating all materials and equipment into such construction, all as required by the Contract Documents.

Work Change Directive—A written statement to Contractor issued on or after the Effective Date of the Agreement and signed by Owner and recommended by Engineer ordering an addition, deletion, or revision in the Work, or responding to differing or unforeseen subsurface or physical conditions under which the Work is to be performed or to

emergencies. A Work Change Directive will not change the Contract Price or the Contract Times but is evidence that the parties expect that the change ordered or documented by a Work Change Directive will be incorporated in a subsequently issued Change Order following negotiations by the parties as to its effect, if any, on the Contract Price or Contract Times.

Terminology

The words and terms discussed in Paragraph 1.02.B through F are not defined but, when used in the Bidding Requirements or Contract Documents, have the indicated meaning.

Intent of Certain Terms or Adjectives:

The Contract Documents include the terms “as allowed,” “as approved,” “as ordered,” “as directed” or terms of like effect or import to authorize an exercise of professional judgment by Engineer. In addition, the adjectives “reasonable,” “suitable,” “acceptable,” “proper,” “satisfactory,” or adjectives of like effect or import are used to describe an action or determination of Engineer as to the Work. It is intended that such exercise of professional judgment, action, or determination will be solely to evaluate, in general, the Work for compliance with the information in the Contract Documents and with the design concept of the Project as a functioning whole as shown or indicated in the Contract Documents (unless there is a specific statement indicating otherwise). The use of any such term or adjective is not intended to and shall not be effective to assign to Engineer any duty or authority to supervise or direct the performance of the Work, or any duty or authority to undertake responsibility contrary to the provisions of Paragraph 9.09 or any other provision of the Contract Documents.

Day:

The word “day” means a calendar day of 24 hours measured from midnight to the next midnight.

Defective:

The word “defective,” when modifying the word “Work,” refers to Work that is unsatisfactory, faulty, or deficient in that it:

- a. does not conform to the Contract Documents; or
- b. does not meet the requirements of any applicable inspection, reference standard, test, or approval referred to in the Contract Documents; or
- c. has been damaged prior to Engineer’s recommendation of final payment (unless responsibility for the protection thereof has been assumed by Owner at Substantial Completion in accordance with Paragraph 14.04 or 14.05).

Furnish, Install, Perform, Provide:

The word “furnish,” when used in connection with services, materials, or equipment, shall mean to supply and deliver said services, materials, or equipment to the Site (or some other specified location) ready for use or installation and in usable or operable condition.

The word “install,” when used in connection with services, materials, or equipment, shall mean to put into use or place in final position said services, materials, or equipment complete and ready for intended use.

The words “perform” or “provide,” when used in connection with services, materials, or equipment, shall mean to furnish and install said services, materials, or equipment complete and ready for intended use.

When “furnish,” “install,” “perform,” or “provide” is not used in connection with services, materials, or equipment in a context clearly requiring an obligation of Contractor, “provide” is implied.

Unless stated otherwise in the Contract Documents, words or phrases that have a well-known technical or construction industry or trade meaning are used in the Contract Documents in accordance with such recognized meaning.

PRELIMINARY MATTERS

Delivery of Bonds and Evidence of Insurance

When Contractor delivers the executed counterparts of the Agreement to Owner, Contractor shall also deliver to Owner such bonds as Contractor may be required to furnish.

Evidence of Insurance: Before any Work at the Site is started, Contractor and Owner shall each deliver to the other, with copies to each additional insured identified in the Supplementary Conditions, certificates of insurance (and other evidence of insurance which either of them or any additional insured may reasonably request) which Contractor and Owner respectively are required to purchase and maintain in accordance with Article 5.

Copies of Documents

Owner shall furnish to Contractor up to ten printed or hard copies of the Drawings and Project Manual. Additional copies will be furnished upon request at the cost of reproduction.

Commencement of Contract Times; Notice to Proceed

The Contract Times will commence to run on the thirtieth day after the Effective Date of the Agreement or, if a Notice to Proceed is given, on the day indicated in the Notice to Proceed. A Notice to Proceed may be given at any time within 30 days after the Effective Date of the Agreement. In no event will the Contract Times commence to run later than the sixtieth day after the day of Bid opening or the thirtieth day after the Effective Date of the Agreement, whichever date is earlier.

Starting the Work

Contractor shall start to perform the Work on the date when the Contract Times commence to run. No Work shall be done at the Site prior to the date on which the Contract Times commence to run.

Before Starting Construction

Preliminary Schedules: Within 10 days after the Effective Date of the Agreement (unless otherwise specified in the General Requirements), Contractor shall submit to Engineer for timely review:

- a preliminary Progress Schedule indicating the times (numbers of days or dates) for starting and completing the various stages of the Work, including any Milestones specified in the Contract Documents;
- a preliminary Schedule of Submittals; and
- a preliminary Schedule of Values for all of the Work which includes quantities and prices of items which when added together equal the Contract Price and subdivides the Work into component parts in sufficient detail to serve as the basis for progress payments during performance of the Work. Such prices will include an appropriate amount of overhead and profit applicable to each item of Work.

Preconstruction Conference; Designation of Authorized Representatives

Before any Work at the Site is started, a conference attended by Owner, Contractor, Engineer, and others as appropriate will be held to establish a working understanding among the parties as to the Work and to discuss the schedules referred to in Paragraph 2.05.A, procedures for handling Shop Drawings and other submittals, processing Applications for Payment, and maintaining required records.

At this conference Owner and Contractor each shall designate, in writing, a specific individual to act as its authorized representative with respect to the services and responsibilities under the Contract. Such individuals shall have the authority to transmit instructions, receive information, render decisions relative to the Contract, and otherwise act on behalf of each respective party.

Initial Acceptance of Schedules

At least 10 days before submission of the first Application for Payment a conference attended by Contractor, Engineer, and others as appropriate will be held to review for acceptability to Engineer as provided below the schedules submitted in accordance with Paragraph 2.05.A. Contractor shall have an additional 10 days to make corrections and adjustments and to complete and resubmit the schedules. No progress payment shall be made to Contractor until acceptable schedules are submitted to Engineer.

The Progress Schedule will be acceptable to Engineer if it provides an orderly progression of the Work to completion within the Contract Times. Such acceptance will not impose on Engineer responsibility for the Progress Schedule, for sequencing, scheduling, or progress

of the Work, nor interfere with or relieve Contractor from Contractor's full responsibility therefor.

Contractor's Schedule of Submittals will be acceptable to Engineer if it provides a workable arrangement for reviewing and processing the required submittals.

Contractor's Schedule of Values will be acceptable to Engineer as to form and substance if it provides a reasonable allocation of the Contract Price to component parts of the Work.

CONTRACT DOCUMENTS: INTENT, AMENDING, REUSE

Intent

The Contract Documents are complementary; what is required by one is as binding as if required by all.

It is the intent of the Contract Documents to describe a functionally complete project (or part thereof) to be constructed in accordance with the Contract Documents. Any labor, documentation, services, materials, or equipment that reasonably may be inferred from the Contract Documents or from prevailing custom or trade usage as being required to produce the indicated result will be provided whether or not specifically called for, at no additional cost to Owner.

Clarifications and interpretations of the Contract Documents shall be issued by Engineer as provided in Article 9.

Reference Standards

Standards, Specifications, Codes, Laws, and Regulations

Reference to standards, specifications, manuals, or codes of any technical society, organization, or association, or to Laws or Regulations, whether such reference be specific or by implication, shall mean the standard, specification, manual, code, or Laws or Regulations in effect at the time of opening of Bids (or on the Effective Date of the Agreement if there were no Bids), except as may be otherwise specifically stated in the Contract Documents.

No provision of any such standard, specification, manual, or code, or any instruction of a Supplier, shall be effective to change the duties or responsibilities of Owner, Contractor, or Engineer, or any of their subcontractors, consultants, agents, or employees, from those set forth in the Contract Documents. No such provision or instruction shall be effective to assign to Owner, Engineer, or any of their officers, directors, members, partners, employees, agents, consultants, or subcontractors, any duty or authority to supervise or direct the performance of the Work or any duty or authority to undertake responsibility inconsistent with the provisions of the Contract Documents.

Reporting and Resolving Discrepancies

Reporting Discrepancies:

Contractor's Review of Contract Documents Before Starting Work: Before undertaking each part of the Work, Contractor shall carefully study and compare the Contract Documents and check and verify pertinent figures therein and all applicable field measurements. Contractor shall promptly report in writing to Engineer any conflict, error, ambiguity, or discrepancy which Contractor discovers, or has actual knowledge of, and shall obtain a written interpretation or clarification from Engineer before proceeding with any Work affected thereby.

Contractor's Review of Contract Documents During Performance of Work: If, during the performance of the Work, Contractor discovers any conflict, error, ambiguity, or discrepancy within the Contract Documents, or between the Contract Documents and (a) any applicable Law or Regulation, (b) any standard, specification, manual, or code, or (c) any instruction of any Supplier, then Contractor shall promptly report it to Engineer in writing. Contractor shall not proceed with the Work affected thereby (except in an emergency as required by Paragraph 6.16.A) until an amendment or supplement to the Contract Documents has been issued by one of the methods indicated in Paragraph 3.04.

Contractor shall not be liable to Owner or Engineer for failure to report any conflict, error, ambiguity, or discrepancy in the Contract Documents unless Contractor had actual knowledge thereof.

Resolving Discrepancies:

Except as may be otherwise specifically stated in the Contract Documents, the provisions of the Contract Documents shall take precedence in resolving any conflict, error, ambiguity, or discrepancy between the provisions of the Contract Documents and:

- d. the provisions of any standard, specification, manual, or code, or the instruction of any Supplier (whether or not specifically incorporated by reference in the Contract Documents); or
- e. the provisions of any Laws or Regulations applicable to the performance of the Work (unless such an interpretation of the provisions of the Contract Documents would result in violation of such Law or Regulation).

Amending and Supplementing Contract Documents

The Contract Documents may be amended to provide for additions, deletions, and revisions in the Work or to modify the terms and conditions thereof by either a Change Order or a Work Change Directive.

The requirements of the Contract Documents may be supplemented, and minor variations and deviations in the Work may be authorized, by one or more of the following ways:

1. A Field Order;

Engineer's approval of a Shop Drawing or Sample (subject to the provisions of Paragraph 6.17.D.3); or

Engineer's written interpretation or clarification.

Reuse of Documents

Contractor and any Subcontractor or Supplier shall not:

have or acquire any title to or ownership rights in any of the Drawings, Specifications, or other documents (or copies of any thereof) prepared by or bearing the seal of Engineer or its consultants, including electronic media editions; or

reuse any such Drawings, Specifications, other documents, or copies thereof on extensions of the Project or any other project without written consent of Owner and Engineer and specific written verification or adaptation by Engineer.

The prohibitions of this Paragraph 3.05 will survive final payment, or termination of the Contract. Nothing herein shall preclude Contractor from retaining copies of the Contract Documents for record purposes.

Electronic Data

Unless otherwise stated in the Supplementary Conditions, the data furnished by Owner or Engineer to Contractor, or by Contractor to Owner or Engineer, that may be relied upon are limited to the printed copies (also known as hard copies). Files in electronic media format of text, data, graphics, or other types are furnished only for the convenience of the receiving party. Any conclusion or information obtained or derived from such electronic files will be at the user's sole risk. If there is a discrepancy between the electronic files and the hard copies, the hard copies govern.

Because data stored in electronic media format can deteriorate or be modified inadvertently or otherwise without authorization of the data's creator, the party receiving electronic files agrees that it will perform acceptance tests or procedures within 60 days, after which the receiving party shall be deemed to have accepted the data thus transferred. Any errors detected within the 60-day acceptance period will be corrected by the transferring party.

When transferring documents in electronic media format, the transferring party makes no representations as to long term compatibility, usability, or readability of documents resulting from the use of software application packages, operating systems, or computer hardware differing from those used by the data's creator.

AVAILABILITY OF LANDS; SUBSURFACE AND PHYSICAL CONDITIONS; HAZARDOUS ENVIRONMENTAL CONDITIONS; REFERENCE POINTS

Availability of Lands

Owner shall furnish the Site. Owner shall notify Contractor of any encumbrances or restrictions not of general application but specifically related to use of the Site with which Contractor must comply in performing the Work. Owner will obtain in a timely manner and pay for easements for permanent structures or permanent changes in existing facilities. If Contractor and Owner are unable to agree on entitlement to or on the amount or extent, if any, of any adjustment in the

Contract Price or Contract Times, or both, as a result of any delay in Owner's furnishing the Site or a part thereof, Contractor may make a Claim therefor as provided in Paragraph 10.05.

Upon reasonable written request, Owner shall furnish Contractor with a current statement of record legal title and legal description of the lands upon which the Work is to be performed and Owner's interest therein as necessary for giving notice of or filing a mechanic's or construction lien against such lands in accordance with applicable Laws and Regulations.

Contractor shall provide for all additional lands and access thereto that may be required for temporary construction facilities or storage of materials and equipment.

Subsurface and Physical Conditions

Reports and Drawings: The Supplementary Conditions identify:

those reports known to Owner of explorations and tests of subsurface conditions at or contiguous to the Site; and

those drawings known to Owner of physical conditions relating to existing surface or subsurface structures at the Site (except Underground Facilities).

Limited Reliance by Contractor on Technical Data Authorized: Contractor may rely upon the accuracy of the "technical data" contained in such reports and drawings, but such reports and drawings are not Contract Documents. Such "technical data" is identified in the Supplementary Conditions. Except for such reliance on such "technical data," Contractor may not rely upon or make any claim against Owner or Engineer, or any of their officers, directors, members, partners, employees, agents, consultants, or subcontractors with respect to:

the completeness of such reports and drawings for Contractor's purposes, including, but not limited to, any aspects of the means, methods, techniques, sequences, and procedures of construction to be employed by Contractor, and safety precautions and programs incident thereto; or

other data, interpretations, opinions, and information contained in such reports or shown or indicated in such drawings; or

any Contractor interpretation of or conclusion drawn from any "technical data" or any such other data, interpretations, opinions, or information.

Differing Subsurface or Physical Conditions

Notice: If Contractor believes that any subsurface or physical condition that is uncovered or revealed either:

is of such a nature as to establish that any "technical data" on which Contractor is entitled to rely as provided in Paragraph 4.02 is materially inaccurate; or

is of such a nature as to require a change in the Contract Documents; or

differs materially from that shown or indicated in the Contract Documents; or

is of an unusual nature, and differs materially from conditions ordinarily encountered and generally recognized as inherent in work of the character provided for in the Contract Documents;

then Contractor shall, promptly after becoming aware thereof and before further disturbing the subsurface or physical conditions or performing any Work in connection therewith (except in an emergency as required by Paragraph 6.16.A), notify Owner and Engineer in writing about such condition. Contractor shall not further disturb such condition or perform any Work in connection therewith (except as aforesaid) until receipt of written order to do so.

Engineer's Review: After receipt of written notice as required by Paragraph 4.03.A, Engineer will promptly review the pertinent condition, determine the necessity of Owner's obtaining additional exploration or tests with respect thereto, and advise Owner in writing (with a copy to Contractor) of Engineer's findings and conclusions.

Possible Price and Times Adjustments:

The Contract Price or the Contract Times, or both, will be equitably adjusted to the extent that the existence of such differing subsurface or physical condition causes an increase or decrease in Contractor's cost of, or time required for, performance of the Work; subject, however, to the following:

- a. such condition must meet any one or more of the categories described in Paragraph 4.03.A; and
- b. with respect to Work that is paid for on a unit price basis, any adjustment in Contract Price will be subject to the provisions of Paragraphs 9.07 and 11.03.

Contractor shall not be entitled to any adjustment in the Contract Price or Contract Times if:

- c. Contractor knew of the existence of such conditions at the time Contractor made a final commitment to Owner with respect to Contract Price and Contract Times by the submission of a Bid or becoming bound under a negotiated contract; or
- d. the existence of such condition could reasonably have been discovered or revealed as a result of any examination, investigation, exploration, test, or study of the Site and contiguous areas required by the Bidding Requirements or Contract Documents to be conducted by or for Contractor prior to Contractor's making such final commitment; or
- e. Contractor failed to give the written notice as required by Paragraph 4.03.A.

If Owner and Contractor are unable to agree on entitlement to or on the amount or extent, if any, of any adjustment in the Contract Price or Contract Times, or both, a Claim may be made therefor as provided in Paragraph 10.05. However, neither Owner or Engineer, or any of their officers, directors, members, partners, employees, agents, consultants, or subcontractors shall be liable to Contractor for any claims, costs, losses, or damages (including but not limited to all fees and charges of engineers, architects, attorneys, and other professionals and all court or arbitration or other dispute resolution costs) sustained by Contractor on or in connection with any other project or anticipated project.

Underground Facilities

Shown or Indicated: The information and data shown or indicated in the Contract Documents with respect to existing Underground Facilities at or contiguous to the Site is based on information and data furnished to Owner or Engineer by the owners of such Underground Facilities, including Owner, or by others. Unless it is otherwise expressly provided in the Supplementary Conditions:

Owner and Engineer shall not be responsible for the accuracy or completeness of any such information or data provided by others; and

the cost of all of the following will be included in the Contract Price, and Contractor shall have full responsibility for:

- f. reviewing and checking all such information and data;
- g. locating all Underground Facilities shown or indicated in the Contract Documents;
- h. coordination of the Work with the owners of such Underground Facilities, including Owner, during construction; and
- i. the safety and protection of all such Underground Facilities and repairing any damage thereto resulting from the Work.

Not Shown or Indicated:

If an Underground Facility is uncovered or revealed at or contiguous to the Site which was not shown or indicated, or not shown or indicated with reasonable accuracy in the Contract Documents, Contractor shall, promptly after becoming aware thereof and before further disturbing conditions affected thereby or performing any Work in connection therewith (except in an emergency as required by Paragraph 6.16.A), identify the owner of such Underground Facility and give written notice to that owner and to Owner and Engineer. Engineer will promptly review the Underground Facility and determine the extent, if any, to which a change is required in the Contract Documents to reflect and document the

consequences of the existence or location of the Underground Facility. During such time, Contractor shall be responsible for the safety and protection of such Underground Facility.

If Engineer concludes that a change in the Contract Documents is required, a Work Change Directive or a Change Order will be issued to reflect and document such consequences. An equitable adjustment shall be made in the Contract Price or Contract Times, or both, to the extent that they are attributable to the existence or location of any Underground Facility that was not shown or indicated or not shown or indicated with reasonable accuracy in the Contract Documents and that Contractor did not know of and could not reasonably have been expected to be aware of or to have anticipated. If Owner and Contractor are unable to agree on entitlement to or on the amount or extent, if any, of any such adjustment in Contract Price or Contract Times, Owner or Contractor may make a Claim therefor as provided in Paragraph 10.05.

Reference Points

Owner shall provide engineering surveys to establish reference points for construction which in Engineer's judgment are necessary to enable Contractor to proceed with the Work. Contractor shall be responsible for laying out the Work, shall protect and preserve the established reference points and property monuments, and shall make no changes or relocations without the prior written approval of Owner. Contractor shall report to Engineer whenever any reference point or property monument is lost or destroyed or requires relocation because of necessary changes in grades or locations, and shall be responsible for the accurate replacement or relocation of such reference points or property monuments by professionally qualified personnel.

Hazardous Environmental Condition at Site

Reports and Drawings: The Supplementary Conditions identify those reports and drawings known to Owner relating to Hazardous Environmental Conditions that have been identified at the Site.

Limited Reliance by Contractor on Technical Data Authorized: Contractor may rely upon the accuracy of the "technical data" contained in such reports and drawings, but such reports and drawings are not Contract Documents. Such "technical data" is identified in the Supplementary Conditions. Except for such reliance on such "technical data," Contractor may not rely upon or make any claim against Owner or Engineer, or any of their officers, directors, members, partners, employees, agents, consultants, or subcontractors with respect to:

the completeness of such reports and drawings for Contractor's purposes, including, but not limited to, any aspects of the means, methods, techniques, sequences and procedures of construction to be employed by Contractor and safety precautions and programs incident thereto; or

other data, interpretations, opinions and information contained in such reports or shown or indicated in such drawings; or

any Contractor interpretation of or conclusion drawn from any "technical data" or any such other data, interpretations, opinions or information.

Contractor shall not be responsible for any Hazardous Environmental Condition uncovered or revealed at the Site which was not shown or indicated in Drawings or Specifications or identified in the Contract Documents to be within the scope of the Work. Contractor shall be responsible for a Hazardous Environmental Condition created with any materials brought to the Site by Contractor, Subcontractors, Suppliers, or anyone else for whom Contractor is responsible.

If Contractor encounters a Hazardous Environmental Condition or if Contractor or anyone for whom Contractor is responsible creates a Hazardous Environmental Condition, Contractor shall immediately: (i) secure or otherwise isolate such condition; (ii) stop all Work in connection with such condition and in any area affected thereby (except in an emergency as required by Paragraph 6.16.A); and (iii) notify Owner and Engineer (and promptly thereafter confirm such notice in writing). Owner shall promptly consult with Engineer concerning the necessity for Owner to retain a qualified expert to evaluate such condition or take corrective action, if any. Promptly after consulting with Engineer, Owner shall take such actions as are necessary to

permit Owner to timely obtain required permits and provide Contractor the written notice required by Paragraph 4.06.E.

Contractor shall not be required to resume Work in connection with such condition or in any affected area until after Owner has obtained any required permits related thereto and delivered written notice to Contractor: (i) specifying that such condition and any affected area is or has been rendered safe for the resumption of Work; or (ii) specifying any special conditions under which such Work may be resumed safely. If Owner and Contractor cannot agree as to entitlement to or on the amount or extent, if any, of any adjustment in Contract Price or Contract Times, or both, as a result of such Work stoppage or such special conditions under which Work is agreed to be resumed by Contractor, either party may make a Claim therefor as provided in Paragraph 10.05.

If after receipt of such written notice Contractor does not agree to resume such Work based on a reasonable belief it is unsafe, or does not agree to resume such Work under such special conditions, then Owner may order the portion of the Work that is in the area affected by such condition to be deleted from the Work. If Owner and Contractor cannot agree as to entitlement to or on the amount or extent, if any, of an adjustment in Contract Price or Contract Times as a result of deleting such portion of the Work, then either party may make a Claim therefor as provided in Paragraph 10.05. Owner may have such deleted portion of the Work performed by Owner's own forces or others in accordance with Article 7.

To the fullest extent permitted by Laws and Regulations, Owner shall indemnify and hold harmless Contractor, Subcontractors, and Engineer, and the officers, directors, members, partners, employees, agents, consultants, and subcontractors of each and any of them from and against all claims, costs, losses, and damages (including but not limited to all fees and charges of engineers, architects, attorneys, and other professionals and all court or arbitration or other dispute resolution costs) arising out of or relating to a Hazardous Environmental Condition, provided that such Hazardous Environmental Condition: (i) was not shown or indicated in the Drawings or Specifications or identified in the Contract Documents to be included within the scope of the Work, and (ii) was not created by Contractor or by anyone for whom Contractor is responsible. Nothing in this Paragraph 4.06.G shall obligate Owner to indemnify any individual or entity from and against the consequences of that individual's or entity's own negligence.

To the fullest extent permitted by Laws and Regulations, Contractor shall indemnify and hold harmless Owner and Engineer, and the officers, directors, members, partners, employees, agents, consultants, and subcontractors of each and any of them from and against all claims, costs, losses, and damages (including but not limited to all fees and charges of engineers, architects, attorneys, and other professionals and all court or arbitration or other dispute resolution costs) arising out of or relating to a Hazardous Environmental Condition created by Contractor or by anyone for whom Contractor is responsible. Nothing in this Paragraph 4.06.H shall obligate Contractor to indemnify any individual or entity from and against the consequences of that individual's or entity's own negligence.

The provisions of Paragraphs 4.02, 4.03, and 4.04 do not apply to a Hazardous Environmental Condition uncovered or revealed at the Site.

BONDS AND INSURANCE

Performance, Payment, and Other Bonds

Contractor shall furnish performance and payment bonds, each in an amount at least equal to the Contract Price as security for the faithful performance and payment of all of Contractor's obligations under the Contract Documents. These bonds shall remain in effect until one year after the date when final payment becomes due or until completion of the correction period specified in Paragraph 13.07, whichever is later, except as provided otherwise by Laws or Regulations or by the Contract Documents. Contractor shall also furnish such other bonds as are required by the Contract Documents.

All bonds shall be in the form prescribed by the Contract Documents except as provided otherwise by Laws or Regulations, and shall be executed by such sureties as are named in the list of "Companies Holding Certificates of Authority as Acceptable Sureties on Federal Bonds and as Acceptable Reinsuring Companies" as published in Circular 570 (amended) by the Financial Management Service, Surety Bond Branch, U.S. Department of the Treasury. All bonds signed by an agent or attorney-in-fact must be accompanied by a certified copy of that individual's authority to bind the surety. The evidence of authority shall show that it is effective on the date the agent or attorney-in-fact signed each bond.

If the surety on any bond furnished by Contractor is declared bankrupt or becomes insolvent or its right to do business is terminated in any state where any part of the Project is located or it ceases to meet the requirements of Paragraph 5.01.B, Contractor shall promptly notify Owner and Engineer and shall, within 20 days after the event giving rise to such notification, provide another bond and surety, both of which shall comply with the requirements of Paragraphs 5.01.B and 5.02.

Licensed Sureties and Insurers

All bonds and insurance required by the Contract Documents to be purchased and maintained by Owner or Contractor shall be obtained from surety or insurance companies that are duly licensed or authorized in the jurisdiction in which the Project is located to issue bonds or insurance policies for the limits and coverages so required. Such surety and insurance companies shall also meet such additional requirements and qualifications as may be provided in the Supplementary Conditions.

Certificates of Insurance

Contractor shall deliver to Owner, with copies to each additional insured and loss payee identified in the Supplementary Conditions, certificates of insurance (and other evidence of insurance requested by Owner or any other additional insured) which Contractor is required to purchase and maintain.

Owner shall deliver to Contractor, with copies to each additional insured and loss payee identified in the Supplementary Conditions, certificates of insurance (and other evidence of insurance requested by Contractor or any other additional insured) which Owner is required to purchase and maintain.

Failure of Owner to demand such certificates or other evidence of Contractor's full compliance with these insurance requirements or failure of Owner to identify a deficiency in compliance from the evidence provided shall not be construed as a waiver of Contractor's obligation to maintain such insurance.

Owner does not represent that insurance coverage and limits established in this Contract necessarily will be adequate to protect Contractor.

The insurance and insurance limits required herein shall not be deemed as a limitation on Contractor's liability under the indemnities granted to Owner in the Contract Documents.

Contractor's Insurance

Contractor shall purchase and maintain such insurance as is appropriate for the Work being performed and as will provide protection from claims set forth below which may arise out of or result from Contractor's performance of the Work and Contractor's other obligations under the Contract Documents, whether it is to be performed by Contractor, any Subcontractor or Supplier, or by anyone directly or indirectly employed by any of them to perform any of the Work, or by anyone for whose acts any of them may be liable:

claims under workers' compensation, disability benefits, and other similar employee benefit acts;

claims for damages because of bodily injury, occupational sickness or disease, or death of Contractor's employees;

claims for damages because of bodily injury, sickness or disease, or death of any person other than Contractor's employees;

claims for damages insured by reasonably available personal injury liability coverage which are sustained:

j. by any person as a result of an offense directly or indirectly related to the employment of such person by Contractor, or

k. by any other person for any other reason;

claims for damages, other than to the Work itself, because of injury to or destruction of tangible property wherever located, including loss of use resulting therefrom; and

claims for damages because of bodily injury or death of any person or property damage arising out of the ownership, maintenance or use of any motor vehicle.

The policies of insurance required by this Paragraph 5.04 shall:

with respect to insurance required by Paragraphs 5.04.A.3 through 5.04.A.6 inclusive, be written on an occurrence basis, include as additional insureds (subject to any customary exclusion regarding professional liability) Owner and Engineer, and any other individuals or entities identified in the Supplementary Conditions, all of whom shall be listed as additional insureds, and include coverage for the respective officers, directors, members, partners, employees, agents, consultants, and subcontractors of each and any of all such additional insureds, and the insurance afforded to these additional insureds shall provide primary coverage for all claims covered thereby;

include at least the specific coverages and be written for not less than the limits of liability provided in the Supplementary Conditions or required by Laws or Regulations, whichever is greater;

include contractual liability insurance covering Contractor's indemnity obligations under Paragraphs 6.11 and 6.20;

contain a provision or endorsement that the coverage afforded will not be canceled, materially changed or renewal refused until at least 30 days prior written notice has been given to Owner and Contractor and to each other additional insured identified in the Supplementary Conditions to whom a certificate of insurance has been issued (and the certificates of insurance furnished by the Contractor pursuant to Paragraph 5.03 will so provide);

remain in effect at least until final payment and at all times thereafter when Contractor may be correcting, removing, or replacing defective Work in accordance with Paragraph 13.07; and

include completed operations coverage:

- l. Such insurance shall remain in effect for two years after final payment.
- m. Contractor shall furnish Owner and each other additional insured identified in the Supplementary Conditions, to whom a certificate of insurance has been issued, evidence satisfactory to Owner and any such additional insured of continuation of such insurance at final payment and one year thereafter.

Owner's Liability Insurance

In addition to the insurance required to be provided by Contractor under Paragraph 5.04, Owner, at Owner's option, may purchase and maintain at Owner's expense Owner's own liability insurance as will protect Owner against claims which may arise from operations under the Contract Documents.

Property Insurance

Unless otherwise provided in the Supplementary Conditions, Owner shall purchase and maintain property insurance upon the Work at the Site in the amount of the full replacement cost thereof (subject to such deductible amounts as may be provided in the Supplementary Conditions or required by Laws and Regulations). This insurance shall:

include the interests of Owner, Contractor, Subcontractors, and Engineer, and any other individuals or entities identified in the Supplementary Conditions, and the officers,

directors, members, partners, employees, agents, consultants, and subcontractors of each and any of them, each of whom is deemed to have an insurable interest and shall be listed as a loss payee;

be written on a Builder's Risk "all-risk" policy form that shall at least include insurance for physical loss or damage to the Work, temporary buildings, falsework, and materials and equipment in transit, and shall insure against at least the following perils or causes of loss: fire, lightning, extended coverage, theft, vandalism and malicious mischief, earthquake, collapse, debris removal, demolition occasioned by enforcement of Laws and Regulations, water damage (other than that caused by flood), and such other perils or causes of loss as may be specifically required by the Supplementary Conditions.

include expenses incurred in the repair or replacement of any insured property (including but not limited to fees and charges of engineers and architects);

cover materials and equipment stored at the Site or at another location that was agreed to in writing by Owner prior to being incorporated in the Work, provided that such materials and equipment have been included in an Application for Payment recommended by Engineer;

allow for partial utilization of the Work by Owner;

include testing and startup; and

be maintained in effect until final payment is made unless otherwise agreed to in writing by Owner, Contractor, and Engineer with 30 days written notice to each other loss payee to whom a certificate of insurance has been issued.

Owner shall purchase and maintain such equipment breakdown insurance or additional property insurance as may be required by the Supplementary Conditions or Laws and Regulations which will include the interests of Owner, Contractor, Subcontractors, and Engineer, and any other individuals or entities identified in the Supplementary Conditions, and the officers, directors, members, partners, employees, agents, consultants and subcontractors of each and any of them, each of whom is deemed to have an insurable interest and shall be listed as a loss payee.

All the policies of insurance (and the certificates or other evidence thereof) required to be purchased and maintained in accordance with this Paragraph 5.06 will contain a provision or endorsement that the coverage afforded will not be canceled or materially changed or renewal refused until at least 30 days prior written notice has been given to Owner and Contractor and to each other loss payee to whom a certificate of insurance has been issued and will contain waiver provisions in accordance with Paragraph 5.07.

Owner shall not be responsible for purchasing and maintaining any property insurance specified in this Paragraph 5.06 to protect the interests of Contractor, Subcontractors, or others in the Work to the extent of any deductible amounts that are identified in the Supplementary Conditions. The risk of loss within such identified deductible amount will be borne by Contractor, Subcontractors, or others suffering any such loss, and if any of them wishes property insurance coverage within the limits of such amounts, each may purchase and maintain it at the purchaser's own expense.

If Contractor requests in writing that other special insurance be included in the property insurance policies provided under this Paragraph 5.06, Owner shall, if possible, include such insurance, and the cost thereof will be charged to Contractor by appropriate Change Order. Prior to commencement of the Work at the Site, Owner shall in writing advise Contractor whether or not such other insurance has been procured by Owner.

Waiver of Rights

Owner and Contractor intend that all policies purchased in accordance with Paragraph 5.06 will protect Owner, Contractor, Subcontractors, and Engineer, and all other individuals or entities identified in the Supplementary Conditions as loss payees (and the officers, directors, members, partners, employees, agents, consultants, and subcontractors of each and any of them) in such policies and will provide primary coverage for all losses and damages caused by the perils or causes of loss covered thereby. All such policies shall contain provisions to the effect that in the event of payment of any loss or damage the insurers will have no rights of recovery against any of the insureds or loss payees thereunder. Owner and Contractor waive all rights against each other and their respective officers, directors, members, partners, employees, agents, consultants and subcontractors of each and any of them for all losses and damages caused by, arising out of or resulting from any of the perils or causes of loss covered by such policies and any other property insurance applicable to the Work; and, in addition, waive all such rights against Subcontractors and Engineer, and all other individuals or entities identified in the Supplementary Conditions as loss payees (and the officers, directors, members, partners, employees, agents, consultants, and subcontractors of each and any of them) under such policies for losses and damages so caused. None of the above waivers shall extend to the rights that any party making such waiver may have to the proceeds of insurance held by Owner as trustee or otherwise payable under any policy so issued.

Owner waives all rights against Contractor, Subcontractors, and Engineer, and the officers, directors, members, partners, employees, agents, consultants and subcontractors of each and any of them for:

loss due to business interruption, loss of use, or other consequential loss extending beyond direct physical loss or damage to Owner's property or the Work caused by, arising out of, or resulting from fire or other perils whether or not insured by Owner; and

loss or damage to the completed Project or part thereof caused by, arising out of, or resulting from fire or other insured peril or cause of loss covered by any property insurance maintained on the completed Project or part thereof by Owner during partial utilization pursuant to Paragraph 14.05, after Substantial Completion pursuant to Paragraph 14.04, or after final payment pursuant to Paragraph 14.07.

Any insurance policy maintained by Owner covering any loss, damage or consequential loss referred to in Paragraph 5.07.B shall contain provisions to the effect that in the event of payment of any such loss, damage, or consequential loss, the insurers will have no rights of

recovery against Contractor, Subcontractors, or Engineer, and the officers, directors, members, partners, employees, agents, consultants and subcontractors of each and any of them.

Receipt and Application of Insurance Proceeds

Any insured loss under the policies of insurance required by Paragraph 5.06 will be adjusted with Owner and made payable to Owner as fiduciary for the loss payees, as their interests may appear, subject to the requirements of any applicable mortgage clause and of Paragraph 5.08.B. Owner shall deposit in a separate account any money so received and shall distribute it in accordance with such agreement as the parties in interest may reach. If no other special agreement is reached, the damaged Work shall be repaired or replaced, the moneys so received applied on account thereof, and the Work and the cost thereof covered by an appropriate Change Order.

Owner as fiduciary shall have power to adjust and settle any loss with the insurers unless one of the parties in interest shall object in writing within 15 days after the occurrence of loss to Owner's exercise of this power. If such objection be made, Owner as fiduciary shall make settlement with the insurers in accordance with such agreement as the parties in interest may reach. If no such agreement among the parties in interest is reached, Owner as fiduciary shall adjust and settle the loss with the insurers and, if required in writing by any party in interest, Owner as fiduciary shall give bond for the proper performance of such duties.

Acceptance of Bonds and Insurance; Option to Replace

If either Owner or Contractor has any objection to the coverage afforded by or other provisions of the bonds or insurance required to be purchased and maintained by the other party in accordance with Article 5 on the basis of non-conformance with the Contract Documents, the objecting party shall so notify the other party in writing within 10 days after receipt of the certificates (or other evidence requested) required by Paragraph 2.01.B. Owner and Contractor shall each provide to the other such additional information in respect of insurance provided as the other may reasonably request. If either party does not purchase or maintain all of the bonds and insurance required of such party by the Contract Documents, such party shall notify the other party in writing of such failure to purchase prior to the start of the Work, or of such failure to maintain prior to any change in the required coverage. Without prejudice to any other right or remedy, the other party may elect to obtain equivalent bonds or insurance to protect such other party's interests at the expense of the party who was required to provide such coverage, and a Change Order shall be issued to adjust the Contract Price accordingly.

Partial Utilization, Acknowledgment of Property Insurer

If Owner finds it necessary to occupy or use a portion or portions of the Work prior to Substantial Completion of all the Work as provided in Paragraph 14.05, no such use or occupancy shall commence before the insurers providing the property insurance pursuant to Paragraph 5.06 have acknowledged notice thereof and in writing effected any changes in coverage necessitated thereby. The insurers providing the property insurance shall consent by endorsement on the policy or policies, but the property insurance shall not be canceled or permitted to lapse on account of any such partial use or occupancy.

CONTRACTOR'S RESPONSIBILITIES

Supervision and Superintendence

Contractor shall supervise, inspect, and direct the Work competently and efficiently, devoting such attention thereto and applying such skills and expertise as may be necessary to perform the Work in accordance with the Contract Documents. Contractor shall be solely responsible for the means, methods, techniques, sequences, and procedures of construction. Contractor shall not be responsible for the negligence of Owner or Engineer in the design or specification of a specific means, method, technique, sequence, or procedure of construction which is shown or indicated in and expressly required by the Contract Documents.

At all times during the progress of the Work, Contractor shall assign a competent resident superintendent who shall not be replaced without written notice to Owner and Engineer except under extraordinary circumstances.

Labor; Working Hours

Contractor shall provide competent, suitably qualified personnel to survey and lay out the Work and perform construction as required by the Contract Documents. Contractor shall at all times maintain good discipline and order at the Site.

Except as otherwise required for the safety or protection of persons or the Work or property at the Site or adjacent thereto, and except as otherwise stated in the Contract Documents, all Work at the Site shall be performed during regular working hours. Contractor will not permit the performance of Work on a Saturday, Sunday, or any legal holiday without Owner's written consent (which will not be unreasonably withheld) given after prior written notice to Engineer.

Services, Materials, and Equipment

Unless otherwise specified in the Contract Documents, Contractor shall provide and assume full responsibility for all services, materials, equipment, labor, transportation, construction equipment and machinery, tools, appliances, fuel, power, light, heat, telephone, water, sanitary facilities, temporary facilities, and all other facilities and incidentals necessary for the performance, testing, start-up, and completion of the Work.

All materials and equipment incorporated into the Work shall be as specified or, if not specified, shall be of good quality and new, except as otherwise provided in the Contract Documents. All special warranties and guarantees required by the Specifications shall expressly run to the benefit of Owner. If required by Engineer, Contractor shall furnish satisfactory evidence (including reports of required tests) as to the source, kind, and quality of materials and equipment.

All materials and equipment shall be stored, applied, installed, connected, erected, protected, used, cleaned, and conditioned in accordance with instructions of the applicable Supplier, except as otherwise may be provided in the Contract Documents.

Progress Schedule

Contractor shall adhere to the Progress Schedule established in accordance with Paragraph 2.07 as it may be adjusted from time to time as provided below.

Contractor shall submit to Engineer for acceptance (to the extent indicated in Paragraph 2.07) proposed adjustments in the Progress Schedule that will not result in changing the Contract Times. Such adjustments will comply with any provisions of the General Requirements applicable thereto.

Proposed adjustments in the Progress Schedule that will change the Contract Times shall be submitted in accordance with the requirements of Article 12. Adjustments in Contract Times may only be made by a Change Order.

Substitutes and "Or-Equals"

Whenever an item of material or equipment is specified or described in the Contract Documents by using the name of a proprietary item or the name of a particular Supplier, the specification or description is intended to establish the type, function, appearance, and quality required. Unless the specification or description contains or is followed by words reading that no like, equivalent, or "or-equal" item or no substitution is permitted, other items of material or equipment or material or equipment of other Suppliers may be submitted to Engineer for review under the circumstances described below.

"Or-Equal" Items: If in Engineer's sole discretion an item of material or equipment proposed by Contractor is functionally equal to that named and sufficiently similar so that no change in related Work will be required, it may be considered by Engineer as an "or-equal" item, in which case review and approval of the proposed item may, in Engineer's sole discretion, be accomplished without compliance with some or all of the requirements for approval of proposed substitute items. For the purposes of this Paragraph 6.05.A.1, a proposed item of material or equipment will be considered functionally equal to an item so named if:

- n. in the exercise of reasonable judgment Engineer determines that:
 - 1) it is at least equal in materials of construction, quality, durability, appearance, strength, and design characteristics;
 - 2) it will reliably perform at least equally well the function and achieve the results imposed by the design concept of the completed Project as a functioning whole; and
 - 3) it has a proven record of performance and availability of responsive service.
- o. Contractor certifies that, if approved and incorporated into the Work:
 - 1) there will be no increase in cost to the Owner or increase in Contract Times; and
 - 2) it will conform substantially to the detailed requirements of the item named in the Contract Documents.

Substitute Items:

- p. If in Engineer's sole discretion an item of material or equipment proposed by Contractor does not qualify as an "or-equal" item under Paragraph 6.05.A.1, it will be considered a proposed substitute item.
- q. Contractor shall submit sufficient information as provided below to allow Engineer to determine if the item of material or equipment proposed is essentially equivalent to that named and an acceptable substitute therefor. Requests for review of proposed substitute items of material or equipment will not be accepted by Engineer from anyone other than Contractor.
- r. The requirements for review by Engineer will be as set forth in Paragraph 6.05.A.2.d, as supplemented by the General Requirements, and as Engineer may decide is appropriate under the circumstances.
- s. Contractor shall make written application to Engineer for review of a proposed substitute item of material or equipment that Contractor seeks to furnish or use. The application:
 - 1) shall certify that the proposed substitute item will:
 - a) perform adequately the functions and achieve the results called for by the general design,
 - b) be similar in substance to that specified, and
 - c) be suited to the same use as that specified;
 - 2) will state:
 - a) the extent, if any, to which the use of the proposed substitute item will prejudice Contractor's achievement of Substantial Completion on time,
 - b) whether use of the proposed substitute item in the Work will require a change in any of the Contract Documents (or in the provisions of any other direct contract with Owner for other work on the Project) to adapt the design to the proposed substitute item, and
 - c) whether incorporation or use of the proposed substitute item in connection with the Work is subject to payment of any license fee or royalty;
 - 3) will identify:
 - a) all variations of the proposed substitute item from that specified, and
 - b) available engineering, sales, maintenance, repair, and replacement services; and
 - 4) shall contain an itemized estimate of all costs or credits that will result directly or indirectly from use of such substitute item, including costs of redesign and claims of other contractors affected by any resulting change.

Substitute Construction Methods or Procedures: If a specific means, method, technique, sequence, or procedure of construction is expressly required by the Contract Documents, Contractor may furnish or utilize a substitute means, method, technique, sequence, or procedure of construction approved by Engineer. Contractor shall submit sufficient information to allow Engineer, in Engineer's sole discretion, to determine that the substitute proposed is equivalent to that expressly called for by the Contract Documents. The requirements for review by Engineer will be similar to those provided in Paragraph 6.05.A.2.

Engineer's Evaluation: Engineer will be allowed a reasonable time within which to evaluate each proposal or submittal made pursuant to Paragraphs 6.05.A and 6.05.B. Engineer may require Contractor to furnish additional data about the proposed substitute item. Engineer will be the sole judge of acceptability. No "or equal" or substitute will be ordered, installed or utilized until Engineer's review is complete, which will be evidenced by a Change Order in the case of a substitute and an approved Shop Drawing for an "or equal." Engineer will advise Contractor in writing of any negative determination.

Special Guarantee: Owner may require Contractor to furnish at Contractor's expense a special performance guarantee or other surety with respect to any substitute.

Engineer's Cost Reimbursement: Engineer will record Engineer's costs in evaluating a substitute proposed or submitted by Contractor pursuant to Paragraphs 6.05.A.2 and 6.05.B. Whether or not Engineer approves a substitute so proposed or submitted by Contractor, Contractor shall reimburse Owner for the reasonable charges of Engineer for evaluating each such proposed substitute. Contractor shall also reimburse Owner for the reasonable charges of Engineer for making changes in the Contract Documents (or in the provisions of any other direct contract with Owner) resulting from the acceptance of each proposed substitute.

Contractor's Expense: Contractor shall provide all data in support of any proposed substitute or "or-equal" at Contractor's expense.

Concerning Subcontractors, Suppliers, and Others

Contractor shall not employ any Subcontractor, Supplier, or other individual or entity (including those acceptable to Owner as indicated in Paragraph 6.06.B), whether initially or as a replacement, against whom Owner may have reasonable objection. Contractor shall not be required to employ any Subcontractor, Supplier, or other individual or entity to furnish or perform any of the Work against whom Contractor has reasonable objection.

If the Supplementary Conditions require the identity of certain Subcontractors, Suppliers, or other individuals or entities to be submitted to Owner in advance for acceptance by Owner by a specified date prior to the Effective Date of the Agreement, and if Contractor has submitted a list thereof in accordance with the Supplementary Conditions, Owner's acceptance (either in writing or by failing to make written objection thereto by the date indicated for acceptance or objection in the Bidding Documents or the Contract Documents) of any such Subcontractor, Supplier, or other individual or entity so identified may be revoked on the basis of reasonable objection after due investigation. Contractor shall submit an acceptable replacement for the rejected Subcontractor, Supplier, or other individual or entity, and the Contract Price will be adjusted by the difference in the cost occasioned by such replacement, and an appropriate Change Order will be issued. No acceptance by Owner of any such Subcontractor, Supplier, or

other individual or entity, whether initially or as a replacement, shall constitute a waiver of any right of Owner or Engineer to reject defective Work.

Contractor shall be fully responsible to Owner and Engineer for all acts and omissions of the Subcontractors, Suppliers, and other individuals or entities performing or furnishing any of the Work just as Contractor is responsible for Contractor's own acts and omissions. Nothing in the Contract Documents:

shall create for the benefit of any such Subcontractor, Supplier, or other individual or entity any contractual relationship between Owner or Engineer and any such Subcontractor, Supplier or other individual or entity; nor

shall create any obligation on the part of Owner or Engineer to pay or to see to the payment of any moneys due any such Subcontractor, Supplier, or other individual or entity except as may otherwise be required by Laws and Regulations.

Contractor shall be solely responsible for scheduling and coordinating the Work of Subcontractors, Suppliers, and other individuals or entities performing or furnishing any of the Work under a direct or indirect contract with Contractor.

Contractor shall require all Subcontractors, Suppliers, and such other individuals or entities performing or furnishing any of the Work to communicate with Engineer through Contractor.

The divisions and sections of the Specifications and the identifications of any Drawings shall not control Contractor in dividing the Work among Subcontractors or Suppliers or delineating the Work to be performed by any specific trade.

All Work performed for Contractor by a Subcontractor or Supplier will be pursuant to an appropriate agreement between Contractor and the Subcontractor or Supplier which specifically binds the Subcontractor or Supplier to the applicable terms and conditions of the Contract Documents for the benefit of Owner and Engineer. Whenever any such agreement is with a Subcontractor or Supplier who is listed as a loss payee on the property insurance provided in Paragraph 5.06, the agreement between the Contractor and the Subcontractor or Supplier will contain provisions whereby the Subcontractor or Supplier waives all rights against Owner, Contractor, Engineer, and all other individuals or entities identified in the Supplementary Conditions to be listed as insureds or loss payees (and the officers, directors, members, partners, employees, agents, consultants, and subcontractors of each and any of them) for all losses and damages caused by, arising out of, relating to, or resulting from any of the perils or causes of loss covered by such policies and any other property insurance applicable to the Work. If the insurers on any such policies require separate waiver forms to be signed by any Subcontractor or Supplier, Contractor will obtain the same.

Patent Fees and Royalties

Contractor shall pay all license fees and royalties and assume all costs incident to the use in the performance of the Work or the incorporation in the Work of any invention, design, process, product, or device which is the subject of patent rights or copyrights held by others. If a particular invention, design, process, product, or device is specified in the Contract Documents for use in the performance of the Work and if, to the actual knowledge of Owner or Engineer, its use is subject to patent rights or copyrights calling for the payment of any license fee or

royalty to others, the existence of such rights shall be disclosed by Owner in the Contract Documents.

To the fullest extent permitted by Laws and Regulations, Owner shall indemnify and hold harmless Contractor, and its officers, directors, members, partners, employees, agents, consultants, and subcontractors from and against all claims, costs, losses, and damages (including but not limited to all fees and charges of engineers, architects, attorneys, and other professionals, and all court or arbitration or other dispute resolution costs) arising out of or relating to any infringement of patent rights or copyrights incident to the use in the performance of the Work or resulting from the incorporation in the Work of any invention, design, process, product, or device specified in the Contract Documents, but not identified as being subject to payment of any license fee or royalty to others required by patent rights or copyrights.

To the fullest extent permitted by Laws and Regulations, Contractor shall indemnify and hold harmless Owner and Engineer, and the officers, directors, members, partners, employees, agents, consultants and subcontractors of each and any of them from and against all claims, costs, losses, and damages (including but not limited to all fees and charges of engineers, architects, attorneys, and other professionals and all court or arbitration or other dispute resolution costs) arising out of or relating to any infringement of patent rights or copyrights incident to the use in the performance of the Work or resulting from the incorporation in the Work of any invention, design, process, product, or device not specified in the Contract Documents.

Permits

Unless otherwise provided in the Supplementary Conditions, Contractor shall obtain and pay for all construction permits and licenses. Owner shall assist Contractor, when necessary, in obtaining such permits and licenses. Contractor shall pay all governmental charges and inspection fees necessary for the prosecution of the Work which are applicable at the time of opening of Bids, or, if there are no Bids, on the Effective Date of the Agreement. Owner shall pay all charges of utility owners for connections for providing permanent service to the Work.

Laws and Regulations

Contractor shall give all notices required by and shall comply with all Laws and Regulations applicable to the performance of the Work. Except where otherwise expressly required by applicable Laws and Regulations, neither Owner nor Engineer shall be responsible for monitoring Contractor's compliance with any Laws or Regulations.

If Contractor performs any Work knowing or having reason to know that it is contrary to Laws or Regulations, Contractor shall bear all claims, costs, losses, and damages (including but not limited to all fees and charges of engineers, architects, attorneys, and other professionals and all court or arbitration or other dispute resolution costs) arising out of or relating to such Work. However, it shall not be Contractor's responsibility to make certain that the Specifications and Drawings are in accordance with Laws and Regulations, but this shall not relieve Contractor of Contractor's obligations under Paragraph 3.03.

Changes in Laws or Regulations not known at the time of opening of Bids (or, on the Effective Date of the Agreement if there were no Bids) having an effect on the cost or time of

performance of the Work shall be the subject of an adjustment in Contract Price or Contract Times. If Owner and Contractor are unable to agree on entitlement to or on the amount or extent, if any, of any such adjustment, a Claim may be made therefor as provided in Paragraph 10.05.

Taxes

Contractor shall pay all sales, consumer, use, and other similar taxes required to be paid by Contractor in accordance with the Laws and Regulations of the place of the Project which are applicable during the performance of the Work.

Use of Site and Other Areas

Limitation on Use of Site and Other Areas:

Contractor shall confine construction equipment, the storage of materials and equipment, and the operations of workers to the Site and other areas permitted by Laws and Regulations, and shall not unreasonably encumber the Site and other areas with construction equipment or other materials or equipment. Contractor shall assume full responsibility for any damage to any such land or area, or to the owner or occupant thereof, or of any adjacent land or areas resulting from the performance of the Work.

Should any claim be made by any such owner or occupant because of the performance of the Work, Contractor shall promptly settle with such other party by negotiation or otherwise resolve the claim by arbitration or other dispute resolution proceeding or at law.

To the fullest extent permitted by Laws and Regulations, Contractor shall indemnify and hold harmless Owner and Engineer, and the officers, directors, members, partners, employees, agents, consultants and subcontractors of each and any of them from and against all claims, costs, losses, and damages (including but not limited to all fees and charges of engineers, architects, attorneys, and other professionals and all court or arbitration or other dispute resolution costs) arising out of or relating to any claim or action, legal or equitable, brought by any such owner or occupant against Owner, Engineer, or any other party indemnified hereunder to the extent caused by or based upon Contractor's performance of the Work.

Removal of Debris During Performance of the Work: During the progress of the Work Contractor shall keep the Site and other areas free from accumulations of waste materials, rubbish, and other debris. Removal and disposal of such waste materials, rubbish, and other debris shall conform to applicable Laws and Regulations.

Cleaning: Prior to Substantial Completion of the Work Contractor shall clean the Site and the Work and make it ready for utilization by Owner. At the completion of the Work Contractor shall remove from the Site all tools, appliances, construction equipment and machinery, and surplus materials and shall restore to original condition all property not designated for alteration by the Contract Documents.

Loading Structures: Contractor shall not load nor permit any part of any structure to be loaded in any manner that will endanger the structure, nor shall Contractor subject any part of the Work or adjacent property to stresses or pressures that will endanger it.

Record Documents

Contractor shall maintain in a safe place at the Site one record copy of all Drawings, Specifications, Addenda, Change Orders, Work Change Directives, Field Orders, and written interpretations and clarifications in good order and annotated to show changes made during construction. These record documents together with all approved Samples and a counterpart of all approved Shop Drawings will be available to Engineer for reference. Upon completion of the Work, these record documents, Samples, and Shop Drawings will be delivered to Engineer for Owner.

Safety and Protection

Contractor shall be solely responsible for initiating, maintaining and supervising all safety precautions and programs in connection with the Work. Such responsibility does not relieve Subcontractors of their responsibility for the safety of persons or property in the performance of their work, nor for compliance with applicable safety Laws and Regulations. Contractor shall take all necessary precautions for the safety of, and shall provide the necessary protection to prevent damage, injury or loss to:

all persons on the Site or who may be affected by the Work;

all the Work and materials and equipment to be incorporated therein, whether in storage on or off the Site; and

other property at the Site or adjacent thereto, including trees, shrubs, lawns, walks, pavements, roadways, structures, utilities, and Underground Facilities not designated for removal, relocation, or replacement in the course of construction.

Contractor shall comply with all applicable Laws and Regulations relating to the safety of persons or property, or to the protection of persons or property from damage, injury, or loss; and shall erect and maintain all necessary safeguards for such safety and protection. Contractor shall notify owners of adjacent property and of Underground Facilities and other utility owners when prosecution of the Work may affect them, and shall cooperate with them in the protection, removal, relocation, and replacement of their property.

Contractor shall comply with the applicable requirements of Owner's safety programs, if any. The Supplementary Conditions identify any Owner's safety programs that are applicable to the Work.

Contractor shall inform Owner and Engineer of the specific requirements of Contractor's safety program with which Owner's and Engineer's employees and representatives must comply while at the Site.

All damage, injury, or loss to any property referred to in Paragraph 6.13.A.2 or 6.13.A.3 caused, directly or indirectly, in whole or in part, by Contractor, any Subcontractor, Supplier, or any other individual or entity directly or indirectly employed by any of them to perform any of the Work, or anyone for whose acts any of them may be liable, shall be remedied by Contractor (except damage or loss attributable to the fault of Drawings or Specifications or to the acts or omissions of Owner or Engineer or anyone employed by any of them, or anyone for whose acts any of them may be liable, and not attributable, directly or indirectly, in whole or in part, to the

fault or negligence of Contractor or any Subcontractor, Supplier, or other individual or entity directly or indirectly employed by any of them).

Contractor's duties and responsibilities for safety and for protection of the Work shall continue until such time as all the Work is completed and Engineer has issued a notice to Owner and Contractor in accordance with Paragraph 14.07.B that the Work is acceptable (except as otherwise expressly provided in connection with Substantial Completion).

Safety Representative

Contractor shall designate a qualified and experienced safety representative at the Site whose duties and responsibilities shall be the prevention of accidents and the maintaining and supervising of safety precautions and programs.

Hazard Communication Programs

Contractor shall be responsible for coordinating any exchange of material safety data sheets or other hazard communication information required to be made available to or exchanged between or among employers at the Site in accordance with Laws or Regulations.

Emergencies

In emergencies affecting the safety or protection of persons or the Work or property at the Site or adjacent thereto, Contractor is obligated to act to prevent threatened damage, injury, or loss. Contractor shall give Engineer prompt written notice if Contractor believes that any significant changes in the Work or variations from the Contract Documents have been caused thereby or are required as a result thereof. If Engineer determines that a change in the Contract Documents is required because of the action taken by Contractor in response to such an emergency, a Work Change Directive or Change Order will be issued.

Shop Drawings and Samples

Contractor shall submit Shop Drawings and Samples to Engineer for review and approval in accordance with the accepted Schedule of Submittals (as required by Paragraph 2.07). Each submittal will be identified as Engineer may require.

Shop Drawings:

- t. Submit number of copies specified in the General Requirements.
- u. Data shown on the Shop Drawings will be complete with respect to quantities, dimensions, specified performance and design criteria, materials, and similar data to show Engineer the services, materials, and equipment Contractor proposes to provide and to enable Engineer to review the information for the limited purposes required by Paragraph 6.17.D.

Samples:

- v. Submit number of Samples specified in the Specifications.

- w. Clearly identify each Sample as to material, Supplier, pertinent data such as catalog numbers, the use for which intended and other data as Engineer may require to enable Engineer to review the submittal for the limited purposes required by Paragraph 6.17.D.

Where a Shop Drawing or Sample is required by the Contract Documents or the Schedule of Submittals, any related Work performed prior to Engineer's review and approval of the pertinent submittal will be at the sole expense and responsibility of Contractor.

Submittal Procedures:

Before submitting each Shop Drawing or Sample, Contractor shall have:

- x. reviewed and coordinated each Shop Drawing or Sample with other Shop Drawings and Samples and with the requirements of the Work and the Contract Documents;
- y. determined and verified all field measurements, quantities, dimensions, specified performance and design criteria, installation requirements, materials, catalog numbers, and similar information with respect thereto;
- z. determined and verified the suitability of all materials offered with respect to the indicated application, fabrication, shipping, handling, storage, assembly, and installation pertaining to the performance of the Work; and
- aa. determined and verified all information relative to Contractor's responsibilities for means, methods, techniques, sequences, and procedures of construction, and safety precautions and programs incident thereto.

Each submittal shall bear a stamp or specific written certification that Contractor has satisfied Contractor's obligations under the Contract Documents with respect to Contractor's review and approval of that submittal.

With each submittal, Contractor shall give Engineer specific written notice of any variations that the Shop Drawing or Sample may have from the requirements of the Contract Documents. This notice shall be both a written communication separate from the Shop Drawings or Sample submittal; and, in addition, by a specific notation made on each Shop Drawing or Sample submitted to Engineer for review and approval of each such variation.

Engineer's Review:

Engineer will provide timely review of Shop Drawings and Samples in accordance with the Schedule of Submittals acceptable to Engineer. Engineer's review and approval will be only to determine if the items covered by the submittals will, after installation or incorporation in the Work, conform to the information given in the Contract Documents and be compatible with the design concept of the completed Project as a functioning whole as indicated by the Contract Documents.

Engineer's review and approval will not extend to means, methods, techniques, sequences, or procedures of construction (except where a particular means, method, technique, sequence, or procedure of construction is specifically and expressly called for by the Contract Documents) or to safety precautions or programs incident thereto. The review and approval of a separate item as such will not indicate approval of the assembly in which the item functions.

Engineer's review and approval shall not relieve Contractor from responsibility for any variation from the requirements of the Contract Documents unless Contractor has complied with the requirements of Paragraph 6.17.C.3 and Engineer has given written approval of each such variation by specific written notation thereof incorporated in or accompanying the Shop Drawing or Sample. Engineer's review and approval shall not relieve Contractor from responsibility for complying with the requirements of Paragraph 6.17.C.1.

Resubmittal Procedures:

Contractor shall make corrections required by Engineer and shall return the required number of corrected copies of Shop Drawings and submit, as required, new Samples for review and approval. Contractor shall direct specific attention in writing to revisions other than the corrections called for by Engineer on previous submittals.

Continuing the Work

Contractor shall carry on the Work and adhere to the Progress Schedule during all disputes or disagreements with Owner. No Work shall be delayed or postponed pending resolution of any disputes or disagreements, except as permitted by Paragraph 15.04 or as Owner and Contractor may otherwise agree in writing.

Contractor's General Warranty and Guarantee

Contractor warrants and guarantees to Owner that all Work will be in accordance with the Contract Documents and will not be defective. Engineer and its officers, directors, members, partners, employees, agents, consultants, and subcontractors shall be entitled to rely on representation of Contractor's warranty and guarantee.

Contractor's warranty and guarantee hereunder excludes defects or damage caused by:

abuse, modification, or improper maintenance or operation by persons other than Contractor, Subcontractors, Suppliers, or any other individual or entity for whom Contractor is responsible; or

normal wear and tear under normal usage.

Contractor's obligation to perform and complete the Work in accordance with the Contract Documents shall be absolute. None of the following will constitute an acceptance of Work that is not in accordance with the Contract Documents or a release of Contractor's obligation to perform the Work in accordance with the Contract Documents:

observations by Engineer;

recommendation by Engineer or payment by Owner of any progress or final payment;

the issuance of a certificate of Substantial Completion by Engineer or any payment related thereto by Owner;

use or occupancy of the Work or any part thereof by Owner;

any review and approval of a Shop Drawing or Sample submittal or the issuance of a notice of acceptability by Engineer;

any inspection, test, or approval by others; or

any correction of defective Work by Owner.

Indemnification

To the fullest extent permitted by Laws and Regulations, Contractor shall indemnify and hold harmless Owner and Engineer, and the officers, directors, members, partners, employees, agents, consultants and subcontractors of each and any of them from and against all claims, costs, losses, and damages (including but not limited to all fees and charges of engineers, architects, attorneys, and other professionals and all court or arbitration or other dispute resolution costs) arising out of or relating to the performance of the Work, provided that any such claim, cost, loss, or damage is attributable to bodily injury, sickness, disease, or death, or to injury to or destruction of tangible property (other than the Work itself), including the loss of use resulting therefrom but only to the extent caused by any negligent act or omission of Contractor, any Subcontractor, any Supplier, or any individual or entity directly or indirectly employed by any of them to perform any of the Work or anyone for whose acts any of them may be liable .

In any and all claims against Owner or Engineer or any of their officers, directors, members, partners, employees, agents, consultants, or subcontractors by any employee (or the survivor or personal representative of such employee) of Contractor, any Subcontractor, any Supplier, or any individual or entity directly or indirectly employed by any of them to perform any of the Work, or anyone for whose acts any of them may be liable, the indemnification obligation under Paragraph 6.20.A shall not be limited in any way by any limitation on the amount or type of damages, compensation, or benefits payable by or for Contractor or any such Subcontractor, Supplier, or other individual or entity under workers' compensation acts, disability benefit acts, or other employee benefit acts.

The indemnification obligations of Contractor under Paragraph 6.20.A shall not extend to the liability of Engineer and Engineer's officers, directors, members, partners, employees, agents, consultants and subcontractors arising out of:

the preparation or approval of, or the failure to prepare or approve maps, Drawings, opinions, reports, surveys, Change Orders, designs, or Specifications; or

giving directions or instructions, or failing to give them, if that is the primary cause of the injury or damage.

Delegation of Professional Design Services

Contractor will not be required to provide professional design services unless such services are specifically required by the Contract Documents for a portion of the Work or unless such services are required to carry out Contractor's responsibilities for construction means, methods, techniques, sequences and procedures. Contractor shall not be required to provide professional services in violation of applicable law.

If professional design services or certifications by a design professional related to systems, materials or equipment are specifically required of Contractor by the Contract Documents, Owner and Engineer will specify all performance and design criteria that such services must satisfy. Contractor shall cause such services or certifications to be provided by a properly licensed professional, whose signature and seal shall appear on all drawings, calculations, specifications, certifications, Shop Drawings and other submittals prepared by such professional. Shop Drawings and other submittals related to the Work designed or certified by such professional, if prepared by others, shall bear such professional's written approval when submitted to Engineer.

Owner and Engineer shall be entitled to rely upon the adequacy, accuracy and completeness of the services, certifications or approvals performed by such design professionals, provided Owner and Engineer have specified to Contractor all performance and design criteria that such services must satisfy.

Pursuant to this Paragraph 6.21, Engineer's review and approval of design calculations and design drawings will be only for the limited purpose of checking for conformance with performance and design criteria given and the design concept expressed in the Contract Documents. Engineer's review and approval of Shop Drawings and other submittals (except design calculations and design drawings) will be only for the purpose stated in Paragraph 6.17.D.1.

Contractor shall not be responsible for the adequacy of the performance or design criteria required by the Contract Documents.

OTHER WORK AT THE SITE

Related Work at Site

Owner may perform other work related to the Project at the Site with Owner's employees, or through other direct contracts therefor, or have other work performed by utility owners. If such other work is not noted in the Contract Documents, then:

written notice thereof will be given to Contractor prior to starting any such other work; and

if Owner and Contractor are unable to agree on entitlement to or on the amount or extent, if any, of any adjustment in the Contract Price or Contract Times that should be allowed as a result of such other work, a Claim may be made therefor as provided in Paragraph 10.05.

Contractor shall afford each other contractor who is a party to such a direct contract, each utility owner, and Owner, if Owner is performing other work with Owner's employees, proper and safe access to the Site, provide a reasonable opportunity for the introduction and storage of materials and equipment and the execution of such other work, and properly coordinate the

Work with theirs. Contractor shall do all cutting, fitting, and patching of the Work that may be required to properly connect or otherwise make its several parts come together and properly integrate with such other work. Contractor shall not endanger any work of others by cutting, excavating, or otherwise altering such work; provided, however, that Contractor may cut or alter others' work with the written consent of Engineer and the others whose work will be affected. The duties and responsibilities of Contractor under this Paragraph are for the benefit of such utility owners and other contractors to the extent that there are comparable provisions for the benefit of Contractor in said direct contracts between Owner and such utility owners and other contractors.

If the proper execution or results of any part of Contractor's Work depends upon work performed by others under this Article 7, Contractor shall inspect such other work and promptly report to Engineer in writing any delays, defects, or deficiencies in such other work that render it unavailable or unsuitable for the proper execution and results of Contractor's Work. Contractor's failure to so report will constitute an acceptance of such other work as fit and proper for integration with Contractor's Work except for latent defects and deficiencies in such other work.

Coordination

If Owner intends to contract with others for the performance of other work on the Project at the Site, the following will be set forth in Supplementary Conditions:

the individual or entity who will have authority and responsibility for coordination of the activities among the various contractors will be identified;

the specific matters to be covered by such authority and responsibility will be itemized; and

the extent of such authority and responsibilities will be provided.

Unless otherwise provided in the Supplementary Conditions, Owner shall have sole authority and responsibility for such coordination.

Legal Relationships

Paragraphs 7.01.A and 7.02 are not applicable for utilities not under the control of Owner.

Each other direct contract of Owner under Paragraph 7.01.A shall provide that the other contractor is liable to Owner and Contractor for the reasonable direct delay and disruption costs incurred by Contractor as a result of the other contractor's wrongful actions or inactions.

Contractor shall be liable to Owner and any other contractor under direct contract to Owner for the reasonable direct delay and disruption costs incurred by such other contractor as a result of Contractor's wrongful action or inactions.

OWNER'S RESPONSIBILITIES

Communications to Contractor

Except as otherwise provided in these General Conditions, Owner shall issue all communications to Contractor through Engineer.

Replacement of Engineer

In case of termination of the employment of Engineer, Owner shall appoint an engineer to whom Contractor makes no reasonable objection, whose status under the Contract Documents shall be that of the former Engineer.

Furnish Data

Owner shall promptly furnish the data required of Owner under the Contract Documents.

Pay When Due

Owner shall make payments to Contractor when they are due as provided in Paragraphs 14.02.C and 14.07.C.

Lands and Easements; Reports and Tests

Owner's duties with respect to providing lands and easements and providing engineering surveys to establish reference points are set forth in Paragraphs 4.01 and 4.05. Paragraph 4.02 refers to Owner's identifying and making available to Contractor copies of reports of explorations and tests of subsurface conditions and drawings of physical conditions relating to existing surface or subsurface structures at the Site. Insurance

8.06 *Insurance*

A. Owner's responsibilities, if any, with respect to purchasing and maintaining liability and property insurance are set forth in Article 5.

Change Orders

Owner is obligated to execute Change Orders as indicated in Paragraph 10.03.

Inspections, Tests, and Approvals

Owner's responsibility with respect to certain inspections, tests, and approvals is set forth in Paragraph 13.03.B.

Limitations on Owner's Responsibilities

The Owner shall not supervise, direct, or have control or authority over, nor be responsible for, Contractor's means, methods, techniques, sequences, or procedures of construction, or the safety precautions and programs incident thereto, or for any failure of Contractor to comply with Laws and Regulations applicable to the performance of the Work. Owner will not be

responsible for Contractor's failure to perform the Work in accordance with the Contract Documents.

Undisclosed Hazardous Environmental Condition

Owner's responsibility in respect to an undisclosed Hazardous Environmental Condition is set forth in Paragraph 4.06.

Evidence of Financial Arrangements

Upon request of Contractor, Owner shall furnish Contractor reasonable evidence that financial arrangements have been made to satisfy Owner's obligations under the Contract Documents.

Compliance with Safety Program

While at the Site, Owner's employees and representatives shall comply with the specific applicable requirements of Contractor's safety programs of which Owner has been informed pursuant to Paragraph 6.13.D.

ENGINEER'S STATUS DURING CONSTRUCTION

Owner's Representative

Engineer will be Owner's representative during the construction period. The duties and responsibilities and the limitations of authority of Engineer as Owner's representative during construction are set forth in the Contract Documents.

Visits to Site

Engineer will make visits to the Site at intervals appropriate to the various stages of construction as Engineer deems necessary in order to observe as an experienced and qualified design professional the progress that has been made and the quality of the various aspects of Contractor's executed Work. Based on information obtained during such visits and observations, Engineer, for the benefit of Owner, will determine, in general, if the Work is proceeding in accordance with the Contract Documents. Engineer will not be required to make exhaustive or continuous inspections on the Site to check the quality or quantity of the Work. Engineer's efforts will be directed toward providing for Owner a greater degree of confidence that the completed Work will conform generally to the Contract Documents. On the basis of such visits and observations, Engineer will keep Owner informed of the progress of the Work and will endeavor to guard Owner against defective Work.

Engineer's visits and observations are subject to all the limitations on Engineer's authority and responsibility set forth in Paragraph 9.09. Particularly, but without limitation, during or as a result of Engineer's visits or observations of Contractor's Work, Engineer will not supervise, direct, control, or have authority over or be responsible for Contractor's means, methods, techniques, sequences, or procedures of construction, or the safety precautions and programs incident thereto, or for any failure of Contractor to comply with Laws and Regulations applicable to the performance of the Work.

Project Representative

If Owner and Engineer agree, Engineer will furnish a Resident Project Representative to assist Engineer in providing more extensive observation of the Work. The authority and responsibilities of any such Resident Project Representative and assistants will be as provided in the Supplementary Conditions, and limitations on the responsibilities thereof will be as provided in Paragraph 9.09. If Owner designates another representative or agent to represent Owner at the Site who is not Engineer's consultant, agent or employee, the responsibilities and authority and limitations thereon of such other individual or entity will be as provided in the Supplementary Conditions.

Authorized Variations in Work

Engineer may authorize minor variations in the Work from the requirements of the Contract Documents which do not involve an adjustment in the Contract Price or the Contract Times and are compatible with the design concept of the completed Project as a functioning whole as indicated by the Contract Documents. These may be accomplished by a Field Order and will be binding on Owner and also on Contractor, who shall perform the Work involved promptly. If Owner or Contractor believes that a Field Order justifies an adjustment in the Contract Price or Contract Times, or both, and the parties are unable to agree on entitlement to or on the amount or extent, if any, of any such adjustment, a Claim may be made therefor as provided in Paragraph 10.05.

Rejecting Defective Work

Engineer will have authority to reject Work which Engineer believes to be defective, or that Engineer believes will not produce a completed Project that conforms to the Contract Documents or that will prejudice the integrity of the design concept of the completed Project as a functioning whole as indicated by the Contract Documents. Engineer will also have authority to require special inspection or testing of the Work as provided in Paragraph 13.04, whether or not the Work is fabricated, installed, or completed.

Shop Drawings, Change Orders and Payments

In connection with Engineer's authority, and limitations thereof, as to Shop Drawings and Samples, see Paragraph 6.17.

In connection with Engineer's authority, and limitations thereof, as to design calculations and design drawings submitted in response to a delegation of professional design services, if any, see Paragraph 6.21.

In connection with Engineer's authority as to Change Orders, see Articles 10, 11, and 12.

In connection with Engineer's authority as to Applications for Payment, see Article 14.

Determinations for Unit Price Work

Engineer will determine the actual quantities and classifications of Unit Price Work performed by Contractor. Engineer will review with Contractor the Engineer's preliminary determinations on such matters before rendering a written decision thereon (by recommendation of an Application

for Payment or otherwise). Engineer's written decision thereon will be final and binding (except as modified by Engineer to reflect changed factual conditions or more accurate data) upon Owner and Contractor, subject to the provisions of Paragraph 10.05.

Decisions on Requirements of Contract Documents and Acceptability of Work

Engineer will be the initial interpreter of the requirements of the Contract Documents and judge of the acceptability of the Work thereunder. All matters in question and other matters between Owner and Contractor arising prior to the date final payment is due relating to the acceptability of the Work, and the interpretation of the requirements of the Contract Documents pertaining to the performance of the Work, will be referred initially to Engineer in writing within 30 days of the event giving rise to the question.

Engineer will, with reasonable promptness, render a written decision on the issue referred. If Owner or Contractor believes that any such decision entitles them to an adjustment in the Contract Price or Contract Times or both, a Claim may be made under Paragraph 10.05. The date of Engineer's decision shall be the date of the event giving rise to the issues referenced for the purposes of Paragraph 10.05.B.

Engineer's written decision on the issue referred will be final and binding on Owner and Contractor, subject to the provisions of Paragraph 10.05.

When functioning as interpreter and judge under this Paragraph 9.08, Engineer will not show partiality to Owner or Contractor and will not be liable in connection with any interpretation or decision rendered in good faith in such capacity.

Limitations on Engineer's Authority and Responsibilities

Neither Engineer's authority or responsibility under this Article 9 or under any other provision of the Contract Documents nor any decision made by Engineer in good faith either to exercise or not exercise such authority or responsibility or the undertaking, exercise, or performance of any authority or responsibility by Engineer shall create, impose, or give rise to any duty in contract, tort, or otherwise owed by Engineer to Contractor, any Subcontractor, any Supplier, any other individual or entity, or to any surety for or employee or agent of any of them.

Engineer will not supervise, direct, control, or have authority over or be responsible for Contractor's means, methods, techniques, sequences, or procedures of construction, or the safety precautions and programs incident thereto, or for any failure of Contractor to comply with Laws and Regulations applicable to the performance of the Work. Engineer will not be responsible for Contractor's failure to perform the Work in accordance with the Contract Documents.

Engineer will not be responsible for the acts or omissions of Contractor or of any Subcontractor, any Supplier, or of any other individual or entity performing any of the Work.

Engineer's review of the final Application for Payment and accompanying documentation and all maintenance and operating instructions, schedules, guarantees, bonds, certificates of inspection, tests and approvals, and other documentation required to be delivered by Paragraph 14.07.A will only be to determine generally that their content complies with the requirements of, and in

the case of certificates of inspections, tests, and approvals that the results certified indicate compliance with, the Contract Documents.

The limitations upon authority and responsibility set forth in this Paragraph 9.09 shall also apply to the Resident Project Representative, if any, and assistants, if any.

Compliance with Safety Program

While at the Site, Engineer's employees and representatives shall comply with the specific applicable requirements of Contractor's safety programs of which Engineer has been informed pursuant to Paragraph 6.13.D.

CHANGES IN THE WORK; CLAIMS

Authorized Changes in the Work

Without invalidating the Contract and without notice to any surety, Owner may, at any time or from time to time, order additions, deletions, or revisions in the Work by a Change Order, or a Work Change Directive. Upon receipt of any such document, Contractor shall promptly proceed with the Work involved which will be performed under the applicable conditions of the Contract Documents (except as otherwise specifically provided).

If Owner and Contractor are unable to agree on entitlement to, or on the amount or extent, if any, of an adjustment in the Contract Price or Contract Times, or both, that should be allowed as a result of a Work Change Directive, a Claim may be made therefor as provided in Paragraph 10.05.

Unauthorized Changes in the Work

Contractor shall not be entitled to an increase in the Contract Price or an extension of the Contract Times with respect to any work performed that is not required by the Contract Documents as amended, modified, or supplemented as provided in Paragraph 3.04, except in the case of an emergency as provided in Paragraph 6.16 or in the case of uncovering Work as provided in Paragraph 13.04.D.

Execution of Change Orders

Owner and Contractor shall execute appropriate Change Orders recommended by Engineer covering:

changes in the Work which are: (i) ordered by Owner pursuant to Paragraph 10.01.A, (ii) required because of acceptance of defective Work under Paragraph 13.08.A or Owner's correction of defective Work under Paragraph 13.09, or (iii) agreed to by the parties;

changes in the Contract Price or Contract Times which are agreed to by the parties, including any undisputed sum or amount of time for Work actually performed in accordance with a Work Change Directive; and

changes in the Contract Price or Contract Times which embody the substance of any written decision rendered by Engineer pursuant to Paragraph 10.05; provided that, in lieu of executing any such Change Order, an appeal may be taken from any such decision in accordance with the provisions of the Contract Documents and applicable Laws and Regulations, but during any such appeal, Contractor shall carry on the Work and adhere to the Progress Schedule as provided in Paragraph 6.18.A.

Notification to Surety

If the provisions of any bond require notice to be given to a surety of any change affecting the general scope of the Work or the provisions of the Contract Documents (including, but not limited to, Contract Price or Contract Times), the giving of any such notice will be Contractor's responsibility. The amount of each applicable bond will be adjusted to reflect the effect of any such change.

Claims

Engineer's Decision Required: All Claims, except those waived pursuant to Paragraph 14.09, shall be referred to the Engineer for decision. A decision by Engineer shall be required as a condition precedent to any exercise by Owner or Contractor of any rights or remedies either may otherwise have under the Contract Documents or by Laws and Regulations in respect of such Claims.

Notice: Written notice stating the general nature of each Claim shall be delivered by the claimant to Engineer and the other party to the Contract promptly (but in no event later than 30 days) after the start of the event giving rise thereto. The responsibility to substantiate a Claim shall rest with the party making the Claim. Notice of the amount or extent of the Claim, with supporting data shall be delivered to the Engineer and the other party to the Contract within 60 days after the start of such event (unless Engineer allows additional time for claimant to submit additional or more accurate data in support of such Claim). A Claim for an adjustment in Contract Price shall be prepared in accordance with the provisions of Paragraph 12.01.B. A Claim for an adjustment in Contract Times shall be prepared in accordance with the provisions of Paragraph 12.02.B. Each Claim shall be accompanied by claimant's written statement that the adjustment claimed is the entire adjustment to which the claimant believes it is entitled as a result of said event. The opposing party shall submit any response to Engineer and the claimant within 30 days after receipt of the claimant's last submittal (unless Engineer allows additional time).

Engineer's Action: Engineer will review each Claim and, within 30 days after receipt of the last submittal of the claimant or the last submittal of the opposing party, if any, take one of the following actions in writing:

deny the Claim in whole or in part;

approve the Claim; or

notify the parties that the Engineer is unable to resolve the Claim if, in the Engineer's sole discretion, it would be inappropriate for the Engineer to do so. For purposes of further resolution of the Claim, such notice shall be deemed a denial.

In the event that Engineer does not take action on a Claim within said 30 days, the Claim shall be deemed denied.

Engineer's written action under Paragraph 10.05.C or denial pursuant to Paragraphs 10.05.C.3 or 10.05.D will be final and binding upon Owner and Contractor, unless Owner or Contractor invoke the dispute resolution procedure set forth in Article 16 within 30 days of such action or denial.

No Claim for an adjustment in Contract Price or Contract Times will be valid if not submitted in accordance with this Paragraph 10.05.

COST OF THE WORK; ALLOWANCES; UNIT PRICE WORK

Cost of the Work

Costs Included: The term Cost of the Work means the sum of all costs, except those excluded in Paragraph 11.01.B, necessarily incurred and paid by Contractor in the proper performance of the Work. When the value of any Work covered by a Change Order or when a Claim for an adjustment in Contract Price is determined on the basis of Cost of the Work, the costs to be reimbursed to Contractor will be only those additional or incremental costs required because of the change in the Work or because of the event giving rise to the Claim. Except as otherwise may be agreed to in writing by Owner, such costs shall be in amounts no higher than those prevailing in the locality of the Project, shall not include any of the costs itemized in Paragraph 11.01.B, and shall include only the following items:

Payroll costs for employees in the direct employ of Contractor in the performance of the Work under schedules of job classifications agreed upon by Owner and Contractor. Such employees shall include, without limitation, superintendents, foremen, and other personnel employed full time on the Work. Payroll costs for employees not employed full time on the Work shall be apportioned on the basis of their time spent on the Work. Payroll costs shall include, but not be limited to, salaries and wages plus the cost of fringe benefits, which shall include social security contributions, unemployment, excise, and payroll taxes, workers' compensation, health and retirement benefits, bonuses, sick leave, vacation and holiday pay applicable thereto. The expenses of performing Work outside of regular working hours, on Saturday, Sunday, or legal holidays, shall be included in the above to the extent authorized by Owner.

Cost of all materials and equipment furnished and incorporated in the Work, including costs of transportation and storage thereof, and Suppliers' field services required in connection therewith. All cash discounts shall accrue to Contractor unless Owner deposits funds with Contractor with which to make payments, in which case the cash discounts shall accrue to Owner. All trade discounts, rebates and refunds and returns from sale of surplus materials and equipment shall accrue to Owner, and Contractor shall make provisions so that they may be obtained.

Payments made by Contractor to Subcontractors for Work performed by Subcontractors. If required by Owner, Contractor shall obtain competitive bids from subcontractors acceptable to Owner and Contractor and shall deliver such bids to Owner, who will then determine, with the advice of Engineer, which bids, if any, will be acceptable. If any subcontract provides that the Subcontractor is to be paid on the basis of Cost of the Work plus a fee, the Subcontractor's Cost of the Work and fee shall be determined in the same manner as Contractor's Cost of the Work and fee as provided in this Paragraph 11.01.

Costs of special consultants (including but not limited to engineers, architects, testing laboratories, surveyors, attorneys, and accountants) employed for services specifically related to the Work.

Supplemental costs including the following:

- bb. The proportion of necessary transportation, travel, and subsistence expenses of Contractor's employees incurred in discharge of duties connected with the Work.
- cc. Cost, including transportation and maintenance, of all materials, supplies, equipment, machinery, appliances, office, and temporary facilities at the Site, and hand tools not owned by the workers, which are consumed in the performance of the Work, and cost, less market value, of such items used but not consumed which remain the property of Contractor.
- dd. Rentals of all construction equipment and machinery, and the parts thereof whether rented from Contractor or others in accordance with rental agreements approved by Owner with the advice of Engineer, and the costs of transportation, loading, unloading, assembly, dismantling, and removal thereof. All such costs shall be in accordance with the terms of said rental agreements. The rental of any such equipment, machinery, or parts shall cease when the use thereof is no longer necessary for the Work.
- ee. Sales, consumer, use, and other similar taxes related to the Work, and for which Contractor is liable, as imposed by Laws and Regulations.
- ff. Deposits lost for causes other than negligence of Contractor, any Subcontractor, or anyone directly or indirectly employed by any of them or for whose acts any of them may be liable, and royalty payments and fees for permits and licenses.
- gg. Losses and damages (and related expenses) caused by damage to the Work, not compensated by insurance or otherwise, sustained by Contractor in connection with the performance of the Work (except losses and damages within the deductible amounts of property insurance established in accordance with Paragraph 5.06.D), provided such losses and damages have resulted from causes other than the negligence of Contractor, any Subcontractor, or anyone directly or indirectly employed by any of them or for whose acts any of them may be liable. Such losses shall include settlements made with the written consent and approval of Owner. No such losses, damages, and expenses shall be included in the Cost of the Work for the purpose of determining Contractor's fee.
- hh. The cost of utilities, fuel, and sanitary facilities at the Site.

- ii. Minor expenses such as telegrams, long distance telephone calls, telephone service at the Site, express and courier services, and similar petty cash items in connection with the Work.
- jj. The costs of premiums for all bonds and insurance Contractor is required by the Contract Documents to purchase and maintain.

Costs Excluded: The term Cost of the Work shall not include any of the following items:

Payroll costs and other compensation of Contractor's officers, executives, principals (of partnerships and sole proprietorships), general managers, safety managers, engineers, architects, estimators, attorneys, auditors, accountants, purchasing and contracting agents, expeditors, timekeepers, clerks, and other personnel employed by Contractor, whether at the Site or in Contractor's principal or branch office for general administration of the Work and not specifically included in the agreed upon schedule of job classifications referred to in Paragraph 11.01.A.1 or specifically covered by Paragraph 11.01.A.4, all of which are to be considered administrative costs covered by the Contractor's fee.

Expenses of Contractor's principal and branch offices other than Contractor's office at the Site.

Any part of Contractor's capital expenses, including interest on Contractor's capital employed for the Work and charges against Contractor for delinquent payments.

Costs due to the negligence of Contractor, any Subcontractor, or anyone directly or indirectly employed by any of them or for whose acts any of them may be liable, including but not limited to, the correction of defective Work, disposal of materials or equipment wrongly supplied, and making good any damage to property.

Other overhead or general expense costs of any kind and the costs of any item not specifically and expressly included in Paragraphs 11.01.A.

Contractor's Fee: When all the Work is performed on the basis of cost-plus, Contractor's fee shall be determined as set forth in the Agreement. When the value of any Work covered by a Change Order or when a Claim for an adjustment in Contract Price is determined on the basis of Cost of the Work, Contractor's fee shall be determined as set forth in Paragraph 12.01.C.

Documentation: Whenever the Cost of the Work for any purpose is to be determined pursuant to Paragraphs 11.01.A and 11.01.B, Contractor will establish and maintain records thereof in accordance with generally accepted accounting practices and submit in a form acceptable to Engineer an itemized cost breakdown together with supporting data.

Allowances

It is understood that Contractor has included in the Contract Price all allowances so named in the Contract Documents and shall cause the Work so covered to be performed for such sums and by such persons or entities as may be acceptable to Owner and Engineer.

Cash Allowances:

Contractor agrees that:

- kk. the cash allowances include the cost to Contractor (less any applicable trade discounts) of materials and equipment required by the allowances to be delivered at the Site, and all applicable taxes; and
- ll. Contractor's costs for unloading and handling on the Site, labor, installation, overhead, profit, and other expenses contemplated for the cash allowances have been included in the Contract Price and not in the allowances, and no demand for additional payment on account of any of the foregoing will be valid.

Contingency Allowance:

Contractor agrees that a contingency allowance, if any, is for the sole use of Owner to cover unanticipated costs.

Prior to final payment, an appropriate Change Order will be issued as recommended by Engineer to reflect actual amounts due Contractor on account of Work covered by allowances, and the Contract Price shall be correspondingly adjusted.

Unit Price Work

Where the Contract Documents provide that all or part of the Work is to be Unit Price Work, initially the Contract Price will be deemed to include for all Unit Price Work an amount equal to the sum of the unit price for each separately identified item of Unit Price Work times the estimated quantity of each item as indicated in the Agreement.

The estimated quantities of items of Unit Price Work are not guaranteed and are solely for the purpose of comparison of Bids and determining an initial Contract Price. Determinations of the actual quantities and classifications of Unit Price Work performed by Contractor will be made by Engineer subject to the provisions of Paragraph 9.07.

Each unit price will be deemed to include an amount considered by Contractor to be adequate to cover Contractor's overhead and profit for each separately identified item.

Owner or Contractor may make a Claim for an adjustment in the Contract Price in accordance with Paragraph 10.05 if:

the quantity of any item of Unit Price Work performed by Contractor differs materially and significantly from the estimated quantity of such item indicated in the Agreement; and

there is no corresponding adjustment with respect to any other item of Work; and

Contractor believes that Contractor is entitled to an increase in Contract Price as a result of having incurred additional expense or Owner believes that Owner is entitled to a decrease in Contract Price and the parties are unable to agree as to the amount of any such increase or decrease.

CHANGE OF CONTRACT PRICE; CHANGE OF CONTRACT TIMES

Change of Contract Price

The Contract Price may only be changed by a Change Order. Any Claim for an adjustment in the Contract Price shall be based on written notice submitted by the party making the Claim to the Engineer and the other party to the Contract in accordance with the provisions of Paragraph 10.05.

The value of any Work covered by a Change Order or of any Claim for an adjustment in the Contract Price will be determined as follows:

where the Work involved is covered by unit prices contained in the Contract Documents, by application of such unit prices to the quantities of the items involved (subject to the provisions of Paragraph 11.03); or

where the Work involved is not covered by unit prices contained in the Contract Documents, by a mutually agreed lump sum (which may include an allowance for overhead and profit not necessarily in accordance with Paragraph 12.01.C.2); or

where the Work involved is not covered by unit prices contained in the Contract Documents and agreement to a lump sum is not reached under Paragraph 12.01.B.2, on the basis of the Cost of the Work (determined as provided in Paragraph 11.01) plus a Contractor's fee for overhead and profit (determined as provided in Paragraph 12.01.C).

Contractor's Fee: The Contractor's fee for overhead and profit shall be determined as follows:

a mutually acceptable fixed fee; or

if a fixed fee is not agreed upon, then a fee based on the following percentages of the various portions of the Cost of the Work:

mm. for costs incurred under Paragraphs 11.01.A.1 and 11.01.A.2, the Contractor's fee shall be 15 percent;

nn. for costs incurred under Paragraph 11.01.A.3, the Contractor's fee shall be five percent;

oo. where one or more tiers of subcontracts are on the basis of Cost of the Work plus a fee and no fixed fee is agreed upon, the intent of Paragraphs 12.01.C.2.a and 12.01.C.2.b is that the Subcontractor who actually performs the Work, at whatever tier, will be paid a fee of 15 percent of the costs incurred by such Subcontractor under Paragraphs 11.01.A.1 and 11.01.A.2 and that any higher tier Subcontractor and Contractor will each be paid a fee of five percent of the amount paid to the next lower tier Subcontractor;

- pp. no fee shall be payable on the basis of costs itemized under Paragraphs 11.01.A.4, 11.01.A.5, and 11.01.B;
- qq. the amount of credit to be allowed by Contractor to Owner for any change which results in a net decrease in cost will be the amount of the actual net decrease in cost plus a deduction in Contractor's fee by an amount equal to five percent of such net decrease; and
- rr. when both additions and credits are involved in any one change, the adjustment in Contractor's fee shall be computed on the basis of the net change in accordance with Paragraphs 12.01.C.2.a through 12.01.C.2.e, inclusive.

Change of Contract Times

The Contract Times may only be changed by a Change Order. Any Claim for an adjustment in the Contract Times shall be based on written notice submitted by the party making the Claim to the Engineer and the other party to the Contract in accordance with the provisions of Paragraph 10.05.

Any adjustment of the Contract Times covered by a Change Order or any Claim for an adjustment in the Contract Times will be determined in accordance with the provisions of this Article 12.

Delays

Where Contractor is prevented from completing any part of the Work within the Contract Times due to delay beyond the control of Contractor, the Contract Times will be extended in an amount equal to the time lost due to such delay if a Claim is made therefor as provided in Paragraph 12.02.A. Delays beyond the control of Contractor shall include, but not be limited to, acts or neglect by Owner, acts or neglect of utility owners or other contractors performing other work as contemplated by Article 7, fires, floods, epidemics, abnormal weather conditions, or acts of God.

If Owner, Engineer, or other contractors or utility owners performing other work for Owner as contemplated by Article 7, or anyone for whom Owner is responsible, delays, disrupts, or interferes with the performance or progress of the Work, then Contractor shall be entitled to an equitable adjustment in the Contract Price or the Contract Times, or both. Contractor's entitlement to an adjustment of the Contract Times is conditioned on such adjustment being essential to Contractor's ability to complete the Work within the Contract Times.

If Contractor is delayed in the performance or progress of the Work by fire, flood, epidemic, abnormal weather conditions, acts of God, acts or failures to act of utility owners not under the control of Owner, or other causes not the fault of and beyond control of Owner and Contractor, then Contractor shall be entitled to an equitable adjustment in Contract Times, if such adjustment is essential to Contractor's ability to complete the Work within the Contract Times. Such an adjustment shall be Contractor's sole and exclusive remedy for the delays described in this Paragraph 12.03.C.

Owner, Engineer, and their officers, directors, members, partners, employees, agents, consultants, or subcontractors shall not be liable to Contractor for any claims, costs, losses, or damages (including but not limited to all fees and charges of engineers, architects, attorneys, and other

professionals and all court or arbitration or other dispute resolution costs) sustained by Contractor on or in connection with any other project or anticipated project.

Contractor shall not be entitled to an adjustment in Contract Price or Contract Times for delays within the control of Contractor. Delays attributable to and within the control of a Subcontractor or Supplier shall be deemed to be delays within the control of Contractor.

TESTS AND INSPECTIONS; CORRECTION, REMOVAL OR ACCEPTANCE OF DEFECTIVE WORK

Notice of Defects

Prompt notice of all defective Work of which Owner or Engineer has actual knowledge will be given to Contractor. Defective Work may be rejected, corrected, or accepted as provided in this Article 13.

Access to Work

Owner, Engineer, their consultants and other representatives and personnel of Owner, independent testing laboratories, and governmental agencies with jurisdictional interests will have access to the Site and the Work at reasonable times for their observation, inspection, and testing. Contractor shall provide them proper and safe conditions for such access and advise them of Contractor's safety procedures and programs so that they may comply therewith as applicable.

Tests and Inspections

Contractor shall give Engineer timely notice of readiness of the Work for all required inspections, tests, or approvals and shall cooperate with inspection and testing personnel to facilitate required inspections or tests.

Owner shall employ and pay for the services of an independent testing laboratory to perform all inspections, tests, or approvals required by the Contract Documents except:

for inspections, tests, or approvals covered by Paragraphs 13.03.C and 13.03.D below;

that costs incurred in connection with tests or inspections conducted pursuant to Paragraph 13.04.B shall be paid as provided in Paragraph 13.04.C; and

as otherwise specifically provided in the Contract Documents.

If Laws or Regulations of any public body having jurisdiction require any Work (or part thereof) specifically to be inspected, tested, or approved by an employee or other representative of such public body, Contractor shall assume full responsibility for arranging and obtaining such inspections, tests, or approvals, pay all costs in connection therewith, and furnish Engineer the required certificates of inspection or approval.

Contractor shall be responsible for arranging and obtaining and shall pay all costs in connection with any inspections, tests, or approvals required for Owner's and Engineer's acceptance of

materials or equipment to be incorporated in the Work; or acceptance of materials, mix designs, or equipment submitted for approval prior to Contractor's purchase thereof for incorporation in the Work. Such inspections, tests, or approvals shall be performed by organizations acceptable to Owner and Engineer.

If any Work (or the work of others) that is to be inspected, tested, or approved is covered by Contractor without written concurrence of Engineer, Contractor shall, if requested by Engineer, uncover such Work for observation.

Uncovering Work as provided in Paragraph 13.03.E shall be at Contractor's expense unless Contractor has given Engineer timely notice of Contractor's intention to cover the same and Engineer has not acted with reasonable promptness in response to such notice.

Uncovering Work

If any Work is covered contrary to the written request of Engineer, it must, if requested by Engineer, be uncovered for Engineer's observation and replaced at Contractor's expense.

If Engineer considers it necessary or advisable that covered Work be observed by Engineer or inspected or tested by others, Contractor, at Engineer's request, shall uncover, expose, or otherwise make available for observation, inspection, or testing as Engineer may require, that portion of the Work in question, furnishing all necessary labor, material, and equipment.

If it is found that the uncovered Work is defective, Contractor shall pay all claims, costs, losses, and damages (including but not limited to all fees and charges of engineers, architects, attorneys, and other professionals and all court or arbitration or other dispute resolution costs) arising out of or relating to such uncovering, exposure, observation, inspection, and testing, and of satisfactory replacement or reconstruction (including but not limited to all costs of repair or replacement of work of others); and Owner shall be entitled to an appropriate decrease in the Contract Price. If the parties are unable to agree as to the amount thereof, Owner may make a Claim therefor as provided in Paragraph 10.05.

If the uncovered Work is not found to be defective, Contractor shall be allowed an increase in the Contract Price or an extension of the Contract Times, or both, directly attributable to such uncovering, exposure, observation, inspection, testing, replacement, and reconstruction. If the parties are unable to agree as to the amount or extent thereof, Contractor may make a Claim therefor as provided in Paragraph 10.05.

Owner May Stop the Work

If the Work is defective, or Contractor fails to supply sufficient skilled workers or suitable materials or equipment, or fails to perform the Work in such a way that the completed Work will conform to the Contract Documents, Owner may order Contractor to stop the Work, or any portion thereof, until the cause for such order has been eliminated; however, this right of Owner to stop the Work shall not give rise to any duty on the part of Owner to exercise this right for the benefit of Contractor, any Subcontractor, any Supplier, any other individual or entity, or any surety for, or employee or agent of any of them.

Correction or Removal of Defective Work

Promptly after receipt of written notice, Contractor shall correct all defective Work, whether or not fabricated, installed, or completed, or, if the Work has been rejected by Engineer, remove it from the Project and replace it with Work that is not defective. Contractor shall pay all claims, costs, losses, and damages (including but not limited to all fees and charges of engineers, architects, attorneys, and other professionals and all court or arbitration or other dispute resolution costs) arising out of or relating to such correction or removal (including but not limited to all costs of repair or replacement of work of others).

When correcting defective Work under the terms of this Paragraph 13.06 or Paragraph 13.07, Contractor shall take no action that would void or otherwise impair Owner's special warranty and guarantee, if any, on said Work.

Correction Period

If within one year after the date of Substantial Completion (or such longer period of time as may be prescribed by the terms of any applicable special guarantee required by the Contract Documents) or by any specific provision of the Contract Documents, any Work is found to be defective, or if the repair of any damages to the land or areas made available for Contractor's use by Owner or permitted by Laws and Regulations as contemplated in Paragraph 6.11.A is found to be defective, Contractor shall promptly, without cost to Owner and in accordance with Owner's written instructions:

repair such defective land or areas; or

correct such defective Work; or

if the defective Work has been rejected by Owner, remove it from the Project and replace it with Work that is not defective, and

satisfactorily correct or repair or remove and replace any damage to other Work, to the work of others or other land or areas resulting therefrom.

If Contractor does not promptly comply with the terms of Owner's written instructions, or in an emergency where delay would cause serious risk of loss or damage, Owner may have the defective Work corrected or repaired or may have the rejected Work removed and replaced. All claims, costs, losses, and damages (including but not limited to all fees and charges of engineers, architects, attorneys, and other professionals and all court or arbitration or other dispute resolution costs) arising out of or relating to such correction or repair or such removal and replacement (including but not limited to all costs of repair or replacement of work of others) will be paid by Contractor.

In special circumstances where a particular item of equipment is placed in continuous service before Substantial Completion of all the Work, the correction period for that item may start to run from an earlier date if so provided in the Specifications.

Where defective Work (and damage to other Work resulting therefrom) has been corrected or removed and replaced under this Paragraph 13.07, the correction period hereunder with respect

to such Work will be extended for an additional period of one year after such correction or removal and replacement has been satisfactorily completed.

Contractor's obligations under this Paragraph 13.07 are in addition to any other obligation or warranty. The provisions of this Paragraph 13.07 shall not be construed as a substitute for, or a waiver of, the provisions of any applicable statute of limitation or repose.

Acceptance of Defective Work

If, instead of requiring correction or removal and replacement of defective Work, Owner (and, prior to Engineer's recommendation of final payment, Engineer) prefers to accept it, Owner may do so. Contractor shall pay all claims, costs, losses, and damages (including but not limited to all fees and charges of engineers, architects, attorneys, and other professionals and all court or arbitration or other dispute resolution costs) attributable to Owner's evaluation of and determination to accept such defective Work (such costs to be approved by Engineer as to reasonableness) and for the diminished value of the Work to the extent not otherwise paid by Contractor pursuant to this sentence. If any such acceptance occurs prior to Engineer's recommendation of final payment, a Change Order will be issued incorporating the necessary revisions in the Contract Documents with respect to the Work, and Owner shall be entitled to an appropriate decrease in the Contract Price, reflecting the diminished value of Work so accepted. If the parties are unable to agree as to the amount thereof, Owner may make a Claim therefor as provided in Paragraph 10.05. If the acceptance occurs after such recommendation, an appropriate amount will be paid by Contractor to Owner.

Owner May Correct Defective Work

If Contractor fails within a reasonable time after written notice from Engineer to correct defective Work, or to remove and replace rejected Work as required by Engineer in accordance with Paragraph 13.06.A, or if Contractor fails to perform the Work in accordance with the Contract Documents, or if Contractor fails to comply with any other provision of the Contract Documents, Owner may, after seven days written notice to Contractor, correct, or remedy any such deficiency.

In exercising the rights and remedies under this Paragraph 13.09, Owner shall proceed expeditiously. In connection with such corrective or remedial action, Owner may exclude Contractor from all or part of the Site, take possession of all or part of the Work and suspend Contractor's services related thereto, take possession of Contractor's tools, appliances, construction equipment and machinery at the Site, and incorporate in the Work all materials and equipment stored at the Site or for which Owner has paid Contractor but which are stored elsewhere. Contractor shall allow Owner, Owner's representatives, agents and employees, Owner's other contractors, and Engineer and Engineer's consultants access to the Site to enable Owner to exercise the rights and remedies under this Paragraph.

All claims, costs, losses, and damages (including but not limited to all fees and charges of engineers, architects, attorneys, and other professionals and all court or arbitration or other dispute resolution costs) incurred or sustained by Owner in exercising the rights and remedies under this Paragraph 13.09 will be charged against Contractor, and a Change Order will be issued incorporating the necessary revisions in the Contract Documents with respect to the Work; and Owner shall be entitled to an appropriate decrease in the Contract Price. If the

parties are unable to agree as to the amount of the adjustment, Owner may make a Claim therefor as provided in Paragraph 10.05. Such claims, costs, losses and damages will include but not be limited to all costs of repair, or replacement of work of others destroyed or damaged by correction, removal, or replacement of Contractor's defective Work.

Contractor shall not be allowed an extension of the Contract Times because of any delay in the performance of the Work attributable to the exercise by Owner of Owner's rights and remedies under this Paragraph 13.09.

ARTICLE 14 – PAYMENTS TO CONTRACTOR AND COMPLETION

Schedule of Values

The Schedule of Values established as provided in Paragraph 2.07.A will serve as the basis for progress payments and will be incorporated into a form of Application for Payment acceptable to Engineer. Progress payments on account of Unit Price Work will be based on the number of units completed.

Progress Payments

Applications for Payments:

At least 20 days before the date established in the Agreement for each progress payment (but not more often than once a month), Contractor shall submit to Engineer for review an Application for Payment filled out and signed by Contractor covering the Work completed as of the date of the Application and accompanied by such supporting documentation as is required by the Contract Documents. If payment is requested on the basis of materials and equipment not incorporated in the Work but delivered and suitably stored at the Site or at another location agreed to in writing, the Application for Payment shall also be accompanied by a bill of sale, invoice, or other documentation warranting that Owner has received the materials and equipment free and clear of all Liens and evidence that the materials and equipment are covered by appropriate property insurance or other arrangements to protect Owner's interest therein, all of which must be satisfactory to Owner.

Beginning with the second Application for Payment, each Application shall include an affidavit of Contractor stating that all previous progress payments received on account of the Work have been applied on account to discharge Contractor's legitimate obligations associated with prior Applications for Payment.

The amount of retainage with respect to progress payments will be as stipulated in the Agreement.

Review of Applications:

Engineer will, within 10 days after receipt of each Application for Payment, either indicate in writing a recommendation of payment and present the Application to Owner or return the Application to Contractor indicating in writing Engineer's reasons for refusing to recommend payment. In the latter case, Contractor may make the necessary corrections and resubmit the Application.

Engineer's recommendation of any payment requested in an Application for Payment will constitute a representation by Engineer to Owner, based on Engineer's observations of the executed Work as an experienced and qualified design professional, and on Engineer's review of the Application for Payment and the accompanying data and schedules, that to the best of Engineer's knowledge, information and belief:

- a. the Work has progressed to the point indicated;
- b. the quality of the Work is generally in accordance with the Contract Documents (subject to an evaluation of the Work as a functioning whole prior to or upon Substantial Completion, the results of any subsequent tests called for in the Contract Documents, a final determination of quantities and classifications for Unit Price Work under Paragraph 9.07, and any other qualifications stated in the recommendation); and
- c. the conditions precedent to Contractor's being entitled to such payment appear to have been fulfilled in so far as it is Engineer's responsibility to observe the Work.

By recommending any such payment Engineer will not thereby be deemed to have represented that:

- d. inspections made to check the quality or the quantity of the Work as it has been performed have been exhaustive, extended to every aspect of the Work in progress, or involved detailed inspections of the Work beyond the responsibilities specifically assigned to Engineer in the Contract Documents; or
- e. there may not be other matters or issues between the parties that might entitle Contractor to be paid additionally by Owner or entitle Owner to withhold payment to Contractor.

Neither Engineer's review of Contractor's Work for the purposes of recommending payments nor Engineer's recommendation of any payment, including final payment, will impose responsibility on Engineer:

- f. to supervise, direct, or control the Work, or
- g. for the means, methods, techniques, sequences, or procedures of construction, or the safety precautions and programs incident thereto, or
- h. for Contractor's failure to comply with Laws and Regulations applicable to Contractor's performance of the Work, or
- i. to make any examination to ascertain how or for what purposes Contractor has used the moneys paid on account of the Contract Price, or
- j. to determine that title to any of the Work, materials, or equipment has passed to Owner free and clear of any Liens.

Engineer may refuse to recommend the whole or any part of any payment if, in Engineer's opinion, it would be incorrect to make the representations to Owner stated in Paragraph 14.02.B.2. Engineer may also refuse to recommend any such payment or,

because of subsequently discovered evidence or the results of subsequent inspections or tests, revise or revoke any such payment recommendation previously made, to such extent as may be necessary in Engineer's opinion to protect Owner from loss because:

- k. the Work is defective, or completed Work has been damaged, requiring correction or replacement;
- l. the Contract Price has been reduced by Change Orders;
- m. Owner has been required to correct defective Work or complete Work in accordance with Paragraph 13.09; or
- n. Engineer has actual knowledge of the occurrence of any of the events enumerated in Paragraph 15.02.A.

Payment Becomes Due:

Ten days after presentation of the Application for Payment to Owner with Engineer's recommendation, the amount recommended will (subject to the provisions of Paragraph 14.02.D) become due, and when due will be paid by Owner to Contractor.

Reduction in Payment:

Owner may refuse to make payment of the full amount recommended by Engineer because:

- o. claims have been made against Owner on account of Contractor's performance or furnishing of the Work;
- p. Liens have been filed in connection with the Work, except where Contractor has delivered a specific bond satisfactory to Owner to secure the satisfaction and discharge of such Liens;
- q. there are other items entitling Owner to a set-off against the amount recommended; or
- r. Owner has actual knowledge of the occurrence of any of the events enumerated in Paragraphs 14.02.B.5.a through 14.02.B.5.c or Paragraph 15.02.A.

If Owner refuses to make payment of the full amount recommended by Engineer, Owner will give Contractor immediate written notice (with a copy to Engineer) stating the reasons for such action and promptly pay Contractor any amount remaining after deduction of the amount so withheld. Owner shall promptly pay Contractor the amount so withheld, or any adjustment thereto agreed to by Owner and Contractor, when Contractor remedies the reasons for such action.

Upon a subsequent determination that Owner's refusal of payment was not justified, the amount wrongfully withheld shall be treated as an amount due as determined by Paragraph 14.02.C.1 and subject to interest as provided in the Agreement.

Contractor's Warranty of Title

Contractor warrants and guarantees that title to all Work, materials, and equipment covered by any Application for Payment, whether incorporated in the Project or not, will pass to Owner no later than the time of payment free and clear of all Liens.

Substantial Completion

When Contractor considers the entire Work ready for its intended use Contractor shall notify Owner and Engineer in writing that the entire Work is substantially complete (except for items specifically listed by Contractor as incomplete) and request that Engineer issue a certificate of Substantial Completion.

Promptly after Contractor's notification, Owner, Contractor, and Engineer shall make an inspection of the Work to determine the status of completion. If Engineer does not consider the Work substantially complete, Engineer will notify Contractor in writing giving the reasons therefor.

If Engineer considers the Work substantially complete, Engineer will deliver to Owner a tentative certificate of Substantial Completion which shall fix the date of Substantial Completion. There shall be attached to the certificate a tentative list of items to be completed or corrected before final payment. Owner shall have seven days after receipt of the tentative certificate during which to make written objection to Engineer as to any provisions of the certificate or attached list. If, after considering such objections, Engineer concludes that the Work is not substantially complete, Engineer will, within 14 days after submission of the tentative certificate to Owner, notify Contractor in writing, stating the reasons therefor. If, after consideration of Owner's objections, Engineer considers the Work substantially complete, Engineer will, within said 14 days, execute and deliver to Owner and Contractor a definitive certificate of Substantial Completion (with a revised tentative list of items to be completed or corrected) reflecting such changes from the tentative certificate as Engineer believes justified after consideration of any objections from Owner.

At the time of delivery of the tentative certificate of Substantial Completion, Engineer will deliver to Owner and Contractor a written recommendation as to division of responsibilities pending final payment between Owner and Contractor with respect to security, operation, safety, and protection of the Work, maintenance, heat, utilities, insurance, and warranties and guarantees. Unless Owner and Contractor agree otherwise in writing and so inform Engineer in writing prior to Engineer's issuing the definitive certificate of Substantial Completion, Engineer's aforesaid recommendation will be binding on Owner and Contractor until final payment.

Owner shall have the right to exclude Contractor from the Site after the date of Substantial Completion subject to allowing Contractor reasonable access to remove its property and complete or correct items on the tentative list.

Partial Utilization

Prior to Substantial Completion of all the Work, Owner may use or occupy any substantially completed part of the Work which has specifically been identified in the Contract Documents, or which Owner, Engineer, and Contractor agree constitutes a separately functioning and usable part of the Work that can be used by Owner for its intended purpose without significant

interference with Contractor's performance of the remainder of the Work, subject to the following conditions:

Owner at any time may request Contractor in writing to permit Owner to use or occupy any such part of the Work which Owner believes to be ready for its intended use and substantially complete. If and when Contractor agrees that such part of the Work is substantially complete, Contractor, Owner, and Engineer will follow the procedures of Paragraph 14.04.A through D for that part of the Work.

Contractor at any time may notify Owner and Engineer in writing that Contractor considers any such part of the Work ready for its intended use and substantially complete and request Engineer to issue a certificate of Substantial Completion for that part of the Work.

Within a reasonable time after either such request, Owner, Contractor, and Engineer shall make an inspection of that part of the Work to determine its status of completion. If Engineer does not consider that part of the Work to be substantially complete, Engineer will notify Owner and Contractor in writing giving the reasons therefor. If Engineer considers that part of the Work to be substantially complete, the provisions of Paragraph 14.04 will apply with respect to certification of Substantial Completion of that part of the Work and the division of responsibility in respect thereof and access thereto.

No use or occupancy or separate operation of part of the Work may occur prior to compliance with the requirements of Paragraph 5.10 regarding property insurance.

Final Inspection

Upon written notice from Contractor that the entire Work or an agreed portion thereof is complete, Engineer will promptly make a final inspection with Owner and Contractor and will notify Contractor in writing of all particulars in which this inspection reveals that the Work is incomplete or defective. Contractor shall immediately take such measures as are necessary to complete such Work or remedy such deficiencies.

Final Payment

Application for Payment:

After Contractor has, in the opinion of Engineer, satisfactorily completed all corrections identified during the final inspection and has delivered, in accordance with the Contract Documents, all maintenance and operating instructions, schedules, guarantees, bonds, certificates or other evidence of insurance, certificates of inspection, marked-up record documents (as provided in Paragraph 6.12), and other documents, Contractor may make application for final payment following the procedure for progress payments.

The final Application for Payment shall be accompanied (except as previously delivered) by:

- s. all documentation called for in the Contract Documents, including but not limited to the evidence of insurance required by Paragraph 5.04.B.6;
- t. consent of the surety, if any, to final payment;

- u. a list of all Claims against Owner that Contractor believes are unsettled; and
- v. complete and legally effective releases or waivers (satisfactory to Owner) of all Lien rights arising out of or Liens filed in connection with the Work.

In lieu of the releases or waivers of Liens specified in Paragraph 14.07.A.2 and as approved by Owner, Contractor may furnish receipts or releases in full and an affidavit of Contractor that: (i) the releases and receipts include all labor, services, material, and equipment for which a Lien could be filed; and (ii) all payrolls, material and equipment bills, and other indebtedness connected with the Work for which Owner might in any way be responsible, or which might in any way result in liens or other burdens on Owner's property, have been paid or otherwise satisfied. If any Subcontractor or Supplier fails to furnish such a release or receipt in full, Contractor may furnish a bond or other collateral satisfactory to Owner to indemnify Owner against any Lien.

Engineer's Review of Application and Acceptance:

If, on the basis of Engineer's observation of the Work during construction and final inspection, and Engineer's review of the final Application for Payment and accompanying documentation as required by the Contract Documents, Engineer is satisfied that the Work has been completed and Contractor's other obligations under the Contract Documents have been fulfilled, Engineer will, within ten days after receipt of the final Application for Payment, indicate in writing Engineer's recommendation of payment and present the Application for Payment to Owner for payment. At the same time Engineer will also give written notice to Owner and Contractor that the Work is acceptable subject to the provisions of Paragraph 14.09. Otherwise, Engineer will return the Application for Payment to Contractor, indicating in writing the reasons for refusing to recommend final payment, in which case Contractor shall make the necessary corrections and resubmit the Application for Payment.

Payment Becomes Due:

Thirty days after the presentation to Owner of the Application for Payment and accompanying documentation, the amount recommended by Engineer, less any sum Owner is entitled to set off against Engineer's recommendation, including but not limited to liquidated damages, will become due and will be paid by Owner to Contractor.

Final Completion Delayed

If, through no fault of Contractor, final completion of the Work is significantly delayed, and if Engineer so confirms, Owner shall, upon receipt of Contractor's final Application for Payment (for Work fully completed and accepted) and recommendation of Engineer, and without terminating the Contract, make payment of the balance due for that portion of the Work fully completed and accepted. If the remaining balance to be held by Owner for Work not fully completed or corrected is less than the retainage stipulated in the Agreement, and if bonds have been furnished as required in Paragraph 5.01, the written consent of the surety to the payment of the balance due for that portion of the Work fully completed and accepted shall be submitted by Contractor to Engineer with the Application for such payment. Such payment shall be made

under the terms and conditions governing final payment, except that it shall not constitute a waiver of Claims.

Waiver of Claims

The making and acceptance of final payment will constitute:

- a waiver of all Claims by Owner against Contractor, except Claims arising from unsettled Liens, from defective Work appearing after final inspection pursuant to Paragraph 14.06, from failure to comply with the Contract Documents or the terms of any special guarantees specified therein, or from Contractor's continuing obligations under the Contract Documents; and
- a waiver of all Claims by Contractor against Owner other than those previously made in accordance with the requirements herein and expressly acknowledged by Owner in writing as still unsettled.

SUSPENSION OF WORK AND TERMINATION

Owner May Suspend Work

At any time and without cause, Owner may suspend the Work or any portion thereof for a period of not more than 90 consecutive days by notice in writing to Contractor and Engineer which will fix the date on which Work will be resumed. Contractor shall resume the Work on the date so fixed. Contractor shall be granted an adjustment in the Contract Price or an extension of the Contract Times, or both, directly attributable to any such suspension if Contractor makes a Claim therefor as provided in Paragraph 10.05.

Owner May Terminate for Cause

The occurrence of any one or more of the following events will justify termination for cause:

Contractor's persistent failure to perform the Work in accordance with the Contract Documents (including, but not limited to, failure to supply sufficient skilled workers or suitable materials or equipment or failure to adhere to the Progress Schedule established under Paragraph 2.07 as adjusted from time to time pursuant to Paragraph 6.04);

Contractor's disregard of Laws or Regulations of any public body having jurisdiction;

Contractor's repeated disregard of the authority of Engineer; or

Contractor's violation in any substantial way of any provisions of the Contract Documents.

If one or more of the events identified in Paragraph 15.02.A occur, Owner may, after giving Contractor (and surety) seven days written notice of its intent to terminate the services of Contractor:

exclude Contractor from the Site, and take possession of the Work and of all Contractor's tools, appliances, construction equipment, and machinery at the Site, and use the same to the full

extent they could be used by Contractor (without liability to Contractor for trespass or conversion);

incorporate in the Work all materials and equipment stored at the Site or for which Owner has paid Contractor but which are stored elsewhere; and

complete the Work as Owner may deem expedient.

If Owner proceeds as provided in Paragraph 15.02.B, Contractor shall not be entitled to receive any further payment until the Work is completed. If the unpaid balance of the Contract Price exceeds all claims, costs, losses, and damages (including but not limited to all fees and charges of engineers, architects, attorneys, and other professionals and all court or arbitration or other dispute resolution costs) sustained by Owner arising out of or relating to completing the Work, such excess will be paid to Contractor. If such claims, costs, losses, and damages exceed such unpaid balance, Contractor shall pay the difference to Owner. Such claims, costs, losses, and damages incurred by Owner will be reviewed by Engineer as to their reasonableness and, when so approved by Engineer, incorporated in a Change Order. When exercising any rights or remedies under this Paragraph, Owner shall not be required to obtain the lowest price for the Work performed.

Notwithstanding Paragraphs 15.02.B and 15.02.C, Contractor's services will not be terminated if Contractor begins within seven days of receipt of notice of intent to terminate to correct its failure to perform and proceeds diligently to cure such failure within no more than 30 days of receipt of said notice.

Where Contractor's services have been so terminated by Owner, the termination will not affect any rights or remedies of Owner against Contractor then existing or which may thereafter accrue. Any retention or payment of moneys due Contractor by Owner will not release Contractor from liability.

If and to the extent that Contractor has provided a performance bond under the provisions of Paragraph 5.01.A, the termination procedures of that bond shall supersede the provisions of Paragraphs 15.02.B and 15.02.C.

Owner May Terminate For Convenience

Upon seven days written notice to Contractor and Engineer, Owner may, without cause and without prejudice to any other right or remedy of Owner, terminate the Contract. In such case, Contractor shall be paid for (without duplication of any items):

completed and acceptable Work executed in accordance with the Contract Documents prior to the effective date of termination, including fair and reasonable sums for overhead and profit on such Work;

expenses sustained prior to the effective date of termination in performing services and furnishing labor, materials, or equipment as required by the Contract Documents in connection with uncompleted Work, plus fair and reasonable sums for overhead and profit on such expenses;

all claims, costs, losses, and damages (including but not limited to all fees and charges of engineers, architects, attorneys, and other professionals and all court or arbitration or other dispute resolution costs) incurred in settlement of terminated contracts with Subcontractors, Suppliers, and others; and

reasonable expenses directly attributable to termination.

Contractor shall not be paid on account of loss of anticipated profits or revenue or other economic loss arising out of or resulting from such termination.

Contractor May Stop Work or Terminate

If, through no act or fault of Contractor, (i) the Work is suspended for more than 90 consecutive days by Owner or under an order of court or other public authority, or (ii) Engineer fails to act on any Application for Payment within 30 days after it is submitted, or (iii) Owner fails for 30 days to pay Contractor any sum finally determined to be due, then Contractor may, upon seven days written notice to Owner and Engineer, and provided Owner or Engineer do not remedy such suspension or failure within that time, terminate the Contract and recover from Owner payment on the same terms as provided in Paragraph 15.03.

In lieu of terminating the Contract and without prejudice to any other right or remedy, if Engineer has failed to act on an Application for Payment within 30 days after it is submitted, or Owner has failed for 30 days to pay Contractor any sum finally determined to be due, Contractor may, seven days after written notice to Owner and Engineer, stop the Work until payment is made of all such amounts due Contractor, including interest thereon. The provisions of this Paragraph 15.04 are not intended to preclude Contractor from making a Claim under Paragraph 10.05 for an adjustment in Contract Price or Contract Times or otherwise for expenses or damage directly attributable to Contractor's stopping the Work as permitted by this Paragraph.

DISPUTE RESOLUTION

Methods and Procedures

Either Owner or Contractor may request mediation of any Claim submitted to Engineer for a decision under Paragraph 10.05 before such decision becomes final and binding. The mediation will be governed by the Construction Industry Mediation Rules of the American Arbitration Association in effect as of the Effective Date of the Agreement. The request for mediation shall be submitted in writing to the American Arbitration Association and the other party to the Contract. Timely submission of the request shall stay the effect of Paragraph 10.05.E.

Owner and Contractor shall participate in the mediation process in good faith. The process shall be concluded within 60 days of filing of the request. The date of termination of the mediation shall be determined by application of the mediation rules referenced above.

If the Claim is not resolved by mediation, Engineer's action under Paragraph 10.05.C or a denial pursuant to Paragraphs 10.05.C.3 or 10.05.D shall become final and binding 30 days after termination of the mediation unless, within that time period, Owner or Contractor:

elects in writing to invoke any dispute resolution process provided for in the Supplementary Conditions; or

agrees with the other party to submit the Claim to another dispute resolution process; or

gives written notice to the other party of the intent to submit the Claim to a court of competent jurisdiction.

MISCELLANEOUS

Giving Notice

Whenever any provision of the Contract Documents requires the giving of written notice, it will be deemed to have been validly given if:

delivered in person to the individual or to a member of the firm or to an officer of the corporation for whom it is intended; or

delivered at or sent by registered or certified mail, postage prepaid, to the last business address known to the giver of the notice.

Computation of Times

When any period of time is referred to in the Contract Documents by days, it will be computed to exclude the first and include the last day of such period. If the last day of any such period falls on a Saturday or Sunday or on a day made a legal holiday by the law of the applicable jurisdiction, such day will be omitted from the computation.

Cumulative Remedies

The duties and obligations imposed by these General Conditions and the rights and remedies available hereunder to the parties hereto are in addition to, and are not to be construed in any way as a limitation of, any rights and remedies available to any or all of them which are otherwise imposed or available by Laws or Regulations, by special warranty or guarantee, or by other provisions of the Contract Documents. The provisions of this Paragraph will be as effective as if repeated specifically in the Contract Documents in connection with each particular duty, obligation, right, and remedy to which they apply.

Survival of Obligations

All representations, indemnifications, warranties, and guarantees made in, required by, or given in accordance with the Contract Documents, as well as all continuing obligations indicated in the Contract Documents, will survive final payment, completion, and acceptance of the Work or termination or completion of the Contract or termination of the services of Contractor.

Controlling Law

This Contract is to be governed by the law of the state in which the Project is located.

Headings

Article and paragraph headings are inserted for convenience only and do not constitute parts of these General Conditions.

Modifications to the Standard General Conditions of the Construction Contract

The following modifications to the Standard General Conditions will apply to this contract.

18.1 Commencement of contract time: Notice to Proceed:

Article 2.03 will be deleted entirely.

18.2 Contractors Liability Insurance:

Articles 5.05 and 5.06 will be deleted entirely.

Article 5.03 shall be amended to reflect insurance requirements of the City of Alpena per Section VI in the Instructions to Bidders.

18.3 Waiver of Rights:

Article 5.07 will be deleted entirely.

18.4 Indemnifications:

Article 6.20 the wording "or arbitration" will be deleted.

18.5 Owner's Responsibility:

Article 8.02 will be deleted entirely.

18.6 Owner May Terminate:

Article 15.03 the wording "or arbitration" will be deleted.

18.7 Arbitration:

Article 16 will be deleted entirely.

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AIA Document A305

Contractor's Qualification Statement

1986 EDITION

This form is approved and recommended by The American Institute of Architects (AIA) and The Associated General Contractors of America (AGC) for use in evaluating the qualifications of contractors. No endorsement of the submitting party or verification of the information is made by the AIA or AGC.

The Undersigned certifies under oath that the information provided herein is true and sufficiently complete so as not to be misleading.

SUBMITTED TO:

ADDRESS:

SUBMITTED BY:

NAME:

ADDRESS:

PRINCIPAL OFFICE:

Corporation

Partnership

Individual

Joint Venture

Other

NAME OF PROJECT (if applicable):

TYPE OF WORK (file separate form for each Classification of Work):

_____ General Construction

_____ HVAC

_____ Plumbing

_____ Electrical

_____ Other _____

(please specify)

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- 1.6 If the form of your organization is other than those listed above, describe it and name the principals:

2. LICENSING

- 2.1 List jurisdictions and trade categories in which your organization is legally qualified to do business, and indicate registration or license numbers, if applicable.

- 2.2 List jurisdictions in which your organization's partnership or trade name is filed.

3. EXPERIENCE

- 3.1 List the categories of work that your organization normally performs with its own forces.

- 3.2 Claims and Suits. (If the answer to any of the questions below is yes, please attach details.)

3.2.1 Has your organization ever failed to complete any work awarded to it?

3.2.2 Are there any judgments, claims, arbitration proceedings or suits pending or outstanding against your organization or its officers?

3.2.3 Has your organization filed any law suits or requested arbitration with regard to construction contracts within the last five years?

- 3.3 Within the last five years, has any officer or principal of your organization ever been an officer or principal of another organization when it failed to complete a construction contract? (If the answer is yes, please attach details.)

3.4 On a separate sheet, list major construction projects your organization has in progress, giving the name of project, owner, architect, contract amount, percent complete and scheduled completion date.

3.4.1 State total worth of work in progress and under contract:

3.5 On a separate sheet, list the major projects your organization has completed in the past five years, giving the name of project, owner, architect, contract amount, date of completion and percentage of the cost of the work performed with your own forces.

3.5.1 State average annual amount of construction work performed during the past five years:

3.6 On a separate sheet, list the construction experience and present commitments of the key individuals of your organization.

4. REFERENCES

4.1 Trade References:

4.2 Bank References:

4.3 Surety:

4.3.1 Name of bonding company:

4.3.2 Name and address of agent:

5. FINANCING

5.1 Financial Statement.

5.1.1 Attach a financial statement, preferably audited, including your organization's latest balance sheet and income statement showing the following items:

Current Assets (e.g., cash, joint venture accounts, accounts receivable, notes receivable, accrued income, deposits, materials inventory and prepaid expenses);

Net Fixed Assets;

Other Assets;

Current Liabilities (e.g., accounts payable, notes payable, accrued expenses, provision for income taxes, advances, accrued salaries and accrued payroll taxes);

Other Liabilities (e.g., capital, capital stock, authorized and outstanding shares par values, earned surplus and retained earnings).

5.1.2 Name and address of firm preparing attached financial statement, and date thereof:

5.1.3 Is the attached financial statement for the identical organization named on page one?

5.1.4 If not, explain the relationship and financial responsibility of the organization whose financial statement is provided (e.g., parent-subsiary).

5.2 Will the organization whose financial statement is attached act as guarantor of the contract for construction?

6. SIGNATURE

6.1 Dated at _____ this _____ day of _____ 20____

Name of Organization:

By:

Title:

6.2

M _____ being
duly sworn deposes and says that the information provided herein is true and sufficiently complete so as not to be
misleading.

Subscribed and sworn before me this _____ day of _____ 20____

Notary Public:

My Commission Expires:



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SPECIAL PROVISION
FOR
Safety Requirements

ALP

1 of 1

01/09

a. Description of Work - While the Contractor is performing any work on or related to the project described by the specifications herein, they shall conform with all applicable occupational safety and health regulations as set forth by Federal, State, and Local agencies, especially, but not limited to MDOT, FHWA, OSHA, MIOSHA.

b. Materials - All materials, including, but not limited to, all safety equipment shall conform to the most current applicable standards and requirements.

c. Construction Operations - The Contractor shall be solely responsible for maintaining conformance with all applicable Federal, State, and Local safety requirements while performing any work for the City of Alpena as part of this contract. The City of Alpena shall not assume any responsibility, nor enforce, any safety standards or requirements. The Contractor shall hold the City of Alpena harmless to any violations incurred or fines received precipitating from non-conformance with any safety regulations.

The contractor SHALL provide a typed copy of the emergency contacts for this project at the pre-construction meeting or 72 hours prior to work.

d. Measurement and Payment - There shall be no additional payment for conformance with safety and health regulations. Any costs for fines, safety equipment, safety materials, or safety training as specified by Federal, State, and Local agencies initially or as a result of inspections at the job site shall be borne by the Contractor.

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City of Alpena
Special Provision
For
Excavation, Earth, LM, Modified

ALP

1 of 1

2/14

a. Description. All work in this section shall be done in accordance with Section 205.01 of the 2012 MDOT Standard Specifications for Construction.

b. Materials. All materials shall be as specified in Section 205.02 of the 2012 Standard Specifications for Construction.

c. Construction. All operations shall be as specified in Section 205.03 of the 2012 Standard Specifications for Construction and as modified herein.

Removal of all pipes 8" and smaller in diameter shall be included as part of this item.

Removal of all driveway approaches, of any material, shall be included as part of this item.

Unless otherwise specified, removal of HMA surface (street) shall be included as part of this item, as indicated on the typical cross-section sheet.

This item shall also include the removal of all materials including, but not limited to, topsoil, muck, peat, clay, and similar. No additional payment shall be made for varying classifications of material to be removed.

d. Measurement and Payment. The completed work of excavation will be measured by volume, loose measure, and paid for at the contract unit price for the following contract item (pay item):

<u>Pay Item</u>	<u>Pay Unit</u>
Excavation, Earth, LM, Modified	Cubic Yard

Payment for "Excavation, Earth, LM, Modified" will be based upon load tickets issued to the Engineer in field. The tickets will specify the loaded quantity for each truck carrying excavated material that has become the property of the contractor and is being removed from the site under the contract definition of "Excavation, Earth, LM, Modified". The quantities shown on the plans and in the proposal reflect a compacted volume multiplied by one hundred and twenty-five percent to approximate loose measure volume.

This item shall be measured from the top of existing materials to a max depth of 18 inches below the bottom of the proposed aggregate, as determined by the Engineer, and as shown on the typical sections.

City of Alpena
Special Provision
for
Aggregate Base, 22A, Modified

ALP

1 of 1

08/15

a. Description. This work shall consist of furnishing and placing of all aggregate base under proposed paved surfaces as described by the plan drawings in accordance with Section 302.01 of the 2012 MDOT Standard Specifications for Construction and as directed by the Engineer.

b. Materials. All materials shall be as specified in Section 302.02 of the 2012 Standard Specifications for Construction except as modified herein.

Aggregate shall be 100 percent crushed limestone meeting the gradation of Dense-Graded Aggregate 22A as described in the MDOT 2012 Standard Specifications for Construction.

c. Construction. All operations shall be as specified in Section 302.03 of the 2012 Standard Specifications for Construction.

d. Measurement and Payment. The completed work of furnishing and placing aggregate will be paid for at the contract unit price for the following contract item (pay item):

<u>Pay Item</u>	<u>Pay Unit</u>
Aggregate Base, 22A, Modified	Ton

Payment for "Aggregate Base, 22A, Modified" includes furnishing and placing aggregate as required on the plans or directed by the Engineer. Additional depth of aggregate that exceeds that called for on the plans or as directed by the Engineer, will not be eligible for payment.

Aggregate under HMA surface mainline, HMA approaches, and Aggregate Approaches shall be paid as "Aggregate Base, 22A, Modified".

SPECIAL PROVISION
FOR
HMA Base Crushing and Shaping, Modified

ALP

1 of 1

04/13

a. Description. This work shall consist of constructing a new aggregate base from an existing flexible pavement in accordance with Section 305.01 of the 2012 MDOT Standard Specifications for Construction and as directed by the Engineer.

b. Materials. All materials shall be as specified in Section 305.02 of the 2012 MDOT Standard Specifications for Construction.

c. Construction. All operations shall be as specified in Section 305.03 of the 2012 MDOT Standard Specifications for Construction.

d. Measurement and Payment. Payment for this item shall be as specified in Section 305.04 of the 2012 MDOT Standard Specifications for Construction except as modified herein:

Excess crushed material from other locations on the same project may be used to attain the plan grade and cross section. Relocation of this material, with or without trucking, shall not be paid for separately.

Surplus crushed material that will not be used on the project shall become property of the contractor and shall be hauled off the site. Contractor shall assume all responsibility for usage and/or disposal of material upon leaving the site. All work associated with material removal shall be included in the item "HMA Base Crushing and Shaping, Modified".

The completed work of "HMA Base Crushing and Shaping, Modified" shall be paid for at the contract unit price for the following contract item (pay item):

<u>Pay Item</u>	<u>Pay Unit</u>
HMA Base Crushing and Shaping, Modified	Square Yard

SPECIAL PROVISION
FOR
Adjusting Structures

ALP

1 of 1

09/14

a. Description of Work - This work shall consist of furnishing and adjusting of all drainage structure covers to the proposed paved surfaces as described by the plan drawings in accordance with Sections 403.01 for storm, sanitary, and other manhole structures and 823.01 for water structures of the 2012 Standard Specifications for Construction and as directed by the Engineer.

b. Materials - All materials shall be as specified in Section 403.02 and 823.02 of the 2012 Standard Specifications for Construction except as modified herein.

The City of Alpena will supply all gate box risers and manhole rings for the thin overlay portion of this project. The Contractor shall be responsible for obtaining the correct number and transporting to each site.

c. Construction Operations - All operations shall be as specified in Section 403.03 and 823.03 of the 2012 Standard Specifications for Construction except as modified herein.

If additional labor or materials is required to adjust water gate boxes, Contractor shall contact United Water personnel to complete this work.

Gas valve boxes shall be handled in a manner similar to the water gate boxes and the work shall be performed at the discretion of DTE Energy and subject to their inspection.

d. Measurement and Payment - The completed work of furnishing and adjusting structure covers will be paid for at the contract unit price for the following contract items (pay items):

<u>Pay Item</u>	<u>Pay Unit</u>
Dr Structure Cover, Adj, Case 1	Ea
Gate Box, Adj, Case 1	Ea
Gas Valve Box, Adj	Ea

City of Alpena
Special Provision
for
Shoulder, CI IV, 3 inch, Modified

ALP

1 of 1

02/17

a. Description. This work shall consist of furnishing and placing of all aggregate base under proposed paved surfaces as described by the plan drawings in accordance with Section 307.01 of the 2012 MDOT Standard Specifications for Construction and as directed by the Engineer.

b. Materials. All materials shall be as specified in Section 307.02 of the 2012 Standard Specifications for Construction except as modified herein.

c. Construction. All operations shall be as specified in Section 307.03 of the 2012 Standard Specifications for Construction.

d. Measurement and Payment. The completed work of furnishing and placing aggregate will be paid for at the contract unit price for the following contract item (pay item):

<u>Pay Item</u>	<u>Pay Unit</u>
Shoulder, CI IV, 3 inch, Modified	Syd

City of Alpena
Special Provision
For
HMA Surfaces

ALP

1 of 1

02/14

a. Description. This work shall consist of furnishing and placing of all HMA surfaces as described by the plan drawings in accordance with Section 501.01 of the 2012 MDOT Standard Specifications for Construction and as directed by the Engineer.

b. Materials. All materials shall be as specified in Section 501.02 of the 2012 MDOT Standard Specifications for Construction except as modified herein.

Mix Type	Total percent passing Indicated Sieve											Min % Crush	Max % Soft Part. (a)	Min Ang. Index (b)	L.A. Abrasion (max) (c)	Max Sand Ratio (d)
	1 ½	1	¾	½	3/8	#4	#8	#30	#50	#100	#200					
13A	-	-	100	75-95	60-90	45-80	30-65	15-40	10-25	5-15	3-6	25	8.0	2.5	40	50
<p>a. The sum of the shale, siltstone, structurally weak, and clay-ironstone particles must not exceed 8.0 percent for aggregates used in top course. The sum of the shale, siltstone, structurally weak, and clay-ironstone particles must not exceed 12.0 percent for aggregates used in base and leveling courses.</p> <p>b. The fine aggregate angularity of blended aggregates, determined by MTM 118, must meet the minimum requirement. In mixtures containing RAP, the required minimum fine aggregate angularity must be met by the virgin material. NAA fine aggregate angularity must be reported for information only and must include the fine material contributed by RAP if present in the mixture.</p> <p>c. Los Angeles abrasion maximum loss must be met for the composite mixture, however, each individual aggregate must be less than 50</p> <p>d. No more than 50% of the material passing the No. 4 sieve is allowed to pass the No. 30 Sieve.</p>																

c. Construction. All operations shall be as specified in Section 501.03 of the 2012 MDOT Standard Specifications for Construction.

d. Measurement and Payment. The completed work of furnishing and placing HMA mixture will be paid for at the contract unit price for the following contract item (pay item):

<u>Pay Item</u>	<u>Pay Unit</u>
HMA, 13A, Modified	Ton

Unless otherwise specified as "Hand Patching" or "HMA Approach", all paving around radii, intersection legs, and driveways shall be included as part of the mainline paving items and shall not be paid for separately.

City of Alpena
Special Provision
for
HMA Application Estimate

ALP

1 of 1

09/14

a. Description of Work. This work shall be done in accordance with the requirements of Section 501 of the 2012 Standard Specifications for Construction except as modified herein.

b. Materials. The HMA Mixture, 13A shall have a yield in accordance with the following table:

Project	Base Course	Top Course
Parking Lot	165 lbs/syd	165 lbs/syd
Streets	165 lbs/syd	165 lbs/syd

HMA bond coat application rate shall be 0.05 – 0.15 gallons per square yard.

Performance Grade: 58-22

AWI shall be minimum 220.

c. Construction. All operations shall be as specified in Section 501.03 of the 2012 Standard Specifications for Construction.

SPECIAL PROVISION
FOR
Street Cleaning

ALP

1 of 1

07/11

a. Description. This work shall consist of the items "Pavt, Cleaning" and "Joint and Crack, Cleanout" in accordance with Section 502 of the MDOT 2003 Standard Specifications for Construction and as directed by the Engineer.

b. Materials. All materials for the items "Pavt, Cleaning" and "Joint and Crack, Cleanout" shall be as specified in Section 501.02 of the MDOT 2003 Standard Specifications for Construction.

c. Construction. All operations for the items "Pavt, Cleaning" and "Joint and Crack, Cleanout" shall be as specified in Section 502.03 of the MDOT 2003 Standard Specifications for Construction

d. Measurement and Payment. The completed work for "Pavt, Cleaning" and "Joint and Crack, Cleanout" will be paid for at the contract unit price for the following contract item(s) (pay item(s)):

<u>Pay Item</u>	<u>Pay Unit</u>
Street Cleaning	LS

For projects containing multiple sections of work in different locations where equipment must be remobilized, the completed work shall include all, labor, equipment, and materials to remobilize and clean each street as part of the item "Street Cleaning". This mobilization shall not be paid for separately.

SPECIAL PROVISION
FOR
Traffic Control

ALP

1 of 2

03/04

a. Description. Traffic shall be controlled in accordance with Section 812.01 of the 2003 MDOT Standard Specifications for Construction and as modified herein.

The Contractor shall notify the Project Engineer a minimum of 72 hours prior to the implementation of any road or lane closures.

For projects adjacent to State-owned highways the City of Alpena shall obtain a permit to close a lane or road and the contractor shall execute this closure in accordance with the permit specifications and any other regulations set forth by the Michigan Department of Transportation prior to and during the closure. The contractor shall notify the Michigan Department of Transportation a minimum of 72 hours prior to execution of the closure.

Detour routing shall be as follows: None

Local traffic shall be maintained at all times and property owners, business customers and emergency vehicles shall be assured of access to their property.

The City of Alpena, Alpena Township, The Alpena County Road Commission and/or Contract Maintenance Agencies may perform maintenance work within or adjacent to the Construction Influence Area (CIA). These maintenance crews will coordinate their operations with the Project Engineer to minimize the interference to the Contractor. No additional payment will be made to the Contractor for the joint use of the traffic control items.

The construction influence area (CIA) shall consist of a 150' width about the project centerline, and a sufficient distance on adjacent and intersecting roads and streets, to warn motorists of the construction ahead.

b. Materials. All signs, barricades, warning lights, and other traffic control devices shall be in accordance with Section 812.02 of the 2003 MDOT Standard Specifications for Construction and the 2005 Michigan Manual of Uniform Traffic Control Devices (MMUTCD).

c. Construction. All operations shall be as specified in Section 812.03 of the 2003 MDOT Standard Specifications for Construction.

SPECIAL PROVISION
FOR
Traffic Control

ALP

2 of 2

03/04

d. Measurement and Payment. Unless specifically identified on the Plans or in the Proposal as pay items, the furnishing, installing, maintaining, lighting, moving and removing of any such temporary signs, barricades, and light boards adjacent to the work as the construction operations may require, and the maintaining of local traffic, shall be included in the payment for "Traffic Control".

No additional compensation shall be made for additional traffic control devices required by the City of Alpena when the project is along or adjacent to a City-Owned Street or when required by the Michigan Department of Transportation when project is adjacent to any State-owned highway.

Section 812.04.T, of the 2003 MDOT Standard Specifications for Construction, (Price Adjustments for Authorized Extensions of Time) is hereby deleted. No price adjustments will be made for extensions of time.

The following partial payment schedule shall apply

Percent of Original Contract Amount Earned	Total Percentage of Bid Price Paid
First Use	50
50	75
90	100

The completed work as measured for "Traffic Control" will be paid for at the contract unit prices for the following contract item (pay item), which price shall be payment in full for furnishing all materials and all work specified herein:

<u>Pay Item</u>	<u>Pay Unit</u>
Traffic Control	LS

For projects containing multiple sections of work in different locations where traffic control devices must be remobilized the completed work as measured for Traffic Control will be paid for at the contract unit prices for the following contract item (pay item) per **each** separate, **entire** section of work in the project as identified by the project drawings:

<u>Pay Item</u>	<u>Pay Unit</u>
Traffic Control	Ea

SPECIAL PROVISION
FOR
Riser Installation

ALP

1 of 1

01/04

a. Description. This work shall consist of adjusting of all drainage structure covers and water valve boxes to the proposed paved surfaces as described by the plan drawings in accordance with Section 403.01 of the 2003 MDOT Standard Specifications for Construction and as directed by the Engineer.

b. Materials. All materials shall be supplied by the City of Alpena.

c. Construction. All operations shall be as specified in Section 403.03 of the 2003 MDOT Standard Specifications for Construction and as directed by the Engineer.

d. Measurement and Payment. The completed work of riser installation will be paid for at the contract unit price for the following contract item (pay item):

<u>Pay Item</u>	<u>Pay Unit</u>
Riser, Dr Structure, Install	Ea
Riser, Water Valve, Install	Ea

City of Alpena
Special Provision
for
Staking, Shaping, and Grading

ALP

1 of 1

04/13

a. Description. This work shall consist of all labor, equipment and materials required for staking, grading and shaping the base materials described by the plan drawings in accordance with Section 302.01 of the 2012 Standard Specifications for Construction and as directed by the Engineer.

b. Materials. All materials shall be as specified in Section 302.02 of the 2012 Standard Specifications for Construction and in accordance with the specifications contained in this project.

c. Construction. All operations shall be as specified in Section 302.03 of the 2012 Standard Specifications for Construction and as specified herein:

Prior to paving, the Contractor shall be responsible for all staking, shaping, and grading of the base materials to ensure positive drainage toward curbs and catch basin structures. Compaction of base materials shall be included as part of the item "HMA Base Crushing and Shaping, Modified".

Street cross-slope shall be a minimum of 2.5% and a maximum of 3.0% and crown at the midpoint between the curbs or defined edges of the street. Longitudinal grade shall follow the existing curb-lines or approximate shoulder points.

When grading streets without curb, Contractor shall ensure that driveways are positively draining toward the street at a slope no greater than 7%. However, drainage priority shall be given to the street and Contractor shall notify Engineer of driveways that may have negative drainage or greater than 7% drainage.

Parking lots shall be graded to drain toward catch basins with a minimum slope of 0.4%. Storm water shall not drain onto adjacent properties. *Drainage plan shall be reviewed with the Engineer prior to grading operations.*

d. Measurement and Payment. The completed work of Staking, Shaping, and Grading will be paid for at the contract unit price for the following contract item (pay item):

<u>Pay Item</u>	<u>Pay Unit</u>
Staking, Shaping, and Grading	LS
Staking, Shaping, and Grading	Sta