

Contract Documents and Specifications

**City of Dripping Springs
South Regional Wastewater
System
Hays County, Texas**

Howard Ranch Treated Effluent Fill Station

Prepared for:

**The City of Dripping Springs
P.O. Box 384
Dripping Springs, Texas 78620**

Prepared by:

**Burgess & Niple, Inc.
235 Ledge Stone Drive
Austin, Texas 78737
(512) 432-1000**

January 2025

TABLE OF CONTENTS

**CITY OF DRIPPING SPRINGS
SOUTH REGIONAL WASTEWATER SYSTEM**

HOWARD RANCH TREATED EFFLUENT FILL STATION

VOLUME 1 OF 2

DIVISION 0 – BIDDING AND CONTRACT DOCUMENTS

| Section No: | Description: | Number of Pages: |
|--------------------|---|-------------------------|
| | NOTICE TO BIDDERS | 2 |
| 00100 | INSTRUCTIONS TO BIDDERS | 8 |
| 00300 | BID FORM | 7 |
| | CONTRACTOR’S QUANTITY CERTIFICATION | 1 |
| | RESOLUTION OF CONTRACTOR | 1 |
| 00410 | BID BOND | 2 |
| | CONTRACTOR QUALIFICATIONS | 4 |
| | LIST OF PROPOSED SUBCONTRACTORS & VENDORS | 2 |
| 00500 | AGREEMENT | 8 |
| 00610 | PAYMENT BOND | 2 |
| 00620 | PERFORMANCE BOND | 2 |
| 00630 | WARRANTY BOND | 2 |
| 00700 | GENERAL CONDITIONS | 54 |
| 00800-1 | SUPPLEMENTAL CONDITIONS TO GENERAL CONDITIONS | 14 |
| 00800-2 | SUPPLEMENTAL CONDITIONS | 19 |

DIVISION 1 – GENERAL REQUIREMENTS

| Section No: | Description: | Number of Pages: |
|--------------------|---------------------------------------|-------------------------|
| 01000 | GENERAL REQUIREMENTS | 5 |
| 01300 | SUBMITTALS | 7 |
| 01600 | DELIVERY, STORAGE, AND HANDLING | 3 |
| 01730 | OPERATING AND MAINTENANCE DATA | 7 |

DIVISION 2 – SITE WORK

| Section No: | Description: | Number of Pages: |
|--------------------|---------------------|-------------------------|
| 02000 | SITE WORK | 5 |

DIVISION 9 – FINISHES

| Section No: | Description: | Number of Pages: |
|--------------------|--|-------------------------|
| 09900 | PAINTING AND PROTECTIVE COATINGS | 11 |

TABLE OF CONTENTS

EXHIBITS

SAMPLE NOTICE OF AWARD
SAMPLE NOTICE TO PROCEED
SAMPLE CERTIFICATE OF SUBSTANTIAL COMPLETION
SAMPLE WORK CHANGE DIRECTIVE FORM
SAMPLE CHANGE ORDER FORM
SAMPLE AFFIDAVIT OF BILLS PAID
SAMPLE CERTIFICATE OF FINAL COMPLETION

NOTICE TO BIDDERS

SCOPE OF WORK: The City of Dripping Springs, Texas will accept competitive sealed proposals for construction of the City of Dripping Springs South Regional Wastewater System Howard Ranch Treated Effluent Fill Station. The Project will include installing a 2” CLA-VAL altitude control valve, pipe reducer, and concrete utility vault into existing 2” and 4” treated effluent lines; and the installation of a 2” irrigation meter in a concrete utility vault. The Work to be performed includes furnishing all necessary supervision, machinery, insurance, materials, equipment, tools, and labor necessary for the design, fabrication, material delivery, erection and construction, painting, inspection, and testing to complete the Work.

RECEIPT OF BIDS: Sealed bids in envelopes are due at the Office of the Engineer: Burgess & Niple, Inc. located at 235 Ledge Stone Drive, Austin, Texas 78737, (512) 432-1000 no later than **2:00 p.m. on Thursday, February 13th, 2025**, at which time the bids for the Project Contract will be opened and read aloud. The OWNER reserves the right to waive all informalities and irregularities, and determine which Bids are most advantageous to the Project, and to award the Contract on this basis.

INFORMATION AND BIDDING DOCUMENTS: Hard copies and/or electronic copies of Bid Documents and Plans may be obtained from Burgess & Niple, Inc. by contacting Juhmanie Alexander at juhmanie.alexander@burgessniple.com or at 512-432-1000, during regular business hours: 7:30 a.m. to 5:30 p.m., Monday through Thursday, and 8:00 a.m. to 12:00 p.m., Fridays.

BONDS: Performance, payment, and warranty bonds shall each be issued in an amount equal to 100% of the Contract Amount as security for all the CONTRACTOR’s obligations under the Contract Documents.

INSURANCE REQUIREMENTS: Bidders shall maintain insurance in the types and amounts indicated the Contract Documents.

BID GUARANTY: All Bids must be accompanied by a Bid security made payable to Owner in an amount of five percent (5%) of Bidder's maximum Bid price and in the form of a cashier’s check made payable to the City of Dripping Springs, or a Bid Bond issued by a surety.

PRE-BID CONFERENCE: No pre-bid conference will be held.

CONTRACT SCHEDULE: The Work shall be substantially complete no later than **120** calendar days after the date when the Contract Times commence to run as provided in the General Conditions, and completed and ready for final payment in accordance with the General Conditions no later than **150** calendar days after the date when the Contract Times commence to run.

Substantially complete shall mean completing the improvements, and testing so that the planned improvements are in operation.

**SECTION 00100
INSTRUCTIONS TO BIDDERS**

The City of Dripping Springs (“Owner”) invites the submittal of responses to this “Request for Proposals” (RFP) from qualified Contractors (“Offerors” “Bidders” or “Respondents”) interested in providing construction services in accordance with Chapter 2269 of the Texas Government Code in connection with the construction of a wastewater project more specifically described in section 1.0 below.

1.0 SCOPE OF WORK

The City of Dripping Springs, Texas will accept competitive sealed proposals for construction of the City of Dripping Springs South Regional Wastewater System Howard Ranch Treated Effluent Fill Station. The Project will include installing a 2” CLA-VAL altitude control valve, pipe reducer, and concrete utility vault into existing 2” and 4” treated effluent lines; and the installation of a 2” irrigation meter in a concrete utility vault. The Work to be performed includes furnishing all necessary supervision, machinery, insurance, materials, equipment, tools, and labor necessary for the design, fabrication, material delivery, erection and construction, painting, inspection, and testing to complete the Work.

Work in this Contract is generally described by the Contract Documents; titled as follows:

**City of Dripping Springs
South Regional Wastewater System
Howard Ranch Treated Effluent Fill Station**

The City of Austin Standard Construction Specifications current at the time of bidding shall govern materials and methods used to do the work, and are made a part of this Contract. Whenever the term “City of Austin” is used in the City of Austin Specifications, it shall be construed to mean “OWNER, and or its designated representative.” Whenever the term “ENGINEER” is used in the City of Austin Specifications, it shall be construed to mean Burgess & Niple, Inc. Technical Specifications provided are intended to supplement the City Standard Specifications, not to replace them. Any discrepancies between the City Standard Specifications and the terms of this Contract shall be reported to the Engineer, who shall determine which specification shall govern.

2.0 SELECTION PROCESS

Selection of Contractor will follow the process set forth in subchapter D of chapter 2269 of the Texas Government Code.

From a review of the proposals received, Owner will evaluate and rank each proposal no later than forty-five (45) days following the opening of the bids.

The preferred Offeror then will negotiate with Owner on contract conditions. If a contract cannot be successfully negotiated with the Offeror of choice, in the opinion of

**SECTION 00100
INSTRUCTIONS TO BIDDERS**

the Owner, negotiations will proceed with the next highest ranked Offeror until a mutually agreed contract can be negotiated. Owner intends to use modified EJCDC forms for the Agreement between Owner and Contractor as well as the General Conditions of the Contract. The selected Offeror will have an opportunity to review and negotiate the terms of the Agreements prior to executing the contract documents.

3. EVALUATION CRITERIA

The criteria used to evaluate the RFP responses will include, but not be limited to, the following (items listed below are not listed in order of importance):

- A. **Qualifications of Contractor and Experience on Similar Projects.** Qualifications of firm in executing similar projects (emphasis on last five (5) years), as well as related municipal project experience, including completed and ongoing projects of the firm(s) and individuals who would be assigned to this Project. Resumes of individuals who would be assigned to this project, with emphasis on the Project Manager and Job Superintendent must be included with Proposals.
- B. **Experience on Public Projects.** Related project experience on non-wastewater projects with other public owners including municipalities, school districts, and other local governmental entities, as well as experience with local subcontractors and suppliers.
- C. **Available Resources to Complete Project.** This criterion would include personnel, resources and methodologies commonly used by your firm that may be applicable to the project categories, as well as experience of proposed subcontractors and suppliers. A list of all subcontractors and suppliers must be included with the Proposals describing the type of work to be performed and the percentage of work to be performed by each.
- D. **Corporate History and Stability.** This criterion includes the historical stability of the Offeror, its corporate structure and longevity, its history involving litigation or arbitration with owners and subcontractors, and a statement of any liquidated damages that have previously been withheld by public owner clients of the Offeror on projects in the last five (5) years.
- E. **Overall Responsiveness to the RFP.** Completeness of the requested Proposal contents.
- F. **References.** Letter of references from previous clients.
- G. **Cost.** This criterion includes the cost of all work, including any alternates, inclusive of all Offeror's general conditions and fees.

**SECTION 00100
INSTRUCTIONS TO BIDDERS**

| Item | Weighting |
|---|------------------|
| A. Qualifications of Contractor and Experience on Similar Projects | 15% |
| B. Experience on Public Projects | 10% |
| C. Available Resources to Complete Project | 15% |
| D. Corporate History and Stability | 5% |
| E. Overall Responsiveness to the RFP | 5% |
| F. References | 5% |
| G. Cost | 45% |

4.0 PREPARATION OF PROPOSAL

In preparing the Proposal, Offeror is to reference the definitions located in the General Conditions and Supplemental Conditions of this Proposal package. All blanks on the Proposal Form provided shall be completed by printing in ink or by typewriter and the Proposal signed. A price shall be indicated for each item, alternate item, and optional item listed therein, or the words "No Proposal," "No Change," or "Not Applicable" entered.

The Proposal shall be executed with the complete and correct name of the individual, partnership, firm, corporation, or other legal entity. A copy of Articles of Partnership or Incorporation and resolution, or corporate board minutes empowering signatory to bind Offeror, attested by an officer of Offeror and affixed with the seal of the corporation, shall be submitted with Proposal.

Any corrections to the Proposal shall be initialed by person(s) signing Proposal. Proposals tendered after due date and time designated in these Instructions to Bidders will not be accepted. Alternate proposals will not be considered unless called for. No oral, telegraphic or telephone proposals or modifications will be considered.

5.0 CONTRACT DOCUMENTS AND SITE

Before submitting a Proposal, the Offeror shall carefully examine the Contract Documents, Plans and Specifications, site of the proposed Work, and other conditions that may affect the performance of the Work. Therefore, it will be understood that the Offeror has investigated and is satisfied as to the conditions to be encountered; the character, quality, and quantities of Work to be performed and materials to be furnished, and the requirements of the Contract Specifications and Drawings. Submission of a Proposal shall be conclusive evidence that the Offeror has complied with these requirements.

Should an Offeror find discrepancies in, or omissions from the Plans, Specifications or other Contract Documents, or should he be in doubt as to their meaning, he should at once notify the Engineer in order that a written Addendum may be sent to all Bidders. Interpretations or clarifications considered necessary by Engineer in response to such questions will be issued by Addenda mailed or delivered to all parties recorded by

SECTION 00100
INSTRUCTIONS TO BIDDERS

Engineer as having received the Bidding Documents (5) days before the opening of Proposals. The proposal as submitted by the Contractor will be so constructed as to include any Addenda if such are issued by the Engineer twenty-four (24) hours before the opening of Proposals. Only questions answered by Addenda will be binding. Oral and other interpretations or clarifications will be without legal effect.

If any conflicts, errors, ambiguities, or discrepancies are discovered in or between any of the Bid Documents, Contract Documents, and/or related documents, and if said conflicts, errors, ambiguities, or discrepancies have not been resolved by Engineer by an Addenda, as set forth above, the Offeror shall include in the Proposal the greater quantity or better quality of work, or compliance with the more stringent requirement resulting in a greater cost. Such greater cost shall be included in the Proposal.

6.0 PROPOSAL GUARANTY

All Bids must be accompanied by Bid Security made payable to OWNER in an amount of five percent (5%) of Offeror's maximum price and in the form of a cashier's check made payable to The City of Dripping Springs or a Bond (on the attached Bid Bond form) issued by a surety meeting the requirements of paragraphs 5.01 and 5.02 of the General Conditions.

The Bid security of the Successful Offeror will be retained until such Offeror has executed the Contract Documents, furnished the required contract security and met the other conditions of the Notice of Award, whereupon the Bid Security will be returned. If the Successful Offeror fails to execute and deliver the Contract Documents and furnish the required contract security within 30 days after Owner releases its rankings of Offerors, Bid Security of that Offeror will be forfeited. If the Owner terminates the negotiations within the 30 day period, Bid Security of that Offeror will be returned. The Proposal Security of other Bidders whom OWNER believes to have a reasonable chance of receiving the award may be retained by OWNER until the earlier of 30 days after notification of selection of that Offeror or 90 days after the release of rankings, whereupon Proposal Security furnished by such Bidders will be returned.

Proposal Security of other Bidders whom OWNER believes do not have a reasonable chance of receiving the award will be returned within 10 days after the release of rankings.

7.0 PERFORMANCE, PAYMENT, AND WARRANTY BONDS

Performance, payment, and warranty bonds shall each be issued in an amount equal to 100% of the Contract Amount as security for all the CONTRACTOR's obligations under the Contract Documents. Performance, payment, and warranty bonds (on bond forms provided with the Contract Documents or otherwise acceptable to Owner) shall be issued by a solvent company approved by OWNER and authorized to do business in the State of Texas and shall meet any other requirements by law or by OWNER pursuant to applicable law.

**SECTION 00100
INSTRUCTIONS TO BIDDERS**

8.0 INSURANCE REQUIREMENTS

CONTRACTOR will be required to maintain insurance in the types and amounts required by the Insurance Rider to the General Conditions. Such Insurance Rider may be requested by Offerors prior to the opening of proposals if done so in writing and directed to the Engineer.

9.0 BASIS OF PROPOSAL AND CONSIDERATION OF PROPOSAL AMOUNT

Bidders shall submit a Proposal as described in paragraph 3 above. Submission of a Proposal on any section signifies Offeror's willingness to enter into a Contract for that section alone at the price(s) offered.

For the purpose of Proposal Evaluation, the Offeror should include with the Bid Form herein, sufficient information that in Offeror's determination will provide sufficient information for the Owner to evaluate it in accordance with the Selection Criteria. OWNER reserves the right to reject any or all Bids, or to waive any informalities and irregularities. To meet the overall Project budget and schedule, OWNER also reserves right to delete separate Proposal Items submitted for execution of a Contract, to consider Project completion schedule in determining the highest ranked Offeror, and/or to award each phase of the work to separate contractors. The OWNER shall also reserve the right to waive informalities, technical defects, to reject any and all bids, and to accept the Proposal most advantageous to the Project.

If there are discrepancies in the Total Proposal amount written on the Proposal Form and the sum of the subtotals on the Proposal Form, the written Total Proposal amount shall govern.

10.0 SUBMISSION OF PROPOSAL

Proposal shall be enclosed in an opaque sealed envelope plainly marked with the Project Title, the name and address of Offeror, and shall be accompanied by the Proposal Security and other required documents. If a Proposal is sent by mail or other delivery system, the sealed envelope containing the Proposal shall be enclosed in a separate envelope plainly marked on the outside with the notation "PROPOSAL ENCLOSED." Multiple envelopes/packages submitted shall be marked with the envelope number and the total number of envelopes for the Proposal (i.e. Envelope 1 of 2, for two envelopes).

Bids shall be addressed and mailed, or hand delivered to:

Burgess & Niple, Inc.
235 Ledge Stone
Austin, Texas 78737
(512) 432-1000
512-432-1015 (fax)

**SECTION 00100
INSTRUCTIONS TO BIDDERS**

ALL BIDS ARE DUE BY 2:00 P.M. ON THE 20th DAY OF FEBURARY, 2025 AND WILL BE OPENED AND READ ALOUD AT THAT LOCATION AND TIME.

11.0 WITHDRAWAL OF PROPOSAL

A Proposal may be withdrawn by an Offeror, provided an authorized individual of the Offeror submits a written request to withdraw the Proposal before the time set for opening the Bids.

12.0 REJECTION OF BIDS

The following may be cause to reject a Proposal:

- (a) Bids containing omissions, alterations of form, qualifications or conditions not called for by OWNER, incomplete Bids, or Bids which are not accompanied by an acceptable Proposal Guaranty, will be considered in noncompliance and may be rejected. In any case of ambiguity or lack of clarity with the Proposal the OWNER reserves right to determine the most advantageous Proposal or to reject the Proposal.
- (b) Unreasonable or unbalanced Unit Proposal Prices.
- (c) More than one Proposal for same Work from an individual, firm, partnership or corporation.
- (d) Evidence of collusion among Bidders.

OWNER may conduct such investigations as OWNER deems necessary to establish the responsibility, qualifications, and financial ability of Bidders, proposed Subcontractors, Suppliers, individuals, or entities to perform the Work in accordance with the Contract Documents during or after the forty-five (45) day ranking period.

13.0 AWARD AND EXECUTION OF CONTRACT

Award of Contract will be to the highest ranked Offeror in accordance with the provision of this Section 00100. However, OWNER reserves the right to reject any or all Proposals, including without limitation, nonconforming, non-responsive, unbalanced, or conditional Proposals. OWNER further reserves the right to reject the Proposal of any Offeror whom it finds, after reasonable inquiry and evaluation, to be non-responsible. The OWNER also reserves the right to waive informalities, to reject any and all Proposals, and to accept the Proposal most advantageous to the public interest. Further, the OWNER also reserves the right to waive all formalities not involving price, time, or changes in the Work and to negotiate contract terms with the Successful Offeror.

Award of Contract will occur within the period identified herein, unless mutually agreed between the parties. Contract will not be binding on OWNER until it has been executed

SECTION 00100
INSTRUCTIONS TO BIDDERS

by both parties. OWNER will process the Contract expeditiously; however, OWNER will not be liable for any delays prior to the award or execution of the Contract.

14.0 CONTRACT SCHEDULE

The Work shall be substantially complete no later than **120** calendar days after the date when the Contract Times commence to run, and finally completed and ready for final payment no later than **150** calendar days after the date when the Contract Times commence to run.

Substantially complete shall mean completing the improvements, including the passage of all testing and completion of any necessary adjustments or corrections required by failure to pass any required tests so that the planned improvements are in operation.

Along with the Proposal, the Offeror shall provide a proposed time line schedule (measured in days) indicating milestones for this Contract for each contract duration. The schedule shall begin with award and include time for developing shop drawing, materials purchase and delivery, mobilization to the site, site work, installing of all major equipment, testing, and startup. This schedule will be included in the Contract documents.

15.0 SUBCONTRACTORS AND SUPPLIERS

Each Offeror shall submit with its Proposal names of proposed subcontractors with a description of work to be performed and/or equipment/materials to be supplied, with contact names, phone numbers, and addresses for those to be used on this Project, and a proposed timeline schedule.

16.0 SUBMITTALS TO BE INCLUDED WITH BIDS

Each Offeror shall submit the following with its Proposal:

- Completed Bid Form;
- Required Proposal Guarantee on Proposal Bond Form Provided, or a cashier's check made payable to The City of Dripping Springs;
- Names of proposed subcontractors, suppliers, and manufacturers with a description of work to be performed and/or equipment/materials to be supplied, with contact names, phone numbers, and addresses for those to be used on this Project;
- Resumes of individuals who would be assigned to this project, with emphasis on the Project Manager and Job Superintendent must be included with Proposals
- Estimated Project Schedule;
- Resolution of Contractor
- Proposed locations of laydown/equipment storage and temporary offices to be used during this Contract;
- A listing of all labor, materials and equipment and detailed description of the procedure for completing the listed plant shutdowns and bypasses;

SECTION 00100
INSTRUCTIONS TO BIDDERS

- Contractor Qualifications Form and information listed in the Section 3. EVALUATION CRITERIA.
- Executed Contractor's Quantity Certification

Bidders may be requested to respond to a request for information (RFI) from the Engineer for clarification or interpretation of items listed for the purpose of evaluating Bids.

17.0 PRE-PROPOSAL CONFERENCE

There will not be a pre-Proposal conference held for this project

18.0 SITE AND OTHER AREAS

The Site is identified in the Bidding Documents. All additional lands and access thereto required for temporary construction facilities, construction equipment, or storage of materials and equipment to be incorporated in the Work are to be obtained and paid for by CONTRACTOR.

The Site is identified in the Bidding Documents. All additional lands and access thereto required for temporary construction facilities, construction equipment, or storage of materials and equipment to be incorporated in the Work are to be obtained and paid for by CONTRACTOR. Easements for permanent structures or permanent changes in existing facilities are to be obtained and paid for by OWNER unless otherwise provided in the Bidding Documents. Along with the Proposal, Offeror shall identify the proposed locations of laydown/equipment storage and temporary offices to be used during this Contract if different from that identified in the Project Documents.

**SECTION 00300
BID FORM**

**CITY OF DRIPPING SPRINGS
SOUTH REGIONAL WASTEWATER SYSTEM
HOWARD RANCH TREATED EFFLUENT FILL STATION**

PROJECT IDENTIFICATION:

This project is for the connection of the Howard Ranch Treated Effluent Fill Station to the existing 12" TE line from the City of Dripping Springs South Regional Wastewater System.

SCOPE OF WORK:

The City of Dripping Springs, Texas will accept competitive sealed proposals for construction of the City of Dripping Springs South Regional Wastewater System Howard Ranch Treated Effluent Fill Station. The Project will include installing a 2" CLA-VAL altitude control valve, pipe reducer, and concrete utility vault into existing 2" and 4" treated effluent lines; and the installation of a 2" irrigation meter in a concrete utility vault. The Work to be performed includes furnishing all necessary supervision, machinery, insurance, materials, equipment, tools, and labor necessary for the design, fabrication, material delivery, erection and construction, painting, inspection, and testing to complete the Work..

Work in this Contract is generally described by the Contract Documents; titled as follows:

**City of Dripping Springs
South Regional Wastewater System
Howard Ranch Treated Effluent Fill Station**

The City of Austin Standard Construction Specifications current at the time of bidding shall govern materials and methods used to do the work and are made a part of this Contract. Whenever the term "City of Austin" is used in the City of Austin Specifications, it shall be construed to mean "OWNER, and or its designated representative." Whenever the term "ENGINEER" is used in the City of Austin Specifications, it shall be construed to mean Burgess & Niple, Inc. Technical Specifications provided are intended to supplement the City Standard Specifications, not to replace them. Any discrepancies between the City Standard Specifications and the terms of this Contract shall be reported to the Engineer, who shall determine which specification shall govern.

CONTRACT IDENTIFICATION:

Project Owner: **City of Dripping Springs**

Contract: **Howard Ranch Treated Effluent Fill Station**

THIS BID IS SUBMITTED TO:

The Offices of Burgess & Niple, Inc.
235 Ledge Stone Drive
Austin, Texas 78737
512-432-1000 office
512-432-1015 fax

1.01 In response to the OWNER's request for Bids, the undersigned Bidder proposes and agrees, if this Bid is accepted, to enter into an Agreement with OWNER in the form included in the Bidding Documents to perform all Work as specified or indicated in the Bidding Documents for the prices and within the times indicated in this Bid and in accordance with the other terms and conditions of the Bidding Documents.

2.01 Bidder accepts all of the terms and conditions of the Advertisement or Invitation to Bid and Instructions to Bidders, including without limitation those dealing with the disposition of Bid Security. The Bid will remain subject to acceptance for 90 days after the Bid date, or for such longer period of time that Bidder may agree to in writing upon request of OWNER.

3.01 In submitting this Bid, Bidder represents, as set forth in the Agreement, that:

A. Bidder has examined and carefully studied the Bidding Documents, the other related data identified in the Bidding Documents, and the following Addenda, receipt of all which is hereby acknowledged (List Addenda by Number and Date).

| Addendum No. | Addendum Date |
|--------------|---------------|
| _____ | _____ |
| _____ | _____ |
| _____ | _____ |

B. Bidder has visited the Site and become familiar with and is satisfied as to the general, local and Site conditions that may affect cost, progress, and performance of the Work.

C. Bidder is familiar with and is satisfied as to all federal, state and local Laws and Regulations that may affect cost, progress and performance of the Work.

D. Bidder has carefully studied all reports of explorations and tests of subsurface conditions at or contiguous to the Site and all drawings of physical conditions in or relating to existing surface or subsurface structures at or contiguous to the Site (except Underground Facilities) which have been identified in the Supplementary Conditions as provided in paragraph 4.02 of the General Conditions.

E. Bidder has obtained and carefully studied (or assumes responsibility for having done so) all additional or supplementary examinations, investigations, explorations, tests, studies and data concerning conditions (surface, subsurface, and Underground Facilities) at or contiguous to the Site which may affect cost, progress, or performance of the Work or which relate to any aspect of the means, methods, techniques, sequences, and procedures of construction to be employed by Bidder, including applying the specific means, methods, techniques, sequences, and procedures of construction expressly required by the Bidding Documents to be employed by Bidder, and safety precautions and programs incident thereto.

F. Bidder does not consider that any further examinations, investigations, explorations, tests, studies, or data are necessary for the determination of this Bid for performance of the Work at the price bid and within the times and in accordance with the other terms and conditions of the Bidding Documents.

G. Bidder is aware of the general nature of work to be performed by OWNER and others at the Site that relates to the Work as indicated in the Bidding Documents.

H. Bidder has correlated the information known to Bidder, information and observations obtained from visits to the Site, reports and drawings identified in the Bidding Documents, and all additional examinations, investigations, explorations, tests, studies, and data with the Bidding Documents.

I. Bidder has given Engineer written notice of all conflicts, errors, ambiguities, or discrepancies that Bidder has discovered in the Bidding Documents, and the written resolution thereof by Engineer is acceptable to Bidder.

J. Where conflicts, errors, ambiguities or discrepancies have been discovered in or between Contract Documents and/or other related documents, and where said conflicts, etc., have not been resolved through the interpretations or clarifications by Engineer as described in the Instructions to Bidders, because of insufficient time or otherwise, Bidder has included in the Bid the greater quantity or better quality of Work, or compliance with the more stringent requirement resulting in a greater cost.

K. The Bidding Documents are generally sufficient to indicate and convey understanding of all terms and conditions for the performance of the Work for which this Bid is submitted.

4.01 Bidder further represents that this Bid is genuine and not made in the interest of or

on behalf of any undisclosed individual or entity and is not submitted in conformity with any agreement or rules of any group, association, organization or corporation; Bidder has not directly or indirectly induced or solicited any other Bidder to submit a false or sham Bid; Bidder has not solicited or induced any individual or entity to refrain from bidding; and Bidder has not sought by collusion to obtain for itself any advantage over any other Bidder or over OWNER.

5.01 Bidder will complete the Work in accordance with the Contract Documents for the price(s) shown on the following Bid Form. The Bid Form will also serve as a schedule of values for the Work to be performed.

There are no cash allowances for this Contract as described in paragraph 11.02 of the General Conditions.

| Bid Items | | Unit | Quantity | Unit Price | Subtotal |
|---|-------------------------------------|------|----------|------------|----------|
| A. General | | | | | |
| 1. | Mobilization | LS | 1 | \$ | \$ |
| 2. | Stabilized Construction Entrance | EA | 1 | \$ | \$ |
| 3. | Silt Fence | LF | 40 | \$ | \$ |
| 4. | Restoration and Revegetation | SY | 76 | \$ | \$ |
| B. Treated Effluent Improvements | | | | | |
| 1. | 4" Treated Effluent Line Connection | LS | 1 | \$ | \$ |
| 2. | 2" Treated Effluent Line Connection | LS | 1 | \$ | \$ |
| 3. | 2" CLA-VAL Altitude Control Valve | EA | 1 | \$ | \$ |
| 4. | 2" Irrigation Meter | EA | 1 | \$ | \$ |
| 5. | 5' x 3'-8" Concrete Vault | EA | 2 | \$ | \$ |
| 6. | 4" x 2" Reducer | EA | 1 | \$ | \$ |
| 7. | Trench Saftey | LF | 44 | \$ | \$ |
| 8. | 2" Gate Valve | EA | 2 | \$ | \$ |
| TOTAL BASE BID | | | | \$ | |

BID ITEM NOTES:

- Mobilization shall not exceed 5% of the Contract Amount (Section 0100)
- Contractor is responsible for verifying all quantities provided by engineer. No separate payment will be made if a quantity is found to differ between bid form and plan set.
- Soil import and export shall be included in related bid items, no separate cost.
- If rock is encountered during street excavation and street excavation, subgrade preparation, and/or base depths and/or quantities are reduced as a result, those costs will be prorated and deducted with a change order during construction.

6.01 Bidder agrees that the Work shall be **substantially complete no later than 330 calendar days**. The Contract Times commence to run as provided in paragraph 2.03 of the General Conditions. The Work shall be completed and ready for final payment in accordance with paragraph 14.07.B of the General Conditions within a period of **365 calendar days** after the date when the Contract Times commence to run.

6.02 Bidder accepts the provisions of the Agreement as to liquidated damages in the event of failure to complete the Work within the times specified above, which shall be stated in the Agreement.

7.01 The following documents are attached to and made a condition of this Bid:

Each Bidder shall submit the following with its Bid:

- A. Completed Bid Form;
- B. Required Proposal Guarantee on Proposal Bond Form Provided, or a cashier's check made payable to The City of Dripping Springs;
- C. Names of proposed subcontractors, suppliers, and manufacturers with a description of work to be performed and/or equipment/materials to be supplied, with contact names, phone numbers, and addresses for those to be used on this Project;
- D. Resumes of individuals who would be assigned to this project, with emphasis on the Project Manager and Job Superintendent must be included with Proposals
- E. Estimated Project Schedule;
- F. Resolution of Contractor
- G. Proposed locations of laydown/equipment storage and temporary offices to be used during this Contract;
- H. A listing of all labor, materials and equipment and detailed description of the procedure for completing the listed plant shutdowns and bypasses;
- I. Contractor Qualifications Form and information listed in the Section 3. EVALUATION CRITERIA.
- J. Executed Contractor's Quantity Certification

8.01 The terms used in this Bid with initial capital letters have the meanings indicated in the Instructions to Bidders, the General Conditions, and the Supplementary Conditions.

SUBMITTED on _____, 202_

State Contractor License No. _____

If Bidder is:

An Individual

Name (typed or printed): _____

By: _____ (SEAL)

(Individual's signature)

Doing business as: _____

Business address: _____

Phone No.: _____ FAX No.: _____

A Partnership

Partnership Name: _____

By: _____ (SEAL)
(Signature of general partner -- attach evidence of authority to sign)

Name (typed or printed): _____

Business address: _____

Phone No.: _____ FAX No.: _____

A Corporation

Corporation Name: _____

State of Incorporation Name: _____

Type (General Business, Professional, Service, Limited Liability): _____

By: _____ (SEAL)
(Signature -- attach evidence of authority to sign)

Name (typed or printed): _____

Title: _____

(CORPORATE SEAL)

Attest: _____
(Signature of Corporate Secretary)

Business address: _____

Phone No.: _____ FAX No.: _____

Date of Qualification to do business is: _____

A Joint Venture

Joint Venturer Name: _____

By: _____
(Signature of joint venture partner -- attach evidence of authority to sign)

Name (typed or printed): _____

Title: _____

Business address: _____

Phone No.: _____ FAX No.: _____

Joint Venturer Name: _____

By: _____
(Signature -- attach evidence of authority to sign)

Name (typed or printed): _____

Title: _____

Business address: _____

Phone No.: _____ FAX No.: _____

Phone and FAX Number, and Address for receipt of official communications:

(Each joint venturer must sign. The manner of signing for each individual, partnership, and corporation that is a party to the joint venture should be in the manner indicated above.)

CONTRACTOR’S QUANTITY CERTIFICATION

I hereby certify that _____ (Name of Bidder/Corporation), has carefully examined the Bidding Documents, Plans, site of the proposed Work, and other conditions that may affect the performance of the Work, and have verified and agree with Bid Form Quantities for the Construction of Water, Wastewater, and Street and Drainage Improvements for Howard Ranch Treated Effluent Fill Station

I also hereby certify that _____ (Name of Bidder/Corporation), has investigated and is satisfied with the conditions to be encountered; the character, quality and quantities of Work to be performed and materials to be furnished and the requirements of the Bidding Documents, Contract Documents, and Construction Plans, and that any conflicts, errors, ambiguities, or discrepancies that were discovered in or between any of the Bidding Documents, Contract Documents, Construction Plans, and/or related documents, and if said conflicts, errors, ambiguities, or discrepancies have not been resolved by Engineer by an Addenda, the greater quantity or better quality of work, or compliance with the more stringent requirement resulting in a greater cost are included in the Bid.

Signature

Name

Date

SUBSCRIBED AND SWORN BEFORE ME THIS _____ day of _____, 20____ to certify which witness by my hand and seal of office.

Signature of Notary

**SECTION 00510
RESOLUTION OF CONTRACTOR**

RESOLUTION
of

(CONTRACTOR)

I hereby certify that it was RESOLVED by a quorum of the directors of _____ (Name of Corporation), meeting on the _____ day of _____, 20__ that _____ (Name), _____ (Title), be, and hereby is, authorized to execute all documents necessary to the transaction of business in the State of Texas on behalf of the said _____ (Name of Corporation), and

That the above resolution was unanimously ratified by the Board of Directors at said meeting and that the resolution has not been rescinded and is now in full force and effect; and

In authentication of the adoption of this resolution, I subscribe my name and affix the seal of the corporation this _____ day of _____, 20__.

(Secretary)

(Seal)

**SECTION 00410
BID BOND**

BIDDER (Name and Address):

SURETY (Name and Address of Principal Place of Business):

OWNER (Name and Address):

BID

BID DUE DATE: _____

PROJECT (Brief Description Including Location):

BOND

BOND NUMBER: _____

DATE: (Not later than Bid due date): _____

PENAL SUM: _____

(Words)

(Figures)

IN WITNESS WHEREOF, Surety and Bidder, intending to be legally bound hereby, subject to the terms printed on the reverse side hereof, do each cause this Bid Bond to be duly executed on its behalf by its authorized officer, agent, or representative.

BIDDER

SURETY

(Seal)
Bidder's Name and Corporate Seal

(Seal)
Surety's Name and Corporate Seal

By: _____
Signature and Title

By: _____
Signature and Title
(Attach Power of Attorney)

Attest _____
Signature and Title

Attest _____
Signature and Title

- Note:
- (1) Above addresses are to be used for giving required notice.
 - (2) Any singular reference to Bidder, Surety, OWNER or other party shall be considered plural where applicable.

1. Bidder and Surety, jointly and severally, bind themselves, their heirs, executors, administrators, successors and assigns to pay to OWNER upon default of Bidder the penal sum set forth on the face of this Bond.
2. Default of Bidder shall occur upon the failure of Bidder to deliver within the time required by the Bidding Documents (or any extension thereof agreed to in writing by OWNER) the executed Agreement required by the Bidding Documents and any performance and payment Bonds required by the Bidding Documents.
3. This obligation shall be null and void if:
 - 3.1. OWNER accepts Bidder's Bid and Bidder delivers within the time required by the Bidding Documents (or any extension thereof agreed to in writing by OWNER) the executed Agreement required by the Bidding Documents and any performance and payment Bonds required by the Bidding Documents, or
 - 3.2. All Bids are rejected by OWNER, or
 - 3.3. OWNER fails to issue a Notice of Award to Bidder within the time specified in the Bidding Documents (or any extension thereof agreed to in writing by Bidder and, if applicable, consented to by Surety when required by paragraph 5 hereof).
4. Payment under this Bond will be due and payable upon default by Bidder and within 30 calendar days after receipt by Bidder and Surety of written notice of default from OWNER, which notice will be given with reasonable promptness, identifying this Bond and the Project and including a statement of the amount due.
5. Surety waives notice of and any and all defenses based on or arising out of any time extension to issue Notice of Award agreed to in writing by OWNER and Bidder, provided that the total time for issuing Notice of Award including extensions shall not in the aggregate exceed 120 days from Bid due date without Surety's written consent.
6. No suit or action shall be commenced under this Bond prior to 30 calendar days after the notice of default required in paragraph 4 above is received by Bidder and Surety and in no case later than one year after Bid due date.
7. Any suit or action under this Bond shall be commenced only in a court of competent jurisdiction located in the state in which the Project is located.
8. Notices required hereunder shall be in writing and sent to Bidder and Surety at their respective addresses shown on the face of this Bond. Such notices may be sent by personal delivery, commercial courier or by United States Registered or Certified Mail, return receipt requested, postage pre-paid, and shall be deemed to be effective upon receipt by the party concerned.
9. Surety shall cause to be attached to this Bond a current and effective Power or Attorney evidencing the authority of the officer, agent or representative who executed this Bond on behalf of Surety to execute, seal and deliver such Bond and bind the Surety thereby.
10. This Bond is intended to conform to all applicable statutory requirements. Any applicable requirement of any applicable statute that has been omitted from this Bond shall be deemed to be included herein as if set forth at length. If any provision of this Bond conflicts with any applicable statute, then the provision of said statute shall govern and the remainder of this Bond that is not in conflict therewith shall continue in full force and effect.
11. The term "Bid" as used herein includes a Bid, offer, or proposal as applicable.

CONTRACTOR'S QUALIFICATION

The Owner desires to contract with Contractor which is fully qualified and experienced to perform the work on this project.

The bidder is required to supply the following information to the Owner along with the Bid. Additional sheets may be attached if necessary.

(1) Name _____

(2) Address _____
 City _____ STATE _____ ZIP CODE _____

(3) Phone Number _____ Fax Number _____

(4) Type of Firm:
 () Individual () Partnership () Corporation

(5) Corporation organized under the laws of the State of: _____

(6) List the Names and addresses of all members of the firm or names and titles of all officers of the corporation.

| | |
|--------|-----------|
| (Name) | (Address) |
|--------|-----------|

| | |
|--------|-----------|
| (Name) | (Address) |
|--------|-----------|

| | |
|--------|-----------|
| (Name) | (Address) |
|--------|-----------|

| | |
|--------|-----------|
| (Name) | (Address) |
|--------|-----------|

(7) Number of years experience under present firm name: _____

(8) Number of years experience in construction work of the type called for in this contract as: A general contractor _____; A subcontractor _____.

- (9) List at least three (3) similar projects in cost and nature completed as of recent date:
List most recent first.

| Contract Amount | Class of Work | Date Completed | Owner's and Design Engineer's Name, Address & Telephone |
|------------------------|----------------------|-----------------------|--|
| \$ _____ | _____ | _____ | _____ _____ _____ |
| \$ _____ | _____ | _____ | _____ _____ _____ |
| \$ _____ | _____ | _____ | _____ _____ _____ |

- (10) Has your firm ever defaulted on a contract? _____ If so, where and why? _____

- (11) Are you at present in any litigation or lawsuits involving construction work of any type?
_____ Yes _____ No. If yes, please explain: _____

- (12) Attach a list of your major equipment owned that is available for this contract.

| Quantity | Description, Size, Capacity, etc. | Condition | Years in Service | Present Location |
|-----------------|--|------------------|-------------------------|-------------------------|
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |

(13) Attach a list of all current work under contract and/or under construction.

| Contract Amount | Type of Work | Percent Complete | Owner's Name, Address & Telephone |
|-----------------|--------------|------------------|-----------------------------------|
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |

(14) List the name and address of each subcontractor who will perform work in or about the work or improvements in excess of one-half (1/2) of one (1%) percent of the total bid price and indicate what part of the work will be done by each subcontractor:

| Name | Address | Portion of Work Sublet |
|-------|---------|------------------------|
| _____ | _____ | _____ |
| _____ | _____ | _____ |
| _____ | _____ | _____ |
| _____ | _____ | _____ |
| _____ | _____ | _____ |
| _____ | _____ | _____ |
| _____ | _____ | _____ |
| _____ | _____ | _____ |
| _____ | _____ | _____ |

(15) List all jobs your company or any principal in your company performed in which a trench failure injury occurred:

| Name of Job | Location | Date |
|-------------|----------|-------|
| _____ | _____ | _____ |
| _____ | _____ | _____ |
| _____ | _____ | _____ |

(16) Describe mechanic's or material-men's liens that have been filed against the company within the last three (3) years and the status of their disposition.

The signatory of this questionnaire guarantees the truth and accuracy of all statements herein made and all answers herein expressed.

Dated this _____ day of _____, 20_____.

By: _____
Title: _____

State of _____

County of _____

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

Notary Public _____

My Commission
Expires: _____

SECTION 00500
STANDARD FORM OF AGREEMENT
BETWEEN OWNER AND CONTRACTOR

This **AGREEMENT** is by and between **The City of Dripping Springs** (hereinafter called OWNER) and (hereinafter called CONTRACTOR).

OWNER and CONTRACTOR, in consideration of the mutual covenants hereinafter set forth, agree as follows:

ARTICLE 1 - WORK

1.01 CONTRACTOR shall complete all Work as specified or indicated in the Contract Documents.

This Project is for construction of the City of Dripping Springs South Regional Wastewater System Howard Ranch Treated Effluent Fill Station. The Project will include tapping into the existing 2 inch and 4inch treated effluent line and the installation of installing a CLA-VAL treated effluent control valve in a concrete utility vault. The Work to be performed includes furnishing all necessary supervision, machinery, insurance, materials, equipment, tools, and labor necessary for the design, fabrication, material delivery, erection and construction, painting, inspection, and testing to complete the Work.

The City of Austin Standard Construction Specifications current at the time of bidding shall govern materials and methods used to do the work and are made a part of this Contract. Whenever the term "City of Austin" is used in the City of Austin Specifications, it shall be construed to mean "OWNER, and or its designated representative." Whenever the term "ENGINEER" is used in the City of Austin Specifications, it shall be construed to mean Burgess & Niple, Inc. Technical Specifications provided are intended to supplement the City Standard Specifications, not to replace them. Any discrepancies between the City Standard Specifications and the terms of this Contract shall be reported to the Engineer, who shall determine which specification shall govern.

ARTICLE 2 - THE PROJECT

2.01 This project is for construction of City of Dripping Springs South Regional Wastewater System Howard Ranch Treated Effluent Fill Station.

ARTICLE 3 - ENGINEER

3.01 The Project has been designed by Burgess & Niple, Inc., 235 Ledge Stone, Austin, TX, 78737, 512/432-1000 (phone), 512/432-1015 (fax) who is hereinafter called ENGINEER and who is to act as OWNER's representative, assume all duties and responsibilities, and have the rights and authority assigned to ENGINEER in the Contract Documents in connection with the completion of the Work in accordance with the Contract Documents.

SECTION 00500
STANDARD FORM OF AGREEMENT
BETWEEN OWNER AND CONTRACTOR

ARTICLE 4- CONTRACT TIMES

4.01 Time of the Essence

A. All time limits for Milestones, if any, Substantial Completion, and completion and readiness for final payment as stated in the Contract Documents are of the essence of the Contract.

4.02 Days to Achieve Substantial Completion and Final Payment

A. The Work shall be substantially complete no later than **200** calendar days after the date when the Contract Times commence to run as provided in paragraph 2.03 of the General Conditions and completed and ready for final payment in accordance with paragraph 14.07.B of the General Conditions no later than **230** calendar days after the date when the Contract Times commence to run.

Substantially complete shall mean completing the improvements, and testing so that the planned improvements are in operation.

4.03 Liquidated Damages

A. CONTRACTOR and OWNER recognize that time is of the essence of this Agreement and that OWNER will suffer financial loss if the Work is not completed within the times specified in paragraph 4.02 above, plus any extensions thereof allowed in accordance with Article 12 of the General Conditions. The parties also recognize the delays, expense, and difficulties involved in proving in a legal or arbitration proceeding the actual loss suffered by OWNER if the Work is not completed on time. Accordingly, instead of requiring any such proof, OWNER and CONTRACTOR agree that as liquidated damages for delay (but not as a penalty), CONTRACTOR shall pay OWNER **\$1000.00** for each day that expires after the time specified in paragraph 4.02 for Substantial Completion until the Work is substantially complete. After Substantial Completion, if CONTRACTOR shall neglect, refuse, or fail to complete the remaining Work within the Contract Time or any proper extension thereof granted by OWNER, CONTRACTOR shall pay OWNER the same amount specified for liquidated damages for each day that expires after the time specified in paragraph 4.02 for completion and readiness for final payment until the Work is completed and ready for final payment.

ARTICLE 5 - CONTRACT PRICE

5.01 OWNER shall pay CONTRACTOR for completion of the Work in accordance with the Contract Documents an amount in current funds equal to the sum of the amounts determined pursuant to paragraph 5.01.A below:

- A. For all Work, an amount equal to the sum of the established unit price for each identified item times the estimated quantity of that item as indicated in the Bid Form:

SECTION 00500
STANDARD FORM OF AGREEMENT
BETWEEN OWNER AND CONTRACTOR

The Contract amount is:

There are no cash allowances for this Contract as described in paragraph 11.02 of the General Conditions.

ARTICLE 6 - PAYMENT PROCEDURES

6.01 Submittal and Processing of Payments

A. CONTRACTOR shall submit Applications for Payment in accordance with Article 14 of the General Conditions. Applications for Payment will be processed by Engineer as provided in the General Conditions.

6.02 Progress Payments; Retainage

A. OWNER shall make partial payments as the Work progresses on account of the Contract Price on the basis of CONTRACTOR's Applications for Payment on or about the 30th day of each month during performance of the Work as provided in paragraphs 6.02.A.1 and 6.02.A.2 below. All such payments will be measured by the schedule of values established in paragraph 2.07.A of the General Conditions:

1. Prior to Final Completion and acceptance of the Work, progress payments will be made in an amount equal to the percentage indicated below but, in each case, less the aggregate of payments previously made and less such amounts as Engineer may determine or OWNER may withhold, in accordance with paragraph 14.02 of the General Conditions:

- a. 95% of Work completed (with the balance being retainage); and
- b. 95% of the cost of materials and equipment not incorporated in the Work (but delivered, suitably stored and accompanied by documentation satisfactory to the OWNER as provided in paragraph 14.2 (with the balance being retainage).

6.03 Final Payment

Upon final completion and acceptance of the Work in accordance with paragraph 14.07 of the General Conditions, OWNER shall pay the remainder of the Contract Price.

SECTION 00500
STANDARD FORM OF AGREEMENT
BETWEEN OWNER AND CONTRACTOR

ARTICLE 7 - INTEREST

7.01 All moneys not paid when due, excluding retainage, as provided in Article 14 of the General Conditions shall bear interest at the rate of 6.0%. Owner shall pay interest on retainage when required by the laws of the State of Texas.

ARTICLE 8 - CONTRACTOR'S REPRESENTATIONS

8.01 In order to induce OWNER to enter into this Agreement CONTRACTOR makes the following representations:

A. CONTRACTOR has examined and carefully studied the Contract Documents and the other related data identified in the Bidding Documents, including Addendums.

B. CONTRACTOR has visited the Site and become familiar with and is satisfied as to the general, local, and Site conditions that may affect cost, progress, and performance of the Work.

C. CONTRACTOR is familiar with and is satisfied as to all federal, state, and local Laws and Regulations that may affect cost, progress, and performance of the Work.

D. CONTRACTOR acknowledges that OWNER and Engineer do not assume responsibility for the accuracy or completeness of information and data shown or indicated in the Contract Documents with respect to Underground Facilities at or contiguous to the Project site.

E. CONTRACTOR has obtained and carefully studied (or assumes responsibility for having done so) all examinations, investigations, explorations, tests, studies, and data concerning conditions which may affect cost, progress, or performance of the Work or which relate to any aspect of the means, methods, techniques, sequences, and procedures of construction to be employed by CONTRACTOR, including applying the specific means, methods, techniques, sequences, and procedures of construction, if any, expressly required by the Contract Documents to be employed by CONTRACTOR, and safety precautions and programs incident thereto.

F. CONTRACTOR does not consider that any further examinations, investigations, explorations, tests, studies, or data are necessary for the performance of the Work at the Contract Price, within the Contract Times, and in accordance with the other terms and conditions of the Contract Documents.

G. CONTRACTOR is aware of the general nature of work to be performed by OWNER and others at the Site that relates to the Work as indicated in the Contract Documents.

H. CONTRACTOR has correlated the information known to CONTRACTOR, information and observations obtained from visits to the Site, reports and drawings

SECTION 00500
STANDARD FORM OF AGREEMENT
BETWEEN OWNER AND CONTRACTOR

identified in the Contract Documents, and all additional examinations, investigations, explorations, tests, studies, and data with the Contract Documents.

I. CONTRACTOR has given Engineer written notice of all conflicts, errors, ambiguities, or discrepancies that CONTRACTOR has discovered in the Contract Documents, and the written resolution thereof by Engineer is acceptable to CONTRACTOR.

J. The Contract Documents are generally sufficient to indicate and convey understanding of all terms and conditions for performance and furnishing of the Work.

K. Where conflicts, errors, ambiguities or discrepancies have been discovered in or between Contract Documents and/or other related documents, and where said conflicts, etc., have not been resolved through the interpretations or clarifications by Engineer as described in the Instructions to Bidders, because of insufficient time or otherwise, CONTRACTOR has included in the Bid the greater quantity or better quality of Work, or compliance with the more stringent requirement resulting in a greater cost.

K. CONTRACTOR agrees that no contractor, subcontractor, material supplier, vendor, laborer, mechanic, or other person can or will contract for or in any other manner acquire any lien upon the building or works covered by the Agreement, or the land upon which the same is situated.

ARTICLE 9 - CONTRACT DOCUMENTS

9.01 Contents

- A. The Contract Documents consist of the following:
1. Instructions to Bidders
 2. This Agreement (Standard Form of Agreement, Between Owner and Contractor, on The Basis of a Stipulated Price);
 3. Bid and Information Submitted with Bid;
 4. Insurance Certificates;
 5. Performance Bond;
 6. Payment Bond;
 7. Warranty Bond;
 5. General Conditions;
 6. Supplemental Conditions;
 7. Technical Specifications;
 8. Project Drawings
 9. Addenda (numbers_ to __, inclusive);
 10. Pre-Bid Meeting Minutes
 11. Exhibits to this Agreement:
 - a. CONTRACTOR's Bid;
 - b. Documentation Submitted by CONTRACTOR Prior to Notice of Award;

SECTION 00500
STANDARD FORM OF AGREEMENT
BETWEEN OWNER AND CONTRACTOR

- c. Blank Certificate of Substantial Completion;
 - d. Blank Work Change Directive Form;
 - e. Blank Change Order Form;
 - f. Blank Affidavit of All Bills Paid;
 - g. Blank Certificate of Final Completion;
12. The following which may be delivered or issued on or after the Effective Date of the Agreement and are not attached hereto:
- a. Written Amendments;
 - b. Executed Work Change Directives;
 - c. Executed Change Order(s).
- B. With the exception of bound drawings, the documents listed above are attached to this Agreement (except as expressly noted otherwise above).
- C. There are no Contract Documents other than those listed above.
- D. The Contract Documents may only be amended, modified, or supplemented as provided in paragraph 3.04 of the General Conditions.

ARTICLE 10 - MISCELLANEOUS

10.01 Terms

- A. Terms used in this Agreement will have the meanings indicated in the General Conditions and Supplemental Conditions.

10.02 Assignment of Contract

- A. No assignment by a party hereto of any rights under or interests in the Contract will be binding on another party hereto without the written consent of the party sought to be bound; and, specifically but without limitation, moneys that may become due and moneys that are due may not be assigned without such consent (except to the extent that the effect of this restriction may be limited by law), and unless specifically stated to the contrary in any written consent to an assignment, no assignment will release or discharge the assignor from any duty or responsibility under the Contract Documents.

10.03 Successors and Assigns

- A. OWNER and CONTRACTOR each binds itself, its partners, successors, assigns, and legal representatives to the other party hereto, its partners, successors, assigns, and legal representatives in respect to all covenants, agreements, and obligations contained in the Contract Documents.

10.04 Severability

- A. Any provision or part of the Contract Documents held to be void or unenforceable

SECTION 00500
STANDARD FORM OF AGREEMENT
BETWEEN OWNER AND CONTRACTOR

under any Law or Regulation shall be deemed stricken, and all remaining provisions shall continue to be valid and binding upon OWNER and CONTRACTOR, who agree that the Contract Documents shall be reformed to replace such stricken provision or part thereof with a valid and enforceable provision that comes as close as possible to expressing the intention of the stricken provision.

10.05 Law

A. The agreement shall be interpreted according to the laws of the State of Texas.

10.06 Venue

A. If any lawsuit is filed relating to the agreement, venue shall be in Hays County, Texas.

10.07 Modification of Agreement

A. This is the entire agreement between the parties. This agreement cannot be amended except in writing, signed by both parties.

ARTICLE 11 – INDEMNIFICATION OF OWNER AND ENGINEER BY CONTRACTOR

11.01 As is provided in Section 6.20 of the General Conditions, CONTRACTOR agrees to indemnify and hold harmless OWNER, ENGINEER, ENGINEER's consultants and the officers, directors, employees, agents and other consultants of each and any of them from and against all claims, costs, losses, and damages caused by or arising out of or resulting from the performance of the Work, provided that any such claim, cost, loss, or damage: (i) is attributable to bodily injury, sickness, disease or death, or to injury to or destruction of tangible property (other than the work itself), including loss or use therefrom and (ii) is caused in whole or in part by any act or omission of the CONTRACTOR, any Subcontractor, any Supplier or any person or organization directly or indirectly employed by any of them to perform or furnish any of the Work or anyone else for whose acts any of them may be liable, **REGARDLESS OF WHETHER OR NOT CAUSED BY ANY NEGLIGENCE OR OMISSION OF OWNER, ENGINEER OR ANY OF THE OTHER PERSONS LISTED ABOVE TO BE INDEMNIFIED HEREUNDER OR WHETHER LIABILITY IS IMPOSED UPON SUCH INDEMNIFIED PARTY BY LAWS AND REGULATIONS REGARDLESS OF THE NEGLIGENCE OF SUCH PERSON OR ENTITY.**

**SECTION 00500
STANDARD FORM OF AGREEMENT
BETWEEN OWNER AND CONTRACTOR**

IN WITNESS WHEREOF, OWNER and CONTRACTOR have signed this Agreement of **Five (5)** Originals. One counterpart each has been delivered to OWNER and CONTRACTOR. All portions of the Contract Documents have been signed or identified by OWNER and CONTRACTOR or on their behalf.

This Agreement will be effective on _____, _____ (which is the Effective Date of the Agreement).

OWNER:

CONTRACTOR:

City of Dripping Springs

By: _____

By _____

Bill Foulds, Mayor

Attest: _____

Attest _____

Address for giving notices:
City of Dripping Springs

Address for giving notices:

P.O. Box 384

511 Mercer Street

Dripping Springs, Texas 78620

License No. _____

Agent for service of process: _____

Designated Representative:

Designated Representative:

Name: **Michelle Fischer**

Name: _____

Title: **City Administrator**

Title: _____

Address:
City of Dripping Springs

Address:

P.O. Box 384

511 Mercer Street

Dripping Springs, Texas 78620

Phone: **(512) 858-4725**

Phone: _____

**SECTION 00500
STANDARD FORM OF AGREEMENT
BETWEEN OWNER AND CONTRACTOR**

Fax: **(512) 858-5646**

Fax: _____

**SECTION 00610
PAYMENT BOND**

Any singular reference to Contractor, Surety, Owner or other party shall be considered plural where applicable.

CONTRACTOR (Name and Address):

SURETY (Name and Address of Principal Place of Business):

OWNER (Name and Address):

City of Dripping Springs
P.O. Box 384
511 Mercer Street
Dripping Springs, TX 78620

CONTRACT

Date:

Amount:

Description (Name and Location):

BOND

Date (Not earlier than Contract Date):

Amount:

Modifications to this Bond Form:

Surety and Contractor, intending to be legally bound hereby, subject to the terms printed on the reverse side hereof, do each cause this Payment Bond to be duly executed on its behalf by its authorized officer, agent or representative.

CONTRACTOR AS PRINCIPAL

Company: _____ (Corp. Seal)

SURETY

Company: _____ (Corp. Seal)

Signature: _____
Name and Title:

Signature: _____
Name and Title:
(Attach Power of Attorney)

(Space is provided below for signatures of additional parties, if required.)

CONTRACTOR AS PRINCIPAL

Company: _____ (Corp. Seal)

SURETY

Company: _____ (Corp. Seal)

Signature: _____
Name and Title:

Signature: _____
Name and Title:

1. The CONTRACTOR and the Surety, jointly and severally, bind themselves, their heirs, executors, administrators, successors and assigns to the OWNER to pay for labor, materials and equipment furnished for use in the performance of the Contract, which is incorporated herein by reference.

2. With respect to the OWNER, this obligation shall be null and void if the CONTRACTOR:

2.1. Promptly makes payment, directly or indirectly, for all sums due Claimants, and

2.2. Defends, indemnifies and holds harmless the OWNER from all claims, demands, liens or suits by any person or entity who furnished labor, materials or equipment for use in the performance of the Contract, provided the OWNER has promptly notified the CONTRACTOR and the Surety (at the addresses described in paragraph 12) of any claims, demands, liens or suits and tendered defense of such claims, demands, liens or suits to the CONTRACTOR and the Surety, and provided there is no OWNER Default.

3. With respect to Claimants, this obligation shall be null and void if the CONTRACTOR promptly makes payment, directly or indirectly, for all sums due.

4. The Surety shall have not obligation to Claimants under this Bond until:

4.1. Claimants who are employed by or have a direct contract with the CONTRACTOR have given notice to the Surety (at the addresses described in paragraph 12) and sent a copy, or notice thereof, to the OWNER, stating that a claim is being made under this Bond and, with substantial accuracy, the amount of the claim.

4.2. Claimants who do not have a direct contract with the CONTRACTOR:

1. Have furnished written notice to the CONTRACTOR and sent a copy, or notice thereof, to the OWNER, within 90 days after having last performed labor or last furnished materials or equipment included in the claim stating, with substantial accuracy, the amount of the claim and the name of the party to whom the materials were furnished or supplied or for whom the labor was done or performed; and

2. Have either received a rejection in whole or part from the CONTRACTOR, or not received within 30 days of furnishing the above notice any communication from the CONTRACTOR by which the CONTRACTOR had indicated the claim will be paid directly or indirectly; and

3. Not having been paid within the above 30 days, have sent a written notice to the Surety and sent a copy, or notice thereof, to the OWNER, stating that a claim is being made under this Bond and enclosing a copy of the previous written notice furnished to the CONTRACTOR.

5. If a notice required by paragraph 4 is given by the OWNER to the CONTRACTOR or to the Surety, that is sufficient compliance.

6. When the Claimant has satisfied the conditions of paragraph 4, the surety shall promptly and at the Surety's expense take the following actions:

6.1. Send an answer to the Claimant, with a copy to the OWNER, within 45 days after receipt of the claim, stating the amounts that are undisputed and the basis for challenging any amounts that are disputed.

6.2. Pay or arrange for payment of any undisputed amounts.

7. The Surety's total obligation shall not exceed the amount of this Bond, and the amount of this Bond shall be credited for any payments made in good faith by the Surety.

8. Amounts owed by the OWNER to the CONTRACTOR under the Contract shall be used for the performance of the Contract and to satisfy claims, if any, under any Performance Bond. By the CONTRACTOR furnishing and the OWNER accepting this Bond, they agree that all funds earned by the CONTRACTOR in the performance of the Contract are dedicated to satisfy obligations of the CONTRACTOR and the Surety under this Bond, subject to the OWNER's priority to use the funds for the completion of the Work.

9. The Surety shall not be liable to the OWNER, Claimants or others for obligations of the CONTRACTOR that are unrelated to the Contract. The OWNER shall not be liable for payment of any costs or expenses of any Claimant under this Bond, and shall have under this Bond no obligations to Claimants under this Bond.

10. The Surety hereby waives notice of any change, including changes of time, to the Contract or to related Subcontracts, purchase orders and other obligations.

11. No suit or action shall be commenced by a Claimant under this Bond other than in a court of competent jurisdiction in the location in which the Work or part of the Work is located or after the expiration of one year from the date (1) on which the Claimant gave the notice required by paragraph 4.1 or paragraph 4.2.3, or (2) on which the last labor or service was performed by anyone or the last materials or equipment were furnished by anyone under the Construction Contract, whichever of (1) or (2) first occurs. If the provisions of this paragraph are void or prohibited by law, the minimum period of limitation available to sureties as a defense in the jurisdiction of the suit shall be applicable.

12. Notice to the Surety, the OWNER and the CONTRACTOR shall be mailed or delivered to the addresses shown on the signature page. Actual receipt of notice by Surety, the OWNER or the CONTRACTOR, however accomplished, shall be sufficient compliance as of the date received at the address shown on the signature page.

13. When this bond has been furnished to comply with a statutory or other legal requirement in the location where the Contract was to be performed, any provision in this Bond conflicting with said statutory or legal requirement shall be deemed deleted herefrom and provisions conforming to such statutory or other legal requirement shall be deemed incorporated herein. The intent is, that this Bond shall be construed as a statutory Bond and not as a common law bond.

14. Upon request of any person or entity appearing to be a potential beneficiary of this Bond, the CONTRACTOR shall promptly furnish a copy of this Bond or shall permit a copy to be made.

15. DEFINITIONS

15.1. Claimant: An individual or entity having a direct contract with the CONTRACTOR or with Subcontractor of the CONTRACTOR to furnish labor, materials or equipment for use in the performance of the Contract. The intent of this Bond shall be to include without limitation in the terms "labor, materials or equipment" that part of water, gas, power, light, heat, oil, gasoline, telephone service or rental equipment used in the Contract, architectural and engineering services required for performance of the Work of the CONTRACTOR and the CONTRACTOR's Subcontractors, and all other items for which a mechanic's lien may be asserted in the jurisdiction where the labor, materials or equipment were furnished.

15.2. Contract: The agreement between the OWNER and the CONTRACTOR identified on the signature page, including all Contract Documents and changes thereto.

15.3. OWNER Default: Failure of the OWNER, which has neither been remedied nor waived, to pay the CONTRACTOR as required by the Contract or to perform and complete or comply with the other terms thereof.

**SECTION 00620
PERFORMANCE BOND**

Any singular reference to Contractor, Surety, Owner or other party shall be considered plural where applicable.

CONTRACTOR (Name and Address):

SURETY (Name and Address of Principal Place of Business):

OWNER (Name and Address):

City of Dripping Springs
P.O. Box 384
511 Mercer Street
Dripping Springs, TX 78620

CONTRACT

Date:
Amount:
Description (Name and Location):

BOND

Date (Not earlier than Contract Date):
Amount:
Modifications to this Bond Form:

Surety and Contractor, intending to be legally bound hereby, subject to the terms printed on the reverse side hereof, do each cause this Performance Bond to be duly executed on its behalf by its authorized officer, agent or representative.

CONTRACTOR AS PRINCIPAL

Company: _____ (Corp. Seal)

SURETY

Company: _____ (Corp. Seal)

Signature: _____
Name and Title:

Signature: _____
Name and Title:
(Attach Power of Attorney)

(Space is provided below for signatures of additional parties, if required.)

CONTRACTOR AS PRINCIPAL

Company: _____ (Corp. Seal)

SURETY

Company: _____ (Corp. Seal)

Signature: _____
Name and Title:

Signature: _____
Name and Title:

1. The CONTRACTOR and the Surety, jointly and severally, bind themselves, their heirs, executors, administrators, successors and assigns to the OWNER for the performance of the Contract, which is incorporated herein by reference.
2. If the CONTRACTOR performs the Contract including any warranties or guarantees contained herein, the Surety and the CONTRACTOR have no obligation under this Bond, except to participate in conferences as provided in paragraph 3.1.
3. If there is no OWNER Default, the Surety's obligation under this Bond shall arise after:
 - 3.1. The OWNER has notified the CONTRACTOR and the Surety at the addresses described in paragraph 10 below, that the OWNER is considering declaring a CONTRACTOR Default and has requested and attempted to arrange a conference with the CONTRACTOR and the Surety to be held not later than fifteen days after receipt of such notice to discuss methods of performing the Contract, but such an agreement shall not waive the OWNER's right, if any, subsequently to declare a CONTRACTOR Default; and
 - 3.2. The OWNER has declared a CONTRACTOR Default and formally terminated the CONTRACTOR's right to complete the Contract. Such CONTRACTOR Default shall not be declared earlier than twenty days after the CONTRACTOR and the Surety have received notice as provided in paragraph 3.1; and
 - 3.3. The OWNER has agreed to pay the Balance of the Contract Price to:
 - 3.3.1. The Surety in accordance with the terms of the Contract;
 - 3.3.2. Another contractor selected pursuant to paragraph 4.3 to perform the Contract.
4. When the OWNER has satisfied the conditions of paragraph 3, the Surety shall promptly and at the Surety's expense take one of the following actions:
 - 4.1. Arrange for the CONTRACTOR, only with consent of the OWNER, which OWNER may withhold in its sole and absolute discretion, to perform and complete the Contract; or
 - 4.2. (Deleted)
 - 4.3. Obtain bids or negotiated proposals from qualified contractors acceptable to the OWNER for a contract for performance and completion of the Contract, arrange for a contract to be prepared for execution by the OWNER and the contractor selected with the OWNER's concurrence, to be secured with performance and payment bonds executed by a qualified surety equivalent to the Bonds issued on the Contract, and pay to the OWNER the amount of damages as described in paragraph 6 in excess of the Balance of the Contract Price incurred by the OWNER resulting from the CONTRACTOR Default; or
 - 4.4. Waive its right to perform and complete, arrange for completion, or obtain a new contractor in accordance with this paragraph 4 and with reasonable promptness under the circumstances;
 - 4.4.1. After investigation, determine the amount for which it may be liable to the OWNER and, as soon as practicable after the amount is determined, tender payment therefor to the OWNER; or
 - 4.4.2. (Deleted)
5. If the Surety does not proceed as provided in paragraph 4 with reasonable promptness, the Surety shall be deemed to be in default on this Bond fifteen days after receipt of an additional written notice from the OWNER to the Surety demanding that the Surety perform its obligations under this Bond, and the OWNER shall be entitled to enforce any remedy available to the OWNER. If the Surety proceeds as provided in paragraph 4.4, and the OWNER refuses the payment tendered or the Surety has denied liability, in whole or in part, without further notice the OWNER shall be entitled to enforce any remedy available to the OWNER.
6. After the OWNER has terminated the CONTRACTOR's right to complete the Contract, and if the Surety elects to act under paragraph 4.1 or 4.3 above, then the responsibilities of the Surety to the OWNER shall not be greater than those of the CONTRACTOR under the Contract, and the responsibilities of the OWNER to the Surety shall not be greater than those of the OWNER under the Contract. Up to the limit of the amount of this Bond, but subject to commitment by the OWNER of the Balance of the Contract Price to mitigate the costs and damages on the Contract, the Surety is obligated without duplication for:
 - 6.1. The responsibilities of the CONTRACTOR for correction of defective Work and completion of the Contract;
 - 6.2. Additional legal, design professional and delay costs resulting from the CONTRACTOR's Default, and resulting from the actions or failure to act of the Surety under paragraph 4; and
 - 6.3. Liquidated damages, or if no liquidated damages are specified in the Contract, actual damages caused by delayed performance or non-performance of the CONTRACTOR.
7. The Surety shall not be liable to the OWNER or others for obligations of the CONTRACTOR that are unrelated to the Contract, and the Balance of the Contract Price shall not be reduced or set off on account of any such unrelated obligations. No right of action shall accrue on this Bond to any person or entity other than the OWNER or its heirs, executors, administrators, or successors.
8. The Surety hereby waives notice of any change, including changes of time, to the Contract or to related subcontracts, purchase orders and other obligations.
9. Any proceeding, legal or equitable, under this Bond may be instituted in any court of competent jurisdiction in the location in which the Work or part of the Work is located.
10. Notice to the Surety, the OWNER or the CONTRACTOR shall be mailed or delivered to the address shown on the signature page.
11. When this Bond has been furnished to comply with a statutory or other legal requirement in the location where the Contract was being performed, any provision in this Bond conflicting with said statutory or legal requirement shall be deemed deleted herefrom and provisions conforming to such statutory or other legal requirement shall be deemed incorporated herein. The intent is that this Bond shall be construed as a statutory bond and not as a common law bond.
12. Definitions.
 - 12.1 Balance of the Contract Price: The total amount payable by the OWNER to the CONTRACTOR under the Contract after all proper adjustments have been made, including allowance to the CONTRACTOR of any amounts received or to be received by the OWNER in settlement of insurance or other Claims for damages to which the CONTRACTOR is entitled, reduced by all valid and proper payments made to or on behalf of the CONTRACTOR under the Contract.
 - 12.2 Contract: The agreement between the OWNER and the CONTRACTOR identified on the signature page, including all Contract Documents and changes thereto.
 - 12.3 CONTRACTOR Default: Failure of the CONTRACTOR, which has neither been remedied nor waived, to perform or otherwise to comply with the terms of the Contract.
 - 12.4 OWNER Default: Failure of the OWNER, which has neither been remedied nor waived, to pay the CONTRACTOR as required by the Contract or to perform and complete or comply with the other terms thereof following written notice to the OWNER and the OWNER's continued failure to cure for ten (10) days after receipt of notice.

**SECTION 00630
WARRANTY BOND**

KNOW ALL MEN BY THESE PRESENTS: That we, _____ as Principal, and _____, a Corporation duly organized under the laws of the State of _____ and duly licensed to transact business in the State of _____ as Surety, are held and firmly bound unto Hays County Water Control and Improvement District No. 1 as Owner and Obligee, in the sum of _____ (\$_____). For the payment of which sum well and truly to be made, we, the said Principal and the said Surety, bind ourselves, out heirs, executors, administrators, successors and assigns, jointly and severally, firmly, by these presents.

Executed and dated this _____ day of _____, 2025

WHEREAS, the said Principal has submitted a Bid to the Owner dated _____, 2025 (the "Bid") and has been selected as the Contractor for the construction of _____ as described in the Contract Documents (the "Project");

WHEREAS, the Principal shall provide warranties directly to the Owner as set forth in the Contract Documents, and has consented to provide this Bond which shall cover any defect in materials or workmanship provided or performed pursuant to the Contract Documents, for a period of one (1) year following final acceptance of the Project.

NOW, THEREFORE, THE CONDITIONS OF THE OBLIGATION ARE SUCH, that if said Principal shall faithfully repair or replace any defect in the materials or workmanship free of charge to Owner which may develop or occur during the one (1) year period following date of final acceptance of the Project by Owner and subject to the limits and liabilities and other terms and conditions set forth in the Contract Documents, then this obligation shall be null and void; otherwise this obligation shall remain in full force and effect.

PROVIDED AND SUBJECT TO THE CONDITIONS PRECEDENT:

1. Obligee shall provide both Principal and Surety with written notice of the discovery ("Notice of Discovery") of any item of warranty obligation which arises during the covered period (a "Covered Item"). Should Principal improperly fail to remedy the Covered Item, then Obligee shall make a written demand upon the Surety ("Demand") within ninety (90) days of the Obligee's issuance of the Notice of Discovery of the Covered Item. The Notice of Discovery and the Demand shall be in writing and via certified mail to the Principal and the Surety.
2. Any and all claims made under this Bond shall be subject to the limits and liabilities and other terms and conditions as set forth in the Contract Documents, which terms are incorporated herein by reference.

Principal

Surety

By _____

By _____

Title _____

Title _____

Address _____

Address _____

Owner:

By _____

Title _____

Address _____

By The name and address of the Resident Agency of the Surety is:

A copy of the Surety Agent's Power of Attorney must be attached.

STANDARD GENERAL CONDITIONS
OF THE CONSTRUCTION CONTRACT

CITY OF DRIPPING SPRINGS
SOUTH REGIONAL WASTEWATER SYSTEM

HOWARD RANCH TREATED EFFLUENT FILL STATION

THE GENERAL CONDITIONS OF THE AGREEMENT BETWEEN OWNER AND CONTRACTOR FOR CONSTRUCTION CONTRACT WILL BE THE STANDARD GENERAL CONDITIONS OF THE CONSTRUCTION CONTRACT PREPARED BY THE ENGINEERS JOINT CONTRACT DOCUMENTS COMMITTEE (EJCDC C-700, VERSION 2018) WITH MODIFICATIONS MADE BY OWNER.

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 Law.

STANDARD GENERAL CONDITIONS OF THE CONSTRUCTION CONTRACT

Prepared by

ENGINEERS JOINT CONTRACT DOCUMENTS COMMITTEE

and

Issued and Published Jointly By



PROFESSIONAL ENGINEERS IN PRIVATE PRACTICE
a practice division of the
NATIONAL SOCIETY OF PROFESSIONAL ENGINEERS

AMERICAN CONSULTING ENGINEERS COUNCIL

AMERICAN SOCIETY OF CIVIL ENGINEERS

This document has been approved and endorsed by

The Associated General



Contractors of America



Construction Specifications Institute

These General Conditions have been prepared for use with the Owner-Contractor Agreements (No. 1910-8-A-1 or 1910-8-A-2) (1996 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 EJCDC User's Guide (No. 1910-50). For guidance in the

preparation of Supplementary Conditions, see Guide to the Preparation of Supplementary Conditions (No. 1910-17) (1996 Edition).

EJCDC No. 1910-8 (1996 Edition)

Copyright ©1996

National Society of Professional Engineers
1420 King Street, Alexandria, VA 22314

American Consulting Engineers Council
1015 15th Street N.W., Washington, DC 20005

American Society of Civil Engineers
345 East 47th Street, New York, NY 10017

TABLE OF CONTENTS

Page

ARTICLE 1 - DEFINITIONS AND TERMINOLOGY 8
 1.01 *Defined Terms* 8
 1.02 *Terminology*..... 10

ARTICLE 2 - PRELIMINARY MATTERS 11
 2.01 *Delivery of Bonds* 11
 2.02 *Copies of Documents*..... 11
 2.03 *Commencement of Contract Times; Notice to Proceed* 11
 2.04 *Starting the Work* 11
 2.05 *Before Starting Construction* 11
 2.06 *Preconstruction Conference* 12
 2.07 *Initial Acceptance of Schedules* 12

ARTICLE 3 - CONTRACT DOCUMENTS: INTENT, AMENDING, REUSE 12
 3.01 *Intent* 12
 3.02 *Reference Standards*..... 13
 3.03 *Reporting and Resolving Discrepancies*..... 13
 3.04 *Amending and Supplementing Contract Documents*..... 13
 3.05 *Reuse of Documents* 13

ARTICLE 4 - AVAILABILITY OF LANDS; SUBSURFACE AND PHYSICAL CONDITIONS; REFERENCE POINTS 14
 4.01 *Availability of Lands* 14
 4.02 *Subsurface and Physical Conditions* 14
 4.03 *Differing Subsurface or Physical Conditions* 14
 4.04 *Underground Facilities* 15
 4.05 *Reference Points*..... 16
 4.06 *Hazardous Environmental Condition at Site*..... 16

ARTICLE 5 - BONDS AND INSURANCE 17
 5.01 *Performance, Payment, and Other Bonds* 17
 5.02 *Licensed Sureties and Insurers* 17
 5.03 *Certificates of Insurance* 18
 5.04 *CONTRACTOR’s Liability Insurance* 18
 5.05 *OWNER’s Liability Insurance* 19
 5.06 *Property Insurance*..... 19
 5.07 *Waiver of Rights* 20
 5.08 *Receipt and Application of Insurance Proceeds* 20
 5.09 *Acceptance of Bonds and Insurance; Option to Replace* 20
 5.10 *Partial Utilization, Acknowledgment of Property Insurer* 21

ARTICLE 6 - CONTRACTOR’S RESPONSIBILITIES 21
 6.01 *Supervision and Superintendence* 21
 6.02 *Labor; Working Hours* 21
 6.03 *Services, Materials, and Equipment* 21
 6.04 *Progress Schedule* 22
 6.05 *Substitutes and “Or-Equals”* 22
 6.07 *Patent Fees and Royalties* 24

| | |
|--|----|
| 6.08 Permits..... | 24 |
| 6.09 Laws and Regulations | 24 |
| 6.10 Taxes..... | 25 |
| 6.11 Use of Site and Other Areas..... | 25 |
| 6.13 Safety and Protection | 25 |
| 6.14 Safety Representative | 26 |
| 6.15 Hazard Communication Programs..... | 26 |
| 6.16 Emergencies | 26 |
| 6.17 Shop Drawings and Samples | 26 |
| 6.18 Continuing the Work | 27 |
| 6.19 CONTRACTOR'S General Warranty and Guarantee..... | 27 |
| 6.20 Indemnification..... | 28 |
| | |
| ARTICLE 7 - OTHER WORK | 29 |
| 7.01 Related Work at Site | 29 |
| 7.02 Coordination | 29 |
| | |
| ARTICLE 8 - OWNER'S RESPONSIBILITIES..... | 29 |
| 8.01 Communications to Contractor | 29 |
| 8.02 Replacement of ENGINEER | 29 |
| 8.03 Furnish Data | 29 |
| 8.04 Pay Promptly When Due..... | 29 |
| 8.05 Lands and Easements; Reports and Tests | 29 |
| 8.06 Insurance | 30 |
| 8.07 Change Orders | 30 |
| 8.08 Inspections, Tests, and Approvals..... | 30 |
| 8.09 Limitations on OWNER'S Responsibilities | 30 |
| 8.10 Undisclosed Hazardous Environmental Condition..... | 30 |
| 8.11 Evidence of Financial Arrangements | 30 |
| | |
| ARTICLE 9 - ENGINEER'S STATUS DURING CONSTRUCTION | 30 |
| 9.01 OWNER'S Representative..... | 30 |
| 9.02 Visits to Site | 30 |
| 9.03 Project Representative | 30 |
| 9.04 Clarifications and Interpretations | 31 |
| 9.05 Authorized Variations in Work | 31 |
| 9.06 Rejecting Defective Work..... | 31 |
| 9.07 Shop Drawings, Change Orders and Payments..... | 31 |
| 9.09 Decisions on Requirements of Contract Documents and Acceptability of Work | 31 |
| 9.10 Limitations on ENGINEER'S Authority and Responsibilities | 31 |
| | |
| ARTICLE 10 - CHANGES IN THE WORK; CLAIMS | 32 |
| 10.01 Authorized Changes in the Work | 32 |
| 10.02 Unauthorized Changes in the Work..... | 32 |
| 10.03 Execution of Change Orders..... | 32 |
| 10.04 Notification to Surety | 32 |
| 10.05 Claims and Disputes | 33 |
| | |
| ARTICLE 11 - COST OF THE WORK; CASH ALLOWANCES; UNIT PRICE WORK..... | 33 |
| 11.01 Cost of the Work | 33 |
| 11.02 Cash Allowances | 35 |
| 11.03 Unit Price Work | 35 |

| | |
|---|----|
| ARTICLE 12 - CHANGE OF CONTRACT PRICE; CHANGE OF CONTRACT TIMES | 36 |
| 12.01 <i>Change of Contract Price</i> | 36 |
| 12.02 <i>Change of Contract Times</i> | 36 |
| 12.03 <i>Delays Beyond CONTRACTOR's Control</i> | 37 |
| 12.04 <i>Delays Within CONTRACTOR's Control</i> | 37 |
| 12.06 <i>Delay Damages</i> | 37 |
| ARTICLE 13 - TESTS AND INSPECTIONS; CORRECTION, REMOVAL OR ACCEPTANCE OF DEFECTIVE WORK..... | 37 |
| 13.01 <i>Notice of Defects</i> | 37 |
| 13.02 <i>Access to Work</i> | 37 |
| 13.03 <i>Tests and Inspections</i> | 37 |
| 13.04 <i>Uncovering Work</i> | 38 |
| 13.05 <i>OWNER May Stop the Work</i> | 38 |
| 13.06 <i>Correction or Removal of Defective Work</i> | 38 |
| 13.07 <i>Correction Period</i> | 38 |
| 13.08 <i>Acceptance of Defective Work</i> | 39 |
| 13.09 <i>OWNER May Correct Defective Work</i> | 39 |
| ARTICLE 14 - PAYMENTS TO CONTRACTOR AND COMPLETION..... | 40 |
| 14.01 <i>Schedule of Values</i> | 40 |
| 14.02 <i>Progress Payments</i> | 40 |
| 14.03 <i>CONTRACTOR's Warranty of Title</i> | 41 |
| 14.04 <i>Substantial Completion</i> | 42 |
| 14.05 <i>Partial Utilization</i> | 42 |
| 14.06 <i>Final Inspection</i> | 42 |
| 14.07 <i>Final Payment</i> | 43 |
| 14.09 <i>Waiver of Claims</i> | 43 |
| ARTICLE 15 - SUSPENSION OF WORK AND TERMINATION | 44 |
| 15.01 <i>OWNER May Suspend Work</i> | 44 |
| 15.02 <i>OWNER May Terminate for Cause</i> | 44 |
| 15.03 <i>OWNER May Terminate For Convenience</i> | 44 |
| 15.04 <i>CONTRACTOR May Stop Work or Terminate</i> | 45 |
| ARTICLE 16 - DISPUTE RESOLUTION..... | 45 |
| 16.01 <i>Methods and Procedures</i> | 45 |
| ARTICLE 17 - MISCELLANEOUS | 45 |
| 17.01 <i>Giving Notice</i> | 45 |
| 17.02 <i>Computation of Times</i> | 45 |
| 17.03 <i>Cumulative Remedies</i> | 45 |
| 17.04 <i>Survival of Obligations</i> | 45 |
| 17.05 <i>Controlling Law</i> | 45 |

GENERAL CONDITIONS

ARTICLE 1 - DEFINITIONS AND TERMINOLOGY

1.01 *Defined Terms*

A. Wherever used in the Contract Documents and printed with initial or all capital letters, the terms listed below will have the meanings indicated which are applicable to both the singular and plural thereof.

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

2. *Agreement*--The written instrument which is evidence of the agreement between OWNER and CONTRACTOR covering the Work.

3. *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.

4. *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.

5. *Bid*--The offer or proposal of a bidder submitted on the prescribed form setting forth the prices for the Work to be performed.

6. *Bidding Documents*--The Bidding Requirements and the proposed Contract Documents (including all Addenda issued prior to receipt of Bids).

7. *Bidding Requirements*--The Advertisement or Invitation to Bid, Instructions to Bidders, Bid security form, if any, and the Bid form with any supplements.

8. *Bonds*--Performance and payment bonds and other instruments of security.

9. *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.

10. *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.

11. *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.

12. *Contract Documents*--The Contract Documents establish the rights and obligations of the parties and include the Agreement, Addenda (which pertain to the Contract Documents), CONTRACTOR's Bid (including documentation accompanying the Bid and any post Bid documentation submitted prior to the Notice of Award) when attached as an exhibit to the Agreement, the Notice to Proceed, the Bonds, these General Conditions, the Supplementary Conditions, the Specifications and the Drawings as the same are more specifically identified in the Agreement, together with all Written Amendments, Change Orders, Work Change Directives, Field Orders, and ENGINEER's written interpretations and clarifications issued on or after the Effective Date of the Agreement. Approved Shop Drawings and the reports and drawings of subsurface and physical conditions are not Contract Documents. Only printed or hard copies of the items listed in this paragraph are Contract Documents. Files in electronic media format of text, data, graphics, and the like that may be furnished by OWNER to CONTRACTOR are not Contract Documents.

13. *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).

14. *Contract Times*--The number of days or the dates stated in the Agreement to: (i) achieve Substantial Completion; and (ii) complete the Work so that it is ready for final payment as evidenced by ENGINEER's written recommendation of final payment.

15. *CONTRACTOR*--The individual or entity with whom OWNER has entered into the Agreement.

16. *Cost of the Work*--See paragraph 11.01.A for definition.

17. *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.

18. *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.

19. *ENGINEER*--The individual or entity named as such in the Agreement.

20. *ENGINEER's Consultant*--An individual or entity having a contract with ENGINEER to furnish services as ENGINEER's independent professional associate or consultant with respect to the Project and who is identified as such in the Supplementary Conditions.

21. *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.

22. *General Requirements*--Sections of Division 1 of the Specifications. The General Requirements pertain to all sections of the Specifications.

23. *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 in connection with the Work.

24. *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.

25. *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.

26. *Liens*--Charges, security interests, or encumbrances upon Project funds, real property, or personal property.

27. *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.

28. *Notice of Award*--The written notice by OWNER to the apparent successful bidder stating that upon timely compliance by the apparent successful bidder with the conditions precedent listed therein, OWNER will sign and deliver the Agreement.

29. *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.

30. *OWNER*--The individual, entity, public body, or authority with whom CONTRACTOR has entered into the Agreement and for whom the Work is to be performed.

31. *Partial Utilization*--Use by OWNER of a substantially completed part of the Work for the purpose for which it is intended (or a related purpose) prior to Substantial Completion of all the Work.

32. *PCBs*--Polychlorinated biphenyls.

33. *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.

34. *Project*--The total construction of which the Work to be performed under the Contract Documents may be the whole, or a part as may be indicated elsewhere in the Contract Documents.

35. *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.

36. *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.

37. *Resident Project Representative*--The authorized representative of ENGINEER who may be assigned to the Site or any part thereof.

38. *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.

39. *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.

40. *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.

41. *Specifications*--That part of the Contract Documents consisting of written technical descriptions of materials, equipment, systems, standards, and workmanship as applied to the Work and certain administrative details applicable thereto.

42. *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.

43. *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.

44. *Supplementary Conditions*--That part of the Contract Documents which amends or supplements these General Conditions.

45. *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 any Subcontractor.

46. *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.

47. *Unit Price Work*--Work to be paid for on the basis of unit prices.

48. *Work*--The entire completed 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.

49. *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.

50. *Written Amendment*--A written statement modifying the Contract Documents, signed by OWNER and CONTRACTOR on or after the Effective Date of the Agreement and normally dealing with the nonengineering or nontechnical rather than strictly construction-related aspects of the Contract Documents.

1.02 Terminology

A. Intent of Certain Terms or Adjectives

1. Whenever in the Contract Documents the terms "as allowed," "as approved," or terms of like effect or import are used, or 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 action or determination will be solely to evaluate, in general, the completed Work for compliance with the requirements of and information in the Contract Documents and conformance with the design concept of the completed 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 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 9.10 or any other provision of the Contract Documents.

B. *Day*

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

C. *Defective*

1. The word “defective,” when modifying the word “Work,” refers to Work that is unsatisfactory, faulty, or deficient in that it does not conform to the Contract Documents or does not meet the requirements of any inspection, reference standard, test, or approval referred to in the Contract Documents, or 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).

D. *Furnish, Install, Perform, Provide*

1. 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.

2. 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.

3. 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.

4. 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.

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

ARTICLE 2 - PRELIMINARY MATTERS

2.01 *Delivery of Bonds*

A. When CONTRACTOR delivers the executed Agreements to OWNER, CONTRACTOR shall also deliver to OWNER such Bonds as CONTRACTOR may be required to furnish.

2.02 *Copies of Documents*

A. OWNER shall furnish to CONTRACTOR up to ten copies of the Contract Documents. Additional copies will be furnished upon request at the cost of reproduction.

2.03 *Commencement of Contract Times; Notice to Proceed*

A. 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.

2.04 *Starting the Work*

A. 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.

2.05 *Before Starting Construction*

A. *CONTRACTOR’s Review of Contract Documents:* 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 may discover and shall obtain a written interpretation or clarification from ENGINEER before proceeding with any Work affected thereby; however, 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 knew or reasonably should have known thereof.

B. *Preliminary Schedules:* Within ten days after the Effective Date of the Agreement (unless otherwise speci-

fied in the General Requirements), CONTRACTOR shall submit to ENGINEER for its timely review:

1. 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;
2. a preliminary schedule of Shop Drawing and Sample submittals which will list each required submittal and the times for submitting, reviewing, and processing such submittal; and
3. 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.

C. *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.

2.06 *Preconstruction Conference*

A. Within 20 days after the Contract Times start to run, but before any Work at the Site is started, a conference attended by 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.B, procedures for handling Shop Drawings and other submittals, processing Applications for Payment, and maintaining required records.

2.07 *Initial Acceptance of Schedules*

A. Unless otherwise provided in the Contract Documents, at least ten 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.B. CONTRACTOR shall have an additional ten 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.

1. The progress schedule will be acceptable to ENGINEER if it provides an orderly progression of the Work to completion within any specified Milestones and 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.

2. CONTRACTOR's schedule of Shop Drawing and Sample submittals will be acceptable to ENGINEER if it provides a workable arrangement for reviewing and processing the required submittals.

3. 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.

ARTICLE 3 - CONTRACT DOCUMENTS: INTENT, AMENDING, REUSE

3.01 *Intent*

A. The Contract Documents are complementary; what is called for by one is as binding as if called for by all.

B. 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 may reasonably be inferred from the Contract Documents or from prevailing custom or trade usage as being required to produce the intended result will be provided whether or not specifically called for at no additional cost to OWNER.

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

3.02 *Reference Standards*

A. *Standards, Specifications, Codes, Laws, and Regulations*

1. 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.

2. 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, nor shall any such provision or instruction be effective to assign to OWNER, ENGINEER, or any of ENGINEER's Consultants, agents, or employees 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.

3.03 *Reporting and Resolving Discrepancies*

A. *Reporting Discrepancies*

1. 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 any provision of any Law or Regulation applicable to the performance of the Work or of any standard, specification, manual or code, or of any instruction of any Supplier, CONTRACTOR shall report it to ENGINEER in writing at once. 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; provided, however, that CONTRACTOR shall not be liable to OWNER or ENGINEER for failure to report any such conflict, error, ambiguity, or discrepancy unless CONTRACTOR knew or reasonably should have known thereof.

B. *Resolving Discrepancies*

1. 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:

a. the provisions of any standard, specification, manual, code, or instruction (whether or not specifically incorporated by reference in the Contract Documents); or

b. 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).

3.04 *Amending and Supplementing Contract Documents*

A. The Contract Documents may be amended to provide for additions, deletions, and revisions in the Work or to modify the terms and conditions thereof in one or more of the following ways: (i) a Written Amendment; (ii) a Change Order; or (iii) a Work Change Directive.

B. 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: (i) a Field Order; (ii) ENGINEER's approval of a Shop Drawing or Sample; or (iii) ENGINEER's written interpretation or clarification.

3.05 *Reuse of Documents*

A. CONTRACTOR and any Subcontractor or Supplier or other individual or entity performing or furnishing any of the Work under a direct or indirect contract with OWNER: (i) 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 ENGINEER's Consultant, including electronic media editions; and (ii) shall not reuse any of 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 adaption by ENGINEER. This prohibition will survive final payment, completion, and acceptance of the Work, or termination or completion of the Contract. Nothing herein shall preclude CONTRACTOR from retaining copies of the Contract Documents for record purposes.

ARTICLE 4 - AVAILABILITY OF LANDS;
SUBSURFACE AND PHYSICAL CONDITIONS;
REFERENCE POINTS

4.01 *Availability of Lands*

A. 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, CONTRACTOR may make a Claim therefor as provided in paragraph 10.05.

B. 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.

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

4.02 *Subsurface and Physical Conditions*

A. *Reports and Drawings:* The Supplementary Conditions identify:

1. those reports of explorations and tests of subsurface conditions at or contiguous to the Site that ENGINEER has used in preparing the Contract Documents; and

2. those drawings of physical conditions in or relating to existing surface or subsurface structures at or contiguous to the Site (except Underground Facilities) that ENGINEER has used in preparing the Contract Documents.

B. *Limited Reliance by CONTRACTOR on Technical Data Authorized:* CONTRACTOR may rely upon the general 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, ENGINEER, or any of ENGINEER's Consultants with respect to:

1. 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

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

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

4.03 *Differing Subsurface or Physical Conditions*

A. *Notice:* If CONTRACTOR believes that any subsurface or physical condition at or contiguous to the Site that is uncovered or revealed either:

1. 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

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

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

4. 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.

B. *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.

C. *Possible Price and Times Adjustments*

1. 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 9.08 and 11.03.

2. CONTRACTOR shall not be entitled to any adjustment in the Contract Price or Contract Times if:

a. CONTRACTOR knew of the existence of such conditions at the time CONTRACTOR made a final commitment to OWNER in respect of Contract Price and Contract Times by the submission of a Bid or becoming bound under a negotiated contract; or

b. 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

c. CONTRACTOR failed to give the written notice within the time and as required by paragraph 4.03.A.

3. 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, OWNER, ENGINEER, and ENGINEER's Consultants 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.

4.04 *Underground Facilities*

A. *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:

1. OWNER and ENGINEER shall not be responsible for the accuracy or completeness of any such information or data; and

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

a. reviewing and checking all such information and data,

b. locating all Underground Facilities shown or indicated in the Contract Documents,

c. coordination of the Work with the owners of such Underground Facilities, including OWNER, during construction, and

d. the safety and protection of all such Underground Facilities and repairing any damage thereto resulting from the Work.

B. *Not Shown or Indicated*

1. 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.

2. 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 of 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.

4.05 *Reference Points*

A. 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.

4.06 *Hazardous Environmental Condition at Site*

A. *Reports and Drawings:* Reference is made to the Supplementary Conditions for the identification of those reports and drawings relating to a Hazardous Environmental Condition identified at the Site, if any, that have been utilized by the ENGINEER in the preparation of the Contract Documents.

B. *Limited Reliance by CONTRACTOR on Technical Data Authorized:* CONTRACTOR may rely upon the general 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, ENGINEER or any of ENGINEER's Consultants with respect to:

1. 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

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

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

C. 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.

D. 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); 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.

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 to CONTRACTOR written

notice: (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.

F. 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.

G. To the fullest extent permitted by Laws and Regulations, OWNER shall indemnify and hold harmless CONTRACTOR, Subcontractors, ENGINEER, ENGINEER's Consultants and the officers, directors, partners, employees, agents, other 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.E shall obligate OWNER to indemnify any individual or entity from and against the consequences of that individual's or entity's own negligence.

H. To the fullest extent permitted by Laws and Regulations, CONTRACTOR shall indemnify and hold harmless OWNER, ENGINEER, ENGINEER's Consultants, and the officers, directors, partners, employees, agents, other 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.F shall obligate CONTRACTOR to indemnify any individual or entity from and against the consequences of that individual's or entity's own negligence.

I. The provisions of paragraphs 4.02, 4.03, and 4.04 are not intended to apply to a Hazardous Environmental Condition uncovered or revealed at the Site.

ARTICLE 5 - BONDS AND INSURANCE

5.01 *Performance, Payment, and Other Bonds*

A. 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 CONTRACTOR's obligations under the Contract Documents. These Bonds shall remain in effect at least until one year after the date when final payment becomes due, 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.

B. 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 current 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 must be accompanied by a certified copy of such agent's authority to act.

C. 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 within 20 days thereafter substitute another Bond and surety, both of which shall comply with the requirements of paragraphs 5.01.B and 5.02.

5.02 *Licensed Sureties and Insurers*

A. 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.

5.03 *Certificates of Insurance*

A. CONTRACTOR shall deliver to OWNER, with copies to each additional insured 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 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.

5.04 *CONTRACTOR's Liability Insurance*

A. CONTRACTOR shall purchase and maintain such liability and other 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:

1. claims under workers' compensation, disability benefits, and other similar employee benefit acts;
2. claims for damages because of bodily injury, occupational sickness or disease, or death of CONTRACTOR's employees;
3. claims for damages because of bodily injury, sickness or disease, or death of any person other than CONTRACTOR's employees;
4. claims for damages insured by reasonably available personal injury liability coverage which are sustained: (i) by any person as a result of an offense directly or indirectly related to the employment of such person by CONTRACTOR, or (ii) by any other person for any other reason;
5. 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

6. 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.

B. The policies of insurance so required by this paragraph 5.04 to be purchased and maintained shall:

1. with respect to insurance required by paragraphs 5.04.A.3 through 5.04.A.6 inclusive, include as additional insureds (subject to any customary exclusion in respect of professional liability) OWNER, ENGINEER, ENGINEER's Consultants, 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, partners, employees, agents, and other 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;
2. 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;
3. include completed operations insurance;
4. include contractual liability insurance covering CONTRACTOR's indemnity obligations under paragraphs 6.07, 6.11, and 6.20;
5. contain a provision or endorsement that the coverage afforded will not be canceled, materially changed or renewal refused until at least thirty 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);
6. 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

7. with respect to completed operations insurance, and any insurance coverage written on a claims-made basis, remain in effect for at least two years after final payment (and 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).

5.05 *OWNER's Liability Insurance*

A. 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.

5.06 *Property Insurance*

A. 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:

1. include the interests of OWNER, CONTRACTOR, Subcontractors, ENGINEER, ENGINEER's Consultants, and any other individuals or entities identified in the Supplementary Conditions, and the officers, directors, partners, employees, agents, and other consultants and subcontractors of each and any of them, each of whom is deemed to have an insurable interest and shall be listed as an additional insured;

2. be written on a Builder's Risk "all-risk" or open peril or special causes of loss policy form that shall at least include insurance for physical loss or damage to the Work, temporary buildings, false work, 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, and such other perils or causes of loss as may be specifically required by the Supplementary Conditions;

3. include expenses incurred in the repair or replacement of any insured property (including but

not limited to fees and charges of engineers and architects);

4. 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;

5. allow for partial utilization of the Work by OWNER;

6. include testing and startup; and

7. 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 additional insured to whom a certificate of insurance has been issued.

B. OWNER shall purchase and maintain such boiler and machinery 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, ENGINEER, ENGINEER's Consultants, and any other individuals or entities identified in the Supplementary Conditions, each of whom is deemed to have an insurable interest and shall be listed as an insured or additional insured.

C. All the policies of insurance (and the certificates or other evidence thereof) required to be purchased and maintained in accordance with 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 additional insured to whom a certificate of insurance has been issued and will contain waiver provisions in accordance with paragraph 5.07.

D. 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.

E. If CONTRACTOR requests in writing that other special insurance be included in the property insurance policies provided under paragraph 5.06, OWNER shall, if possible, include such insurance, and the cost thereof will be charged to CONTRACTOR by appropriate Change Order or Written Amendment. 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.

5.07 *Waiver of Rights*

A. OWNER and CONTRACTOR intend that all policies purchased in accordance with paragraph 5.06 will protect OWNER, CONTRACTOR, Subcontractors, ENGINEER, ENGINEER's Consultants, and all other individuals or entities identified in the Supplementary Conditions to be listed as insureds or additional insureds (and the officers, directors, partners, employees, agents, and other 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 additional insureds thereunder. OWNER and CONTRACTOR waive all rights against each other and their respective officers, directors, partners, employees, agents, and other 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, ENGINEER, ENGINEER's Consultants, and all other individuals or entities identified in the Supplementary Conditions to be listed as insureds or additional insureds (and the officers, directors, partners, employees, agents, and other 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.

B. OWNER waives all rights against CONTRACTOR, Subcontractors, ENGINEER, ENGINEER's Consultants, and the officers, directors, partners, employees, agents, and other consultants and subcontractors of each and any of them for:

1. 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 peril whether or not insured by OWNER; and

2. 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.

C. 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, ENGINEER, or ENGINEER's Consultants and the officers, directors, partners, employees, agents, and other consultants and subcontractors of each and any of them.

5.08 *Receipt and Application of Insurance Proceeds*

A. 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 insureds, 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 or Written Amendment.

B. 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.

5.09 *Acceptance of Bonds and Insurance; Option to Replace*

A. 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 2.05.C. 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.

5.10 *Partial Utilization, Acknowledgment of Property Insurer*

A. 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.

ARTICLE 6 - CONTRACTOR'S RESPONSIBILITIES

6.01 *Supervision and Superintendence*

A. 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, but 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. CONTRACTOR shall be responsible to see that the completed Work complies accurately with the Contract Documents.

B. At all times during the progress of the Work, CONTRACTOR shall assign a competent resident superintendent thereto who shall not be replaced without written notice to OWNER and ENGINEER except under extraordinary circumstances. The superintendent will be CONTRACTOR's representative at the Site and shall have authority to act on behalf of CONTRACTOR. All communications given to or received from the superintendent shall be binding on CONTRACTOR.

6.02 *Labor; Working Hours*

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

B. 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, and CONTRACTOR will not permit overtime work or the performance of Work on Saturday, Sunday, or any legal holiday without OWNER's written consent (which will not be unreasonably withheld) given after prior written notice to ENGINEER.

6.03 *Services, Materials, and Equipment*

A. Unless otherwise specified in the General Requirements, 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.

B. 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 warranties and guarantees specifically called for 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.

6.04 *Progress Schedule*

A. 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.

1. 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 (or Milestones). Such adjustments will conform generally to the progress schedule then in effect and additionally will comply with any provisions of the General Requirements applicable thereto.

2. Proposed adjustments in the progress schedule that will change the Contract Times (or Milestones) shall be submitted in accordance with the requirements of Article 12. Such adjustments may only be made by a Change Order or Written Amendment in accordance with Article 12.

6.05 *Substitutes and "Or-Equals"*

A. 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.

1. *"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:

a. in the exercise of reasonable judgment ENGINEER determines that: (i) it is at least equal in quality, durability, appearance, strength,

and design characteristics; (ii) it will reliably perform at least equally well the function imposed by the design concept of the completed Project as a functioning whole, and;

b. CONTRACTOR certifies that: (i) there is no increase in cost to the OWNER; and (ii) it will conform substantially, even with deviations, to the detailed requirements of the item named in the Contract Documents.

2. *Substitute Items*

a. 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.

b. CONTRACTOR shall submit sufficient information as provided below to allow ENGINEER to determine that 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.

c. The procedure for review by ENGINEER will be as set forth in paragraph 6.05.A.2.d, as supplemented in the General Requirements and as ENGINEER may decide is appropriate under the circumstances.

d. CONTRACTOR shall first 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 shall certify that the proposed substitute item will perform adequately the functions and achieve the results called for by the general design, be similar in substance to that specified, and be suited to the same use as that specified. The application will state the extent, if any, to which the use of the proposed substitute item will prejudice CONTRACTOR's achievement of Substantial Completion on time, whether or not 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 work on the Project) to adapt the design to the proposed substitute item and whether or not incorporation or use of the proposed substitute item in connection with

the Work is subject to payment of any license fee or royalty. All variations of the proposed substitute item from that specified will be identified in the application, and available engineering, sales, maintenance, repair, and replacement services will be indicated. The application will also 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, all of which will be considered by ENGINEER in evaluating the proposed substitute item. ENGINEER may require CONTRACTOR to furnish additional data about the proposed substitute item.

B. Substitute Construction Methods or Procedures:

If a specific means, method, technique, sequence, or procedure of construction is shown or indicated in and 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 procedure for review by ENGINEER will be similar to that provided in subparagraph 6.05.A.2.

C. 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 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 either a Change Order for a substitute or an approved Shop Drawing for an "or equal." ENGINEER will advise CONTRACTOR in writing of any negative determination.

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

E. ENGINEER's Cost Reimbursement: ENGINEER will record time required by ENGINEER and ENGINEER's Consultants in evaluating substitute proposed or submitted by CONTRACTOR pursuant to paragraphs 6.05.A.2 and 6.05.B and in making changes in the Contract Documents (or in the provisions of any other direct contract with OWNER for work on the Project) occasioned thereby. Whether or not ENGINEER approves a substitute item so proposed or submitted by CON-

TRACTOR, CONTRACTOR shall reimburse OWNER for the charges of ENGINEER and ENGINEER's Consultants for evaluating each such proposed substitute.

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

6.06 Concerning Subcontractors, Suppliers, and Others

A. 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.

B. 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 or Written Amendment signed. 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.

C. 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 it 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.

D. 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.

E. 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.

F. 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.

G. 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 an additional insured 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, ENGINEER's Consultants, and all other individuals or entities identified in the Supplementary Conditions to be listed as insureds or additional insureds (and the officers, directors, partners, employees, agents, and other 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.

6.07 *Patent Fees and Royalties*

A. 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, CONTRACTOR shall indemnify and hold harmless OWNER, ENGINEER, ENGINEER's Consultants, and the officers, directors, partners, employees or agents, and other consultants 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.

6.08 *Permits*

A. 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. CONTRACTOR shall pay all charges of utility owners for connections to the Work, and OWNER shall pay all charges of such utility owners for capital costs related thereto, such as plant investment fees.

6.09 *Laws and Regulations*

A. CONTRACTOR shall give all notices and 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.

B. 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 primary 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.

C. 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 may 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.

6.10 Taxes

A. 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.

6.11 Use of Site and Other Areas

A. Limitation on Use of Site and Other Areas

1. 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.

2. 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.

3. To the fullest extent permitted by Laws and Regulations, CONTRACTOR shall indemnify and hold harmless OWNER, ENGINEER, ENGINEER's Consultant, and the officers, directors, partners, employees, agents, and other consultants 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.

B. *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.

C. *Cleaning:* Prior to Substantial Completion of the Work CONTRACTOR shall clean the Site 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.

D. *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.

6.12 Record Documents

A. CONTRACTOR shall maintain in a safe place at the Site one record copy of all Drawings, Specifications, Addenda, Written Amendments, 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.

6.13 Safety and Protection

A. CONTRACTOR shall be solely responsible for initiating, maintaining and supervising all safety precautions and programs in connection with the Work. CONTRACTOR shall take all necessary precautions for the safety of, and shall provide the necessary protection to prevent damage, injury or loss to:

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

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

3. 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.

B. 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. 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 ENGINEER's Consultant, 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).

6.14 *Safety Representative*

A. 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.

6.15 *Hazard Communication Programs*

A. 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.

6.16 *Emergencies*

A. 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.

6.17 *Shop Drawings and Samples*

A. CONTRACTOR shall submit Shop Drawings to ENGINEER for review and approval in accordance with the acceptable schedule of Shop Drawings and Sample submittals. All submittals will be identified as ENGINEER may require and in the number of copies specified in the General Requirements. The 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.E.

B. CONTRACTOR shall also submit Samples to ENGINEER for review and approval in accordance with the acceptable schedule of Shop Drawings and Sample submittals. Each Sample will be identified clearly as to material, Supplier, pertinent data such as catalog numbers, and the use for which intended and otherwise as ENGINEER may require to enable ENGINEER to review the submittal for the limited purposes required by paragraph 6.17.E. The numbers of each Sample to be submitted will be as specified in the Specifications.

C. Where a Shop Drawing or Sample is required by the Contract Documents or the schedule of Shop Drawings and Sample submittals acceptable to ENGINEER as required by paragraph 2.07, 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.

D. *Submittal Procedures*

1. Before submitting each Shop Drawing or Sample, CONTRACTOR shall have determined and verified:

a. all field measurements, quantities, dimensions, specified performance criteria, installation requirements, materials, catalog numbers, and similar information with respect thereto;

b. all materials with respect to intended use, fabrication, shipping, handling, storage, assembly, and installation pertaining to the performance of the Work;

c. all information relative to means, methods, techniques, sequences, and procedures of construction and safety precautions and programs incident thereto; and

d. CONTRACTOR shall also have 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.

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

3. At the time of each submittal, CONTRACTOR shall give ENGINEER specific written notice of such variations, if any, that the Shop Drawing or Sample submitted may have from the requirements of the Contract Documents, such notice to be in a written communication separate from the submittal; and, in addition, shall cause a specific notation to be made on each Shop Drawing and Sample submitted to ENGINEER for review and approval of each such variation.

E. ENGINEER's Review

1. ENGINEER will timely review and approve Shop Drawings and Samples in accordance with the schedule of Shop Drawings and Sample 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.

2. 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.

3. ENGINEER's review and approval of Shop Drawings or Samples shall not relieve CONTRACTOR from responsibility for any variation from the requirements of the Contract Documents unless CONTRACTOR has in writing called ENGINEER's attention to each such variation at the time of each submittal as required by paragraph 6.17.D.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 approval; nor will any approval by ENGINEER relieve CONTRACTOR from responsibility for complying with the requirements of paragraph 6.17.D.1.

F. Resubmittal Procedures

1. 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.

6.18 Continuing the Work

A. 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.

6.19 CONTRACTOR's General Warranty and Guarantee

A. CONTRACTOR warrants and guarantees to OWNER, ENGINEER, and ENGINEER's Consultants that all Work will be in accordance with the Contract Documents and will not be defective. CONTRACTOR's warranty and guarantee hereunder excludes defects or damage caused by:

1. 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

2. normal wear and tear under normal usage.

B. 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:

1. observations by ENGINEER;

2. recommendation by ENGINEER or payment by OWNER of any progress or final payment;

3. the issuance of a certificate of Substantial Completion by ENGINEER or any payment related thereto by OWNER;

4. use or occupancy of the Work or any part thereof by OWNER;

5. any acceptance by OWNER or any failure to do so;

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

7. any inspection, test, or approval by others; or

8. any correction of defective Work by OWNER.

6.20 *Indemnification*

A. To the fullest extent permitted by Laws and Regulations, CONTRACTOR shall indemnify and hold harmless OWNER, ENGINEER, ENGINEER's Consultants, and the officers, directors, partners, employees, agents, and other 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:

1. 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; and

2. is caused in whole or in part 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, regardless of whether or not caused in part by any negligence or omission of an individual or entity indemnified hereunder or whether liability is imposed upon such indemnified party by Laws and Regulations regardless of the negligence of any such individual or entity.

B. In any and all claims against OWNER or ENGINEER or any of their respective consultants, agents, officers, directors, partners, or employees 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.

C. The indemnification obligations of CONTRACTOR under paragraph 6.20.A shall not extend to the liability of ENGINEER and ENGINEER's Consultants or to the officers, directors, partners, employees, agents, and other consultants and subcontractors of each and any of them arising out of:

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

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

ARTICLE 7 - OTHER WORK

7.01 *Related Work at Site*

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

1. written notice thereof will be given to CONTRACTOR prior to starting any such other work; and

2. 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.

B. CONTRACTOR shall afford each other contractor who is a party to such a direct contract and each utility owner (and OWNER, if OWNER is performing the other work with OWNER's employees) proper and safe access to the Site and a reasonable opportunity for the introduction and storage of materials and equipment and the execution of such other work and shall properly coordinate the Work with theirs. Unless otherwise provided in the Contract Documents, 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 their work and will only cut or alter their 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.

C. 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.

7.02 *Coordination*

A. 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:

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

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

3. the extent of such authority and responsibilities will be provided.

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

ARTICLE 8 - OWNER'S RESPONSIBILITIES

8.01 *Communications to Contractor*

A. Except as otherwise provided in these General Conditions, OWNER shall issue all communications to CONTRACTOR through ENGINEER.

8.02 *Replacement of ENGINEER*

A. 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.

8.03 *Furnish Data*

A. OWNER shall promptly furnish the data required of OWNER under the Contract Documents.

8.04 *Pay Promptly When Due*

A. OWNER shall make payments to CONTRACTOR promptly when they are due as provided in paragraphs 14.02.C and 14.07.C.

8.05 *Lands and Easements; Reports and Tests*

A. OWNER's duties in respect of 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 in or relating to existing surface or subsurface structures at or contiguous to the Site that have been utilized by ENGINEER in preparing the Contract Documents.

8.06 *Insurance*

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

8.07 *Change Orders*

A. OWNER is obligated to execute Change Orders as indicated in paragraph 10.03.

8.08 *Inspections, Tests, and Approvals*

A. OWNER's responsibility in respect to certain inspections, tests, and approvals is set forth in paragraph 13.03.B.

8.09 *Limitations on OWNER's Responsibilities*

A. 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.

8.10 *Undisclosed Hazardous Environmental Condition*

A. OWNER's responsibility in respect to an undisclosed Hazardous Environmental Condition is set forth in paragraph 4.06.

8.11 *Evidence of Financial Arrangements*

A. If and to the extent OWNER has agreed to furnish CONTRACTOR reasonable evidence that financial arrangements have been made to satisfy OWNER's obligations under the Contract Documents, OWNER's responsibility in respect thereof will be as set forth in the Supplementary Conditions.

ARTICLE 9 - ENGINEER'S STATUS DURING CONSTRUCTION

9.01 *OWNER'S Representative*

A. 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 and will not be changed without written consent of OWNER and ENGINEER.

9.02 *Visits to Site*

A. 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.

B. ENGINEER's visits and observations are subject to all the limitations on ENGINEER's authority and responsibility set forth in paragraph 9.10, and 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.

9.03 *Project Representative*

A. If OWNER and ENGINEER agree, ENGINEER will furnish a Resident Project Representative to assist ENGINEER in providing more extensive observation of the Work. The responsibilities and authority and limitations thereon of any such Resident Project Representative and assistants will be as provided in paragraph 9.10 and in the Supplementary Conditions. 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.

9.04 *Clarifications and Interpretations*

A. ENGINEER will issue with reasonable promptness such written clarifications or interpretations of the requirements of the Contract Documents as ENGINEER may determine necessary, which shall be consistent with the intent of and reasonably inferable from the Contract Documents. Such written clarifications and interpretations will be binding on OWNER and CONTRACTOR. 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, that should be allowed as a result of a written clarification or interpretation, a Claim may be made therefor as provided in paragraph 10.05.

9.05 *Authorized Variations in Work*

A. 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 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, as a result of a Field Order, a Claim may be made therefor as provided in paragraph 10.05.

9.06 *Rejecting Defective Work*

A. ENGINEER will have authority to disapprove or 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.

9.07 *Shop Drawings, Change Orders and Payments*

A. In connection with ENGINEER's authority as to Shop Drawings and Samples, see paragraph 6.17.

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

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

9.08 *Determinations for Unit Price Work*

A. 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.

9.09 *Decisions on Requirements of Contract Documents and Acceptability of Work*

A. ENGINEER will be the initial interpreter of the requirements of the Contract Documents and judge of the acceptability of the Work thereunder. Claims, disputes and other matters relating to the acceptability of the Work, the quantities and classifications of Unit Price Work, the interpretation of the requirements of the Contract Documents pertaining to the performance of the Work, and Claims seeking changes in the Contract Price or Contract Times will be referred initially to ENGINEER in writing, in accordance with the provisions of paragraph 10.05, with a request for a formal decision.

B. When functioning as interpreter and judge under this paragraph 9.09, 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. The rendering of a decision by ENGINEER pursuant to this paragraph 9.09 with respect to any such Claim, dispute, or other matter (except any which have been waived by the making or acceptance of final payment as provided in paragraph 14.07) will be a condition precedent to any exercise by OWNER or CONTRACTOR of such rights or remedies as either may otherwise have under the Contract Documents or by Laws or Regulations in respect of any such Claim, dispute, or other matter.

9.10 *Limitations on ENGINEER's Authority and Responsibilities*

A. 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.

B. 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.

C. 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.

D. 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.

E. The limitations upon authority and responsibility set forth in this paragraph 9.10 shall also apply to ENGINEER's Consultants, Resident Project Representative, and assistants.

ARTICLE 10 - CHANGES IN THE WORK; CLAIMS

10.01 *Authorized Changes in the Work*

A. Without invalidating the Agreement 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 Written Amendment, 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).

B. 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.

10.02 *Unauthorized Changes in the Work*

A. 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.B.

10.03 *Execution of Change Orders*

A. OWNER and CONTRACTOR shall execute appropriate Change Orders recommended by ENGINEER (or Written Amendments) covering:

1. 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;

2. 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

3. 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.

10.04 *Notification to Surety*

A. If notice 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) is required by the provisions of any Bond to be

given to a surety, 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.

10.05 *Claims and Disputes*

A. *Notice:* Written notice stating the general nature of each Claim, dispute, or other matter 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. Notice of the amount or extent of the Claim, dispute, or other matter 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, dispute, or other matter). 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 Time 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).

B. *ENGINEER's Decision:* ENGINEER will render a formal decision in writing within 30 days after receipt of the last submittal of the claimant or the last submittal of the opposing party, if any. ENGINEER's written decision on such Claim, dispute, or other matter will be final and binding upon OWNER and CONTRACTOR unless:

1. an appeal from ENGINEER's decision is taken within the time limits and in accordance with the dispute resolution procedures set forth in Article 16; or
2. if no such dispute resolution procedures have been set forth in Article 16, a written notice of intention to appeal from ENGINEER's written decision is delivered by OWNER or CONTRACTOR to the other and to ENGINEER within 30 days after the date of such decision, and a formal proceeding is instituted by the appealing party in a forum of competent jurisdiction within 60 days after the date of such decision or within 60 days after Substantial Completion, whichever is later (unless otherwise agreed in writing by OWNER and CONTRACTOR), to exercise such rights or remedies as the appealing party may have with

respect to such Claim, dispute, or other matter in accordance with applicable Laws and Regulations.

C. If ENGINEER does not render a formal decision in writing within the time stated in paragraph 10.05.B, a decision denying the Claim in its entirety shall be deemed to have been issued 31 days after receipt of the last submittal of the claimant or the last submittal of the opposing party, if any.

D. No Claim for an adjustment in Contract Price or Contract Times (or Milestones) will be valid if not submitted in accordance with this paragraph 10.05.

ARTICLE 11 - COST OF THE WORK; CASH ALLOWANCES; UNIT PRICE WORK

11.01 *Cost of the Work*

A. *Costs Included:* The term Cost of the Work means the sum of all costs 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 include only the following items, and shall not include any of the costs itemized in paragraph 11.01.B.

1. 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 at the Site. 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.

2. 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.

3. 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.

4. 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.

5. Supplemental costs including the following:

a. The proportion of necessary transportation, travel, and subsistence expenses of CONTRACTOR's employees incurred in discharge of duties connected with the Work.

b. 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.

c. 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.

d. Sales, consumer, use, and other similar taxes related to the Work, and for which CONTRACTOR is liable, imposed by Laws and Regulations.

e. 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.

f. 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.

g. The cost of utilities, fuel, and sanitary facilities at the Site.

h. Minor expenses such as telegrams, long distance telephone calls, telephone service at the Site, expressage, and similar petty cash items in connection with the Work.

i. When the Cost of the Work is used to determine the value of a Change Order or of a Claim, the cost of premiums for additional Bonds and insurance required because of the changes in the Work or caused by the event giving rise to the Claim.

j. When all the Work is performed on the basis of cost-plus, the costs of premiums for all Bonds

and insurance CONTRACTOR is required by the Contract Documents to purchase and maintain.

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

1. Payroll costs and other compensation of CONTRACTOR's officers, executives, principals (of partnerships and sole proprietorships), general 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.

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

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

4. 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.

5. 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 and 11.01.B.

C. *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.

D. *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.

11.02 *Cash Allowances*

A. 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 as may be acceptable to OWNER and ENGINEER. CONTRACTOR agrees that:

1. the 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

2. CONTRACTOR's costs for unloading and handling on the Site, labor, installation costs, overhead, profit, and other expenses contemplated for the 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.

B. 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.

11.03 *Unit Price Work*

A. 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 9.08.

B. 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.

C. OWNER or CONTRACTOR may make a Claim for an adjustment in the Contract Price in accordance with paragraph 10.05 if:

1. 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

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

3. if 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.

ARTICLE 12 - CHANGE OF CONTRACT PRICE; CHANGE OF CONTRACT TIMES

12.01 *Change of Contract Price*

A. The Contract Price may only be changed by a Change Order or by a Written Amendment. 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.

B. 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:

1. 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

2. 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

3. 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).

C. *CONTRACTOR's Fee*: The CONTRACTOR's fee for overhead and profit shall be determined as follows:

1. a mutually acceptable fixed fee; or

2. 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:

a. for costs incurred under paragraphs 11.01.A.1 and 11.01.A.2, the CONTRACTOR's fee shall be 15 percent;

b. for costs incurred under paragraph 11.01.A.3, the CONTRACTOR's fee shall be five percent;

c. 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 paragraph 12.01.C.2.a 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;

d. 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;

e. 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

f. 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.

12.02 *Change of Contract Times*

A. The Contract Times (or Milestones) may only be changed by a Change Order or by a Written Amendment. Any Claim for an adjustment in the Contract Times (or Milestones) 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.

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

12.03 *Delays Beyond CONTRACTOR's Control*

A. Where CONTRACTOR is prevented from completing any part of the Work within the Contract Times (or Milestones) due to delay beyond the control of CONTRACTOR, the Contract Times (or Milestones) 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.

12.04 *Delays Within CONTRACTOR's Control*

A. The Contract Times (or Milestones) will not be extended due to 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.

12.05 *Delays Beyond OWNER's and CONTRACTOR's Control*

A. Where CONTRACTOR is prevented from completing any part of the Work within the Contract Times (or Milestones) due to delay beyond the control of both OWNER and CONTRACTOR, an extension of the Contract Times (or Milestones) in an amount equal to the time lost due to such delay shall be CONTRACTOR's sole and exclusive remedy for such delay.

12.06 *Delay Damages*

A. In no event shall OWNER or ENGINEER be liable to CONTRACTOR, any Subcontractor, any Supplier, or any other person or organization, or to any surety for or employee or agent of any of them, for damages arising out of or resulting from:

1. delays caused by or within the control of CONTRACTOR; or
2. delays beyond the control of both OWNER and CONTRACTOR including but not

limited to fires, floods, epidemics, abnormal weather conditions, acts of God, or acts or neglect by utility owners or other contractors performing other work as contemplated by Article 7.

B. Nothing in this paragraph 12.06 bars a change in Contract Price pursuant to this Article 12 to compensate CONTRACTOR due to delay, interference, or disruption directly attributable to actions or inactions of OWNER or anyone for whom OWNER is responsible.

ARTICLE 13 - TESTS AND INSPECTIONS;
CORRECTION, REMOVAL OR ACCEPTANCE OF
DEFECTIVE WORK

13.01 *Notice of Defects*

A. Prompt notice of all defective Work of which OWNER or ENGINEER has actual knowledge will be given to CONTRACTOR. All defective Work may be rejected, corrected, or accepted as provided in this Article 13.

13.02 *Access to Work*

A. OWNER, ENGINEER, ENGINEER's Consultants, 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, inspecting, and testing. CONTRACTOR shall provide them proper and safe conditions for such access and advise them of CONTRACTOR's Site safety procedures and programs so that they may comply therewith as applicable.

13.03 *Tests and Inspections*

A. 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.

B. 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:

1. for inspections, tests, or approvals covered by paragraphs 13.03.C and 13.03.D below;
2. that costs incurred in connection with tests or inspections conducted pursuant to paragraph 13.04.B shall be paid as provided in said paragraph 13.04.B; and

3. as otherwise specifically provided in the Contract Documents.

C. 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.

D. 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.

E. 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, it must, if requested by ENGINEER, be uncovered for observation.

F. 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.

13.04 *Uncovering Work*

A. 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.

B. 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 such 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, however, such 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 Milestones), 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.

13.05 *OWNER May Stop the Work*

A. 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.

13.06 *Correction or Removal of Defective Work*

A. 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).

13.07 *Correction Period*

A. If within one year after the date of Substantial Completion or such longer period of time as may be prescribed by Laws or Regulations or 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: (i) repair such defective land or areas, or (ii) 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 (iii) 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 such 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, and 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.

B. 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 or by Written Amendment.

C. 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.

D. 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.

13.08 *Acceptance of Defective Work*

A. 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 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.

13.09 *OWNER May Correct Defective Work*

A. 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 and remedy any such deficiency.

B. In exercising the rights and remedies under this paragraph, OWNER shall proceed expeditiously. In connection with such corrective and 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.

C. 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.

D. CONTRACTOR shall not be allowed an extension of the Contract Times (or Milestones) 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

14.01 *Schedule of Values*

A. 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.

14.02 *Progress Payments*

A. *Applications for Payments*

1. At least 20 days before the date established 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.

2. 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.

3. The amount of retainage with respect to pro-gress payments will be as stipulated in the Agreement.

B. *Review of Applications*

1. 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.

2. 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 on the Site 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, to the results of any subsequent tests called for in the Contract Documents, to a final determination of quantities and classifications for Unit Price Work under paragraph 9.08, and to 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.

3. By recommending any such payment ENGINEER will not thereby be deemed to have represented that: (i) 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 (ii) that 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.

4. 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 to supervise, direct, or control the Work or for the means, methods, techniques, sequences, or procedures of construction, or the safety precautions and programs incident thereto, or for CONTRACTOR's failure to comply with Laws and Regulations applicable to CONTRACTOR's performance of the Work. Additionally, said review or recommendation will not impose responsibility on ENGINEER to make any examination to ascertain how or for what purposes CONTRACTOR has used the moneys paid on account of the Contract Price, or to determine that title to any of the Work, materials, or equipment has passed to OWNER free and clear of any Liens.

5. 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 referred to 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:

- a. the Work is defective, or completed Work has been damaged, requiring correction or replacement;
- b. the Contract Price has been reduced by Written Amendment or Change Orders;
- c. OWNER has been required to correct defective Work or complete Work in accordance with paragraph 13.09; or
- d. ENGINEER has actual knowledge of the occurrence of any of the events enumerated in paragraph 15.02.A.

C. *Payment Becomes Due*

1. 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.

D. *Reduction in Payment*

1. OWNER may refuse to make payment of the full amount recommended by ENGINEER because:

a. claims have been made against OWNER on account of CONTRACTOR's performance or furnishing of the Work;

b. 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;

c. there are other items entitling OWNER to a set-off against the amount recommended; or

d. 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.

2. If OWNER refuses to make payment of the full amount recommended by ENGINEER, OWNER must 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 corrects to OWNER's satisfaction the reasons for such action.

3. If it is subsequently determined 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.

14.03 *CONTRACTOR's Warranty of Title*

A. 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.

14.04 *Substantial Completion*

A. 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 thereafter, 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 prepare and 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.

B. OWNER shall have the right to exclude CONTRACTOR from the Site after the date of Substantial Completion, but OWNER shall allow CONTRACTOR reasonable access to complete or correct items on the tentative list.

14.05 *Partial Utilization*

A. Use by OWNER at OWNER's option of 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, may be accomplished prior to Substantial Completion of all the Work subject to the following conditions.

1. OWNER at any time may request CONTRACTOR in writing to permit OWNER to use any such part of the Work which OWNER believes to be ready for its intended use and substantially complete. If CONTRACTOR agrees that such part of the Work is substantially complete, CONTRACTOR will certify to OWNER and ENGINEER that such part of the Work is substantially complete and request ENGINEER to issue a certificate of Substantial Completion 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.

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

14.06 *Final Inspection*

A. 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.

14.07 *Final Payment*

A. *Application for Payment*

1. 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.

2. The final Application for Payment shall be accompanied (except as previously delivered) by: (i) all documentation called for in the Contract Documents, including but not limited to the evidence of insurance required by subparagraph 5.04.B.7; (ii) consent of the surety, if any, to final payment; and (iii) 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.

3. 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 or OWNER's property might in any way be responsible 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.

B. *Review of Application and Acceptance*

1. 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 docu-

mentation 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.

C. *Payment Becomes Due*

1. Thirty days after the presentation to OWNER of the Application for Payment and accompanying documentation, the amount recommended by ENGINEER will become due and, when due, will be paid by OWNER to CONTRACTOR.

14.08 *Final Completion Delayed*

A. 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 and recommendation of ENGINEER, and without terminating the Agreement, 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.

14.09 *Waiver of Claims*

A. The making and acceptance of final payment will constitute:

1. 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

2. a waiver of all Claims by CONTRACTOR against OWNER other than those previously made in writing which are still unsettled.

ARTICLE 15 - SUSPENSION OF WORK AND TERMINATION

15.01 OWNER May Suspend Work

A. 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 allowed 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.

15.02 OWNER May Terminate for Cause

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

1. 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);

2. CONTRACTOR's disregard of Laws or Regulations of any public body having jurisdiction;

3. CONTRACTOR's disregard of the authority of ENGINEER; or

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

B. If one or more of the events identified in paragraph 15.02.A occur, OWNER may, after giving

CONTRACTOR (and the surety, if any) seven days written notice, 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 finish the Work as OWNER may deem expedient. In such case, CONTRACTOR shall not be entitled to receive any further payment until the Work is finished. 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.

C. 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.

15.03 OWNER May Terminate For Convenience

A. Upon seven days written notice to CONTRACTOR and ENGINEER, OWNER may, without cause and without prejudice to any other right or remedy of OWNER, elect to terminate the Contract. In such case, CONTRACTOR shall be paid (without duplication of any items):

1. for 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;

2. for 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;

3. for 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

4. for reasonable expenses directly attributable to termination.

B. 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.

15.04 *CONTRACTOR May Stop Work or Terminate*

A. If, through no act or fault of CONTRACTOR, the Work is suspended for more than 90 consecutive days by OWNER or under an order of court or other public authority, or ENGINEER fails to act on any Application for Payment within 30 days after it is submitted, or 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.

ARTICLE 16 - DISPUTE RESOLUTION

16.01 *Methods and Procedures*

A. Dispute resolution methods and procedures, if any, shall be as set forth in the Supplementary Conditions. If no method and procedure has been set forth, and subject

to the provisions of paragraphs 9.09 and 10.05, OWNER and CONTRACTOR may exercise such rights or remedies as either may otherwise have under the Contract Documents or by Laws or Regulations in respect of any dispute.

ARTICLE 17 - MISCELLANEOUS

17.01 *Giving Notice*

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

17.02 *Computation of Times*

A. 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.

17.03 *Cumulative Remedies*

A. 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, and 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.

17.04 *Survival of Obligations*

A. 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 Agreement.

17.05 *Controlling Law*

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

DOCUMENT 00800-1

SUPPLEMENTARY CONDITIONS TO GENERAL CONDITIONS

TABLE OF CONTENTS

| | Page |
|---|-------------|
| DOCUMENT 00800 | 1 |
| SUPPLEMENTARY CONDITIONS | 1 |
| Article 1 — DEFINITIONS AND TERMINOLOGY | 3 |
| Article 2 — PRELIMINARY MATTERS | 3 |
| Article 3 — CONTRACT DOCUMENTS: INTENT, REQUIREMENTS, REUSE..... | 8 |
| Article 4 — COMMENCEMENT AND PROGRESS OF THE WORK..... | 8 |
| Article 5 — SITE, SUBSURFACE AND PHYSICAL CONDITIONS, HAZARDOUS ENVIRONMENTAL CONDITIONS..... | 8 |
| Article 6 — BONDS AND INSURANCE | 8 |
| Article 7 — CONTRACTOR’S RESPONSIBILITIES..... | 10 |
| Article 8 — OTHER WORK AT THE SITE | 11 |
| Article 9 — OWNER’S RESPONSIBILITIES | 11 |
| Article 10 — ENGINEER’S STATUS DURING CONSTRUCTION | 11 |
| Article 11 — CHANGES TO THE CONTRACT | 13 |
| Article 12 — CLAIMS..... | 13 |
| Article 13 — COST OF WORK; ALLOWANCES, UNIT PRICE WORK | 13 |
| Article 14 — TESTS AND INSPECTIONS; CORRECTION, REMOVAL, OR ACCEPTANCE OF DEFECTIVE WORK..... | 14 |
| Article 15 — PAYMENTS TO CONTRACTOR, SET OFFS; COMPLETIONS; CORRECTION PERIOD..... | 14 |
| Article 16 — SUSPENSION OF WORK AND TERMINATION | 14 |
| Article 17 — FINAL RESOLUTIONS OF DISPUTES | 14 |
| Article 18 — MISCELLANEOUS | 14 |

These Supplementary Conditions amend or supplement Document 00700 - General Conditions. The General Conditions remain in full force and effect except as amended.

The terms used in these Supplementary Conditions have the meanings stated in the General Conditions. Additional terms used in these Supplementary Conditions have the meanings stated below, which are applicable to both the singular and plural thereof.

The address system used in these Supplementary Conditions is the same as the address system used in the General Conditions, with the prefix "SC" added—for example, "Paragraph SC-4.05."

ARTICLE 1 — DEFINITIONS AND TERMINOLOGY

1.01 Defined Terms

SC-1.01 Add to Paragraph 1.01.A by inserting the following as new numbered items in their proper alphabetical positions:

Construction Manager - The individual or entity will be responsible for administration of the Contract as a representative of the Owner. Owner has designated Burgess & Niple Engineers to provide construction management services with duties, responsibilities, and limitations therein as required by Contract.

Final Completion - The Work is complete when it is ready for final payment as established by the Engineer's written recommendation of final payment as set forth in Paragraph 15.06.

ARTICLE 2 — PRELIMINARY MATTERS

2.09 Electronic Transmittals

SC-2.09 Delete Paragraphs 2.06.B and 2.06.C in their entirety and insert the following in their place:

B. Electronic Documents Protocol: The parties shall conform to the following provisions in Paragraphs 2.06.B and 2.06.C, together referred to as the Electronic Documents Protocol ("EDP" or "Protocol") for exchange of electronic transmittals.

1. Basic Requirements

- a. To the fullest extent practical, the parties agree to and will transmit and accept Electronic Documents in an electronic or digital format using the procedures described in this Protocol. Use of the Electronic Documents and any information contained therein is subject to the requirements of this Protocol and other provisions of the Contract.
- b. The contents of the information in any Electronic Document will be the responsibility of the transmitting party.
- c. Electronic Documents as exchanged by this Protocol may be used in the same manner as the printed versions of the same documents that are exchanged using non-electronic format and methods, subject to the same governing requirements, limitations, and restrictions, set forth in the Contract Documents.
- d. Except as otherwise explicitly stated in this Document, the terms of this Protocol will be incorporated into any other agreement or subcontract

between a party and any third party for any portion of the Work on the Project, or any Project-related services, where that third party is, either directly or indirectly, required to exchange Electronic Documents with a party or with Engineer. Nothing herein will modify the requirements of the Contract regarding communications between and among the parties and their subcontractors and consultants.

- e. When transmitting Electronic Documents, the transmitting party makes no representations as to long term compatibility, usability, or readability of the items resulting from the receiving party's use of software application packages, operating systems, or computer hardware differing from those established in this Protocol.
 - f. Nothing herein negates any obligation 1) in the Contract to create, provide, or maintain an original printed record version of Drawings and Specifications, signed and sealed according to applicable Laws and Regulations; 2) to comply with any applicable Law or Regulation governing the signing and sealing of design documents or the signing and electronic transmission of any other documents; or 3) to comply with the notice requirements of General Conditions, Paragraph 18.01.
2. System Infrastructure for Electronic Document Exchange
- a. Each party will provide hardware, operating system(s) software, internet, e-mail, and large file transfer functions ("System Infrastructure") at its own cost and sufficient for complying with the EDP requirements. With the exception of minimum standards set forth in this EDP, and any explicit system requirements specified by attachment to this EDP, it is the obligation of each party to determine, for itself, its own System Infrastructure.
 - 1) The maximum size of an email attachment for exchange of Electronic Documents under this EDP is 50 MB. Attachments larger than that may be exchanged using large file transfer functions or physical media.
 - 2) Each Party assumes full and complete responsibility for any and all of its own costs, delays, deficiencies, and errors associated with converting, translating, updating, verifying, licensing, or otherwise enabling its System Infrastructure, including operating systems and software, for use with respect to this EDP.
 - b. Each party is responsible for its own system operations, security, back-up, archiving, audits, printing resources, and other Information Technology ("IT") for maintaining operations of its System Infrastructure during the Project, including coordination with the party's individual(s) or entity responsible for managing its System Infrastructure and capable of addressing routine communications and other IT issues affecting the exchange of Electronic Documents.
 - c. Each party will operate and maintain industry-standard, industry-accepted, ISO-standard, commercial-grade security software and systems that are intended to protect the other party from: software viruses and other malicious software like worms, Trojans, adware; data breaches; loss of confidentiality; and other threats in the transmission to or storage of

information from the other parties, including transmission of Electronic Documents by physical media such as CD/DVD/flash drive/hard drive. To the extent that a party maintains and operates such security software and systems, it shall not be liable to the other party for any breach of system security.

- d. In the case of disputes, conflicts, or modifications to the EDP required to address issues affecting System Infrastructure, the parties shall cooperatively resolve the issues; but, failing resolution, the Owner is authorized to make and require reasonable and necessary changes to the EDP to effectuate its original intent. If the changes cause additional cost or time to Contractor, not reasonably anticipated under the original EDP, Contractor may seek an adjustment in price or time under the appropriate process in the Contract.
- e. Each party is responsible for its own back-up and archive of documents sent and received during the term of the contract under this EDP, unless this EDP establishes a Project document archive, either as part of a mandatory Project website or other communications protocol, upon which the parties may rely for document archiving during the specified term of operation of such Project document archive. Further, each party remains solely responsible for its own post-Project back-up and archive of Project documents after the term of the Contract, or after termination of the Project document archive, if one is established, for as long as required by the Contract and as each party deems necessary for its own purposes.
- f. If a receiving party receives an obviously corrupted, damaged, or unreadable Electronic Document, the receiving party will advise the sending party of the incomplete transmission.
- g. The parties will bring any non-conforming Electronic Documents into compliance with the EDP. The parties will attempt to complete a successful transmission of the Electronic Document or use an alternative delivery method to complete the communication.
- h. The Owner will operate a Project information management system (also referred to in this EDP as "Project Website") for use of Owner, Engineer and Contractor during the Project for exchange and storage of Project-related communications and information. Except as otherwise provided in this EDP or the General Conditions, use of the Project Website by the parties as described in this Paragraph will be mandatory for exchange of Project documents, communications, submittals, and other Project-related information. The following conditions and standards will govern use of the Project Website:
 - 1) Describe the period of time during which the Project Website will be operated and be available for reliance by the parties;
 - 2) Provide any minimum system infrastructure, software licensing and security standards for access to and use of the Project Website;
 - 3) Describe the types and extent of services to be provided at the Project Website (such as large file transfer, email, communication and document archives, etc.); and

- 4) Include any other Project Website attributes that may be pertinent to Contractor's use of the facility and pricing of such use.

C. Software Requirements for Electronic Document Exchange; Limitations

1. Each party will acquire the software and software licenses necessary to create and transmit Electronic Documents and to read and to use any Electronic Documents received from the other party (and if relevant from third parties), using the software formats required in this section of the EDP.
 - a. Prior to using any updated version of the software required in this section for sending Electronic Documents to the other party, the originating party will first notify and receive concurrence from the other party for use of the updated version or adjust its transmission to comply with this EDP.
2. The parties agree not to intentionally edit, reverse engineer, decrypt, remove security or encryption features, or convert to another format for modification purposes any Electronic Document or information contained therein that was transmitted in a software data format, including Portable Document Format (PDF), intended by sender not to be modified, unless the receiving party obtains the permission of the sending party or is citing or quoting excerpts of the Electronic Document for Project purposes.
3. Software and data formats for exchange of Electronic Documents will conform to the requirements set forth in Table 1, including software versions, if listed.

Table 1. Software Requirements for Electronic Document Exchange

| Item | Electronic Documents | Transmittal Means | Data Format | Note (1) |
|------|---|-------------------|-------------|----------|
| a.1 | General communications, transmittal covers, meeting notices and responses to general information requests for which there is no specific prescribed form. | EADOC | EADOC | |
| a.2 | Meeting agendas, meeting minutes, RFI's and responses to RFI's, and Contract forms. | EADOC | PDF | (2) |
| a.3 | Contactors Submittals (Shop Drawings, "or equal" requests, substitution requests, documentation accompanying Sample submittals and other submittals) to Owner and Engineer, and Owner's and Engineer's responses to Contractor's Submittals, Shop Drawings, correspondence, and Applications for Payment. | EADOC | PDF | |

| Item | Electronic Documents | Transmittal Means | Data Format | Note (1) |
|---|---|-----------------------|-------------|----------|
| a.4 | Correspondence; milestone and final version Submittals of reports, layouts, Drawings, maps, calculations and spreadsheets, Specifications, Drawings and other Submittals from Contractor to Owner or Engineer and for responses from Engineer and Owner to Contractor regarding Submittals. | EADOC | PDF | |
| a.5 | Layouts and drawings to be submitted to Owner for future use and modification. | Email with Attachment | DWG | |
| a.6 | Correspondence, reports and Specifications to be submitted to Owner for future word processing use and modification. | Email with Attachment | DOC | |
| a.7 | Spreadsheets and data to be submitted to Owner for future data processing use and modification. | Email with Attachment | EXC | |
| a.8 | Database files and data to be submitted to Owner for future data processing use and modification. | Email with Attachment | DB | |
| <p>Notes:</p> <ol style="list-style-type: none"> 1. All exchanges and uses of transmitted data are subject to the appropriate provisions of Contract Documents. 2. Transmittal of written notices is governed by General Conditions, Paragraph 18.01. | | | | |
| <p>Key:</p> <p>DB Microsoft® Access .mdb format, Version 2013</p> <p>DGN Microstation .dgn format, Version V8i</p> <p>DOC Microsoft® Word .docx format, Version 2013</p> <p>DWG Autodesk® AutoCAD .dwg format, Version 2024</p> <p>EADOC Web-Based Construction Document Management System</p> <p>Email Standard Email formats (.htm, .rtf, or .txt). Do not use stationery formatting or other features that impair legibility of content on screen or in printed copies</p> <p>EXC Microsoft® Excel .xls or .xml format, Version 2013</p> <p>LFE Agreed upon Large File Exchange method (FTP, CD, DVD, hard drive)</p> <p>PD Portable Document Format readable by Adobe® Acrobat Reader, Version 2020 or later</p> | | | | |

ARTICLE 3 — CONTRACT DOCUMENTS: INTENT, REQUIREMENTS, REUSE

Not used.

ARTICLE 4 — COMMENCEMENT AND PROGRESS OF THE WORK

4.05 Delays in Contractor's Progress – refer to General Conditions.

ARTICLE 5 — SITE, SUBSURFACE AND PHYSICAL CONDITIONS, HAZARDOUS ENVIRONMENTAL CONDITIONS

5.01 Availability of Lands

SC-5.01 Add the following new paragraph immediately after Paragraph 5.01.C:

- D. Any Work performed in public rights-of-way, in addition to conforming to the Contract Documents, shall be done in accordance with the requirements of the permit issued by the public agency in whose right-of-way the Work is located.

ARTICLE 6 — BONDS AND INSURANCE

6.01 Performance, Payment, and Other Bonds

SC-6.01 Add the following new paragraphs immediately after Paragraph 6.01.A.3.:

1. Contractor shall furnish a fully executed warranty bond issued in the form of Document 00612 - Warranty Bond prior to or with the final application for payment, and in any event no later than 11 months after Substantial Completion.
2. The warranty bond must be in a bond amount of 15 percent of the final Contract Price.
The warranty bond period will extend to the end of the correction period, as specified in SC 15.08.A.
3. The warranty bond must be issued by the same surety that issues the performance bond.

6.03 Contractor's Insurance

SC-6.03 Add the following new paragraphs immediately after Paragraph 6.03.C.5:

- D. Other Additional Insureds: As a supplement to the provisions of General Conditions, Paragraph 6.03.C, the commercial general liability, automobile liability, umbrella or excess, pollution liability, and unmanned aerial vehicle liability policies must include as additional insureds (in addition to Owner and Engineer).
- E. Workers' Compensation and Employer's Liability: Contractor shall purchase and maintain workers' compensation and employer's liability insurance, including, as applicable, United States Longshoreman and Harbor Workers' Compensation Act, Jones Act, stop-gap employer's liability coverage for monopolistic states, and foreign voluntary workers' compensation (from available sources, notwithstanding the jurisdictional requirement of Paragraph 6.02.B of the General Conditions).
- F. Commercial General Liability—Claims Covered: Contractor shall purchase and maintain commercial general liability insurance, covering all operations by or on behalf of Contractor, on an occurrence basis, against claims for:

1. damages because of bodily injury, sickness or disease, or death of any person other than Contractor's employees,
 2. damages insured by reasonably available personal injury liability coverage, and
 3. damages because of injury to or destruction of tangible property wherever located, including loss of use resulting therefrom.
- G. Commercial General Liability—Form and Content: Contractor's commercial liability policy must be written on a 1996 (or later) Insurance Services Organization, Inc. (ISO) commercial general liability form (occurrence form) and include the following coverages and endorsements:
1. Products and completed operations coverage.
 - a. Such insurance must be maintained for 3 years after final payment.
 - b. Contractor shall furnish Owner and each other additional insured (as identified in the Supplementary Conditions or elsewhere in the Contract) evidence of continuation of such insurance at final payment and 3 years thereafter.
 2. Blanket contractual liability coverage, including but not limited to coverage of Contractor's contractual indemnity obligations in Paragraph 7.18.
 3. Severability of interests and no insured-versus-insured or cross-liability exclusions.
 4. Underground, explosion, and collapse coverage.
 5. Personal injury coverage.
 6. Additional insured endorsements that include both ongoing operations and products and completed operations coverage through ISO Endorsements CG 20 10 10 01 and CG 20 37 10 01 (together). If Contractor demonstrates to Owner that the specified ISO endorsements are not commercially available, then Contractor may satisfy this requirement by providing equivalent endorsements.
 7. For design professional additional insureds, ISO Endorsement CG 20 32 07 04 "Additional Insured—Engineers, Architects or Surveyors Not Engaged by the Named Insured" or its equivalent.
- H. Commercial General Liability—Excluded Content: The commercial general liability insurance policy, including its coverages, endorsements, and incorporated provisions, must not include any of the following:
1. Any modification of the standard definition of "insured contract" (except to delete the railroad protective liability exclusion if Contractor is required to indemnify a railroad or others with respect to Work within 50 feet of railroad property).
 2. Any exclusion for water intrusion or water damage.
 3. Any provisions resulting in the erosion of insurance limits by defense costs other than those already incorporated in ISO form CG 00 01.
 4. Any exclusion of coverage relating to earth subsidence or movement.

5. Any exclusion for the insured's vicarious liability, strict liability, or statutory liability (other than worker's compensation).
 6. Any limitation or exclusion based on the nature of Contractor's work.
 7. Any professional liability exclusion broader in effect than the most recent edition of ISO form CG 22 79.
- I. Commercial General Liability—Minimum Policy Limits
 - J. Automobile Liability: Contractor shall purchase and maintain automobile liability insurance 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 automobile liability policy must be written on an occurrence basis.
 - K. Using Umbrella or Excess Liability Insurance to Meet CGL and Other Policy Limit Requirements: Contractor may not meet the policy limits specified for employer's liability, commercial general liability, and automobile liability through the primary policies alone, or through combinations of the primary insurance policy's policy limits and partial attribution of the policy limits of an umbrella or excess liability policy.
 - M. Contractor's Pollution Liability Insurance: Contractor shall purchase and maintain a policy covering third-party injury and property damage, including cleanup costs, as a result of pollution conditions arising from Contractor's operations and completed operations. This insurance must be maintained for no less than 3 years after final completion.
 - N. Contractor's Professional Liability Insurance: If Contractor will provide or furnish professional services under this *Contract*, through a delegation of professional design services or otherwise, then Contractor shall be responsible for purchasing and maintaining applicable professional liability insurance. This insurance must cover negligent acts, errors, or omissions in the performance of professional design or related services by the insured or others for whom the insured is legally liable. The insurance must be maintained throughout the duration of the Contract and for a minimum of 2 years after Substantial Completion. The retroactive date on the policy must pre-date the commencement of furnishing services on the Project.
 - P. Unmanned Aerial Vehicle Liability Insurance: If Contractor uses unmanned aerial vehicles (UAV—commonly *referred* to as drones) at the Site or in support of any aspect of the Work, Contractor shall obtain UAV liability insurance in the amounts stated; name Owner, Engineer, and all individuals and entities identified in the Supplementary Conditions as additional insureds; and provide a certificate to Owner confirming Contractor's compliance with this requirement. Such insurance will provide coverage for property damage, bodily injury or death, and invasion of privacy.

ARTICLE 7 — CONTRACTOR'S RESPONSIBILITIES

- SC-7.03 Add the following new subparagraphs immediately after Paragraph 7.03.C:
1. Regular working hours will be 6 am to 6 pm.
 2. Owner's legal holidays are: New Year's Eve and New Year's Day, Martin Luther King Jr. Day, President's Day, Memorial Day, Independence Day, Labor Day,

Veteran's Day, Thanksgiving Day and the day after, Christmas Eve and Christmas Day.

7.09 Permits

SC-7.09 Add the following new paragraphs immediately after paragraph 7.09.A:

- B. Owner will provide the following permits:
 - 1. Edwards Aquifer Protection Plan.
 - 2. City Building Permit.

7.10 Taxes

SC-7.10 Add the following new paragraph immediately after Paragraph 7.10.A:

7.19 Delegation of Professional Design Services

SC-7.19 Add the following new subparagraph immediately after 7.19.A.

- 1. Where the technical specs require the Contractor to provide professional design services and to submit signed and sealed documents from a registered Professional Engineer.

ARTICLE 8 — OTHER WORK AT THE SITE

Not used.

ARTICLE 9 — OWNER'S RESPONSIBILITIES

Not used.

ARTICLE 10 — ENGINEER'S STATUS DURING CONSTRUCTION

10.03 Resident Project Representative

SC-10.03 Add the following new paragraphs immediately after Paragraph 10.03.B:

- C. The Resident Project Representative (RPR) will be Engineer's representative at the Site. RPR's dealings in matters pertaining to the Work in general will be with Engineer and Contractor. RPR's dealings with Subcontractors will only be through or with the full knowledge or approval of Contractor. The RPR will:
 - 1. Conferences and Meetings: Attend meetings with Contractor, such as preconstruction conferences, progress meetings, job conferences, and other Project-related meetings (but not including Contractor's safety meetings), and as appropriate prepare and circulate copies of minutes thereof.
 - 2. Safety Compliance: Comply with Site safety programs, as they apply to RPR, and if required to do so by such safety programs, receive safety training specifically related to RPR's own personal safety while at the Site.
 - 3. Liaison
 - a. Serve as Engineer's liaison with Contractor. Working principally through Contractor's authorized representative or designee, assist in providing information regarding the provisions and intent of the Contract Documents.
 - b. Assist Engineer in serving as Owner's liaison with Contractor when Contractor's operations affect Owner's on-Site operations.

- c. Assist in obtaining from Owner additional details or information, when required for Contractor's proper execution of the Work.
- 4. Review of Work; Defective Work
 - a. Conduct on-Site observations of the Work to assist Engineer in determining, to the extent set forth in Paragraph 10.02, if the Work is in general proceeding in accordance with the Contract Documents.
 - b. Observe whether any Work in place appears to be defective.
 - c. Observe whether any Work in place should be uncovered for observation, or requires special testing, inspection or approval.
- 5. Inspections and Tests
 - a. Observe Contractor-arranged inspections required by Laws and Regulations, including but not limited to those performed by public or other agencies having jurisdiction over the Work.
 - b. Accompany visiting inspectors representing public or other agencies having jurisdiction over the Work.
- 6. Payment Requests: Review Applications for Payment with Contractor.
- 7. Completion
 - a. Participate in Engineer's visits regarding Substantial Completion.
 - b. Assist in the preparation of a punch list of items to be completed or corrected.
 - c. Participate in Engineer's visit to the Site in the company of Owner and Contractor regarding completion of the Work, and prepare a final punch list of items to be completed or corrected by Contractor.
 - d. Observe whether items on the final punch list have been completed or corrected.
- D. The RPR will not:
 - 1. Authorize any deviation from the Contract Documents or substitution of materials or equipment (including "or-equal" items).
 - 2. Exceed limitations of Engineer's authority as set forth in the Contract Documents.
 - 3. Undertake any of the responsibilities of Contractor, Subcontractors, or Suppliers.
 - 4. Advise on, issue directions relative to, or assume control over any aspect of the means, methods, techniques, sequences or procedures of construction.
 - 5. Advise on, issue directions regarding, or assume control over security or safety practices, precautions, and programs in connection with the activities or operations of Owner or Contractor.
 - 6. Participate in specialized field or laboratory tests or inspections conducted off-site by others except as specifically authorized by Engineer.
 - 7. Authorize Owner to occupy the Project in whole or in part.

ARTICLE 11 — CHANGES TO THE CONTRACT

11.02 Change Orders

SC-11.02 Insert the following new subparagraphs immediately following Paragraph 11.02.A.4:

5. In signing a Change Order, the Owner and Contractor acknowledge and agree that:
 - a. the stipulated compensation (Contract Price or Contract Times, or both) set forth in the Change Order includes not only all direct costs of Contractor such as labor, material, job overhead, and profit markup, but also includes any costs for modifications or changes in sequence of work to be performed, delays, rescheduling, disruptions, extended direct overhead or general overhead, acceleration, material or other escalation which includes wages and other impact costs. This document will become a supplement to the Contract and all Contract provisions will apply hereto. It is understood that this Change Order shall be effective on the date approved by the Owner's Representative;
 - b. the Change Order constitutes full mutual accord and satisfaction for the change to the Work;
 - c. no reservation of rights to pursue subsequent claims on the Change Order will be made by either party; and
 - d. no subsequent claim or amendment of the Contract Documents will arise out of or as a result of the Change Order.

11.08 Change of Contract Times

SC-11.08 Add the following new paragraphs immediately after Paragraph 11.08.B:

C. Use of Float:

1. A request for adjustment of Contract Times (or Milestones), otherwise allowable under the Contract Documents, shall be granted only when the time lost or gained exceeds the float for the activity at the time of the event giving rise to the claim. Float, the amount of time between the early start date and the late start date, or the early finish date and the late finish date, is jointly owned by both Owner and Contractor whether expressly disclosed or implied in any manner.
2. Contractor shall not use float suppression techniques (including, but not limited to, preferential sequencing caused by late starts of follow-up trades, unreasonably small crews, extended durations, or imposed dates) in information provided to Engineer.

ARTICLE 12 — CLAIMS

Not used.

ARTICLE 13 — COST OF WORK; ALLOWANCES, UNIT PRICE WORK

13.01 Cost of the Work

SC-13.01 Adding the following new language at the end of Paragraph 13.01.C.2:

- a. Costs will include the time the equipment or machinery is in use on the changed Work and the costs of transportation, loading, unloading,

assembly, dismantling, and removal when directly attributable to the changed Work. The cost of any such equipment or machinery, or parts thereof, shall cease to accrue when the use thereof is no longer necessary for the changed Work. For purposes of this paragraph, “small tools and hand tools” means any tool or equipment whose current price if it were purchased new at retail would be less than \$500.

ARTICLE 14 — TESTS AND INSPECTIONS; CORRECTION, REMOVAL, OR ACCEPTANCE OF DEFECTIVE WORK

Not used.

ARTICLE 15 — PAYMENTS TO CONTRACTOR, SET OFFS; COMPLETIONS; CORRECTION PERIOD

15.03 Substantial Completion

SC-15.03 Add the following new subparagraphs immediately after Paragraph 15.03.A:

1. The Work shall be Substantially Complete when the Work can treat wastewater to required quality and discharge in the quantity in accordance with the Contract Documents. All process equipment shall be installed and operational, or temporary arrangements satisfactory to Owner shall have been made. Operational testing must be completed prior to the date of Substantial Completion.

ARTICLE 16 — SUSPENSION OF WORK AND TERMINATION

Not used.

ARTICLE 17 — FINAL RESOLUTIONS OF DISPUTES

17.02 Arbitration

SC-17.02 Add the following new paragraph immediately after Paragraph 17.01.

ARTICLE 18 — MISCELLANEOUS

Not used.

END OF DOCUMENT

**SECTION 00800
SUPPLEMENTAL CONDITIONS**

1.0 SCOPE OF WORK

The City of Dripping Springs, Texas will accept competitive sealed proposals for construction of the City of Dripping Springs South Regional Wastewater System Howard Ranch Treated Effluent Fill Station. The Project will include installing a 2” CLA-VAL altitude control valve, pipe reducer, and concrete utility vault into existing 2” and 4” treated effluent lines; and the installation of a 2” irrigation meter in a concrete utility vault. The Work to be performed includes furnishing all necessary supervision, machinery, insurance, materials, equipment, tools, and labor necessary for the design, fabrication, material delivery, erection and construction, painting, inspection, and testing to complete the Work.

The City of Austin Standard Construction Specifications current at the time of bidding shall govern materials and methods used to do the work and are made a part of this Contract. Whenever the term “City of Austin” is used in the City of Austin Specifications, it shall be construed to mean “OWNER, and or its designated representative.” Whenever the term “ENGINEER” is used in the City of Austin Specifications, it shall be construed to mean Burgess & Niple, Inc. Technical Specifications provided are intended to supplement the City Standard Specifications, not to replace them. Any discrepancies between the City Standard Specifications and the terms of this Contract shall be reported to the Engineer, who shall determine which specification shall govern.

2.0 ENGINEER (Reference 1.01.A.20 in the General Conditions)

The term “Engineer” in these specifications shall be understood as referring to Burgess & Niple, Inc., 235 Ledge Stone Drive, Austin, Texas 78737, or such other Engineer, Superintendent, or Inspector as may be authorized by said OWNER to act in any particular.

3.0 OWNER (Reference 1.01.A.28 in General Conditions)

The term “OWNER” shall mean The City of Dripping and/or designated Project Manager, Attorney, Engineer, or any other person or entity designated by the City of Dripping Springs.

4.0 EXAMINATION OF SITE OF PROJECT

CONTRACTOR shall make a careful examination of the site of the Project, soil, and water conditions to be encountered, improvements to be protected, disposal sites for surplus materials not designated to be salvaged materials, and the method of providing ingress and egress to the work sites and private properties, and the methods of handling traffic during construction of the entire Project.

5.0 CONSTRUCTION PLANS AND SPECIFICATIONS (Reference 2.02 of the General Conditions)

**SECTION 00800
SUPPLEMENTAL CONDITIONS**

Construction plans are furnished herewith and made a part of these specifications, the same as if they were written herein. The CONTRACTOR will be furnished three (3) sets Project Documents at no expense to him.

The documents are intended to agree and be mutually explanatory, and they shall be accepted and used as a whole and not separately. Should any item be omitted from the drawing and be herein specified, or vice versa, it shall be executed in the same way as if both shown and specified. Should contradiction be found, definite provisions of the specifications will be referred to the requirements of the drawings; however, the decision of the Engineer shall be final.

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

1. the provisions of any standard specification, manual, reference standard, or code, or the instruction of any Supplier (whether or not specifically incorporated by reference as a Contract Document); or
2. 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).

Where reference is made in these specifications to specifications compiled by other agencies, organizations or departments, such reference is made for expediency and standardization. Such specifications referred to are hereby made a part of these specifications.

6.0 RECORD DRAWINGS/AS-BUILT PLANS (Reference 2.02 of the General Conditions)

Prior to commencing any portion of the Work, the CONTRACTOR will be furnished two (2) sets of construction plans in the form of blue-line prints to be used as a daily record of the Work as constructed on which it shall indicate changes made during construction. All notes and comments necessary to give a clear conception of exactly how all items were constructed including locations shall be shown. As-built plans shall also be provided for all shop drawings submitted by CONTRACTOR if the shop drawings were constructed differently than that approved. The furnished sets of drawings shall be identified on the front lower right-hand corner of each sheet by a rubber stamp impression reading as follows:

**"RECORD PRINTS"
"TO BE USED FOR RECORDING AUTHORIZED FIELD
MODIFICATIONS AND DIMENSIONAL DATA ONLY"**

One set of "Record Prints" shall be submitted to the Engineer for review at the time of Substantial Completion and must be approved prior to final payment. The Engineer will

SECTION 00800
SUPPLEMENTAL CONDITIONS

return these drawings to the CONTRACTOR who shall transfer in indelible red ink all the information onto the clean set of blueline prints for the OWNER's use. After recording information on the prints, the CONTRACTOR shall stamp each print "Record Drawings" and certify in writing on each print by his signature that the indications are a true and accurate record. CONTRACTOR shall deliver both the jobsite marked-up prints and the "Record Drawings" prints to the Engineer. These "Record Drawings" prints delivered for the OWNER's use is a condition of final acceptance and payment.

As the work progresses, the CONTRACTOR shall update the "Record Prints" on a daily basis as required to maintain an accurate dimensional record of the work as constructed, including:

1. Exact locations and elevations of all underground and buried portions of the Work.
2. All changes and corrections to dimensions.
3. All changes of materials and finishes.
4. Location, size and arrangement of all concealed items of mechanical and electrical portions of the work, including outlets, piping conduit, valves, dampers, duct work and equipment.
5. Location, size and arrangement of exposed piping, valves, conduit, equipment, and other utilities.
6. All changes and deviations in the work from that indicated and specified in the Contract Documents including Addenda, Change Orders, and field modifications.

Field measurements shall be made of work in place and the proper dimensions indicated on the "Record Prints" to clearly and accurately delineate the work as constructed.

Equipment identification plates, valve tags, fixture types and other identification designations shall be clearly marked on the "Record Prints" as to location and designation using symbols corresponding to symbols used in the Contract Documents.

The preparation of "Record Prints" showing changes and deviations in the Work does not grant the CONTRACTOR the authority to make changes in the Work without the expressed written approval of the Engineer and OWNER in each and every case.

7.0 COMMENCING WORK (Reference 2.04 of the General Conditions)

The CONTRACTOR is required to notify the Engineer at least 48 hours prior to the date work is to commence under this Contract and at least 48 hours prior to implementing any change in the work schedule.

No Person shall have the authority to verbally alter, modify, expand or reduce the requirements of the drawings or specifications. Verbal modifications shall not be binding

**SECTION 00800
SUPPLEMENTAL CONDITIONS**

on the OWNER or CONTRACTOR until specifically confirmed in writing by the ENGINEER. The CONTRACTOR shall bear full responsibility for nonconforming work initiated by a verbal request in the field. All modifications affecting cost, scope, quality or time shall be made a part of the contract by a "Change in Contract" approved by OWNER.

8.0 QUANTITIES (Reference 3.03 of the General Conditions)

The CONTRACTOR shall check and verify all dimensions shown on the drawings and shall report in writing any inconsistencies to the Engineer before submitting a Bid, or include in the Bid the greater quantity or better quality of work, or compliance with the more stringent requirement resulting in a greater cost as described in the Instructions to Bidders. In addition, the CONTRACTOR shall check and verify all dimensions shown on the drawings and shall report in writing any inconsistencies to the Engineer before proceeding with any work or ordering of materials. The CONTRACTOR shall verify all measurements and shall be responsible for the correctness of the same. Any difference which may be found shall be submitted in writing to the Engineer for consideration before proceeding with the Work.

The CONTRACTOR shall calculate all quantities for the work to be performed based on the construction drawings and specifications. The cost for all work required to complete the Work shall be included in the Contract Price. No incidental items of work will be paid for unless there is an item in the proposal for such work. It must be strictly understood that the prices bid are for complete and acceptable work, and CONTRACTOR will not be paid for any materials on hand or stored at the job site.

9.0 STAKING FOR CONSTRUCTION (Reference 3.03.A of the General Conditions)

Construction staking for the alignment and location of all proposed improvements shall be the responsibility of the CONTRACTOR. The proposed improvements shall be located as shown on the construction plans and in reference to benchmarks identified by the Engineer. The OWNER reserves the right to check the CONTRACTOR's lines, grades, levels, etc. at any time. No direct or separate payment will be made for construction staking or restaking.

10.0 CONSTRUCTION SCHEDULE (Reference 2.05 of the General Conditions)

Prior to commencing work, the CONTRACTOR shall submit a schedule illustrating the working day progress of the work to its completion within the time frame allotted in the Contract. This schedule shall be revised by the CONTRACTOR monthly and submitted with monthly pay estimates to the Engineer.

11.0 CONTRACTOR'S RESPONSIBILITY AND LIABILITY FOR PERFORMANCE OF WORK (Reference 3.03 of the General Conditions)

SECTION 00800
SUPPLEMENTAL CONDITIONS

It is expressly understood and agreed to by the CONTRACTOR that, regardless of the extent of inspection and supervision provided by the OWNER and the Engineer, it is the CONTRACTOR's responsibility to perform and complete work in accordance with the drawings and specifications, and that the OWNER and Engineer have no liability or responsibility whatever to the CONTRACTOR for any work performed by the CONTRACTOR which is not in accordance with the drawings and specifications regardless of the time when discovered and whether discovered at any time during the course of construction or after acceptance of the Work.

The Engineer shall inform the CONTRACTOR of any Work that is not in accordance with the drawings and specifications when it becomes known to him. If any Work is performed which is not in accordance with the drawings and specifications and is not discovered until a later time, neither the OWNER nor the Engineer shall have any responsibility to the CONTRACTOR, or be liable to the CONTRACTOR for the correction or removal of the unsatisfactory portion of the Work or of any portion of the Work subsequently performed or affected by it. The correction or removal of such unsatisfactory Work and the replacement with satisfactory Work shall be performed by the CONTRACTOR at his own expense, and is understood to be fully included in his contract requirements, without any additional compensation or claims upon the OWNER or Engineer.

12.0 BOUNDARIES OF WORK (Reference 5.01 of the General Conditions)

The CONTRACTOR is required to use only the area designated by the OWNER as working areas. All work shall be done in such a manner as not to interfere with normal activities occurring outside of the work area.

The OWNER will provide land and rights-of-way for the Work specified in this Contract and make suitable provisions for ingress and egress, and the CONTRACTOR shall not enter on or occupy with men, tools, equipment, or materials, any ground outside the Site or property of the OWNER without the written permission of the owner of such other property.

13.0 EXISTING UTILITIES (Reference 5.05 of the General Conditions)

Existing surface and subsurface structures (gas mains, water mains, sewer mains, storm sewers, telephone cables, electrical lines, etc.) are shown on the plans if their location has been determined, but it shall be the responsibility of the CONTRACTOR to avoid damaging these existing structures whether or not they are shown on the plans. The OWNER and Engineer assume no responsibility for failure to show any or all of the structures on the plans or to show them in their exact location. It is mutually agreed that such failure to show these structures will not be considered sufficient basis for claims for additional compensation for extra work or for increasing the pay quantities in any manner whatsoever. If any structure is damaged by the CONTRACTOR it shall be his responsibility to repair the damage at his own expense and restore the structure to its functional use.

**SECTION 00800
SUPPLEMENTAL CONDITIONS**

The CONTRACTOR shall be responsible for the protection of all existing utilities or service lines crossed by its construction operations. Where existing utilities or service lines are cut, broken, or damaged, the CONTRACTOR shall replace or repair the utilities or service lines with the same type of original material and construction, or better, at his own cost and expense.

Protection of poles and landscaping shall be done at no expense to the OWNER.

14.0 PUBLIC UTILITIES AND OTHER PROPERTY TO BE CHANGED
(Reference 5.05 of the General Conditions)

In case it is necessary to change or move the property of any owner or of a public utility, such property shall not be moved or interfered with, until ordered to do so by the Engineer. The right is reserved by the owner of public utilities to enter upon the limits of the Project for the purpose of making such changes or repairs to their property that may become necessary by the performance of this Contract.

15.0 CONTRACTOR'S INSURANCE

~~CONTRACTOR shall, at its sole cost and expense, procure and maintain in effect during the term of this Agreement the insurance coverage in the amounts set forth herein. CONTRACTOR shall also obtain and maintain professional errors and omissions liability insurance (including contractual liability and prior acts coverage sufficient to cover the services performed under this Agreement) with policy limits in an amount not less than One Million Dollars (\$1,000,000.00) per claim and in the aggregate, or limit carried, whichever is greater, and with a deductible of not more than Twenty Five Thousand Dollars (\$25,000.00). Such insurance shall be renewed so as to provide continuous coverage during the term of this Agreement and for a period of at least ten (10) years after Substantial Completion of the Work for acts and omissions committed during the term of this Agreement. Concurrently with the execution of this Agreement, CONTRACTOR shall file with OWNER original certificates of insurance and endorsements showing the insurance required hereunder to be in force. CONTRACTOR shall not commence delivery or be paid for any merchandise or services unless and until insurance documentation properly completed and executed has been delivered to and approved by OWNER. The following coverage, terms and limits are minimum requirements (the "Required Insurance"):~~

~~(a) — **Commercial General Liability:**~~

~~(i) — \$2,000,000 combined single limit general aggregate and \$1,000,000 completed operations aggregate with \$2,000,000 aggregate or equivalent approved by Owner, or current limit carried, whichever is greater;~~

~~(ii) — Required:~~

- ~~1. Each Occurrence \$1,000,000~~
- ~~2. Fire Damage (Any one fire) \$100,000~~

SECTION 00800
SUPPLEMENTAL CONDITIONS

- ~~3. Med Exp (Any one person) \$5,000~~
- ~~4. Personal & Adv Injury \$1,000,000~~
- ~~5. General Aggregate \$2,000,000~~
- ~~6. Products Comp/Op Agg \$2,000,000~~
- ~~7. Emp Ben \$1,000,000~~

~~(iii) Excess Liability~~

- ~~1. Each Occurrence \$2,000,000~~
- ~~2. Aggregate \$2,000,000~~

~~(iv) ISO or comparable Occurrence Form (Modified Occurrence and Claims Made forms are not acceptable; if Modified Occurrence or Claims Made coverage is submitted, Owner shall have the right to cancel any Agreement or stop work and withhold payment to CONTRACTOR until proof of Occurrence form coverage is received);~~

~~(v) Bodily injury liability, broad form property damage coverage including completed operations, products liability/completed operations coverage, premises operations, blanket contractual liability, personal and advertising injury, independent contractor's liability, mobile equipment, owners and contractors protective liability, damage from explosion, collapse and underground hazards (i.e., "XCU" exclusion deleted), and cross liability and severability of interest clauses;~~

~~(vi) Endorsement ISO Form B #CG2010-1185 or its equivalent at no expense to Owner naming, OWNER, 290 East Bush, Inc. and their respective officers, directors, partners, members and employees, City of Dripping Springs and their respective officers, directors, partners, members and employees, and Burgess & Niple, Inc., and their respective officers, directors, partners, members and employees; as additional insureds;~~

~~(vii) A provision that such insurance afforded by the policy for the benefit of the additional insureds shall be primary insurance but only as respects any claims, losses, or liabilities relating to or arising out of the operations of the named insured, and any insurance maintained by the additional insureds shall be excess and non-contributing;~~

~~(viii) An endorsement affording thirty (30) days' prior notice to OWNER by certified mail in the event of cancellation, non-renewal, modification or reduction in coverage. The reference to "endeavor to" and "but failure to mail such notice shall impose no obligation or liability of any kind upon the company, its agents or representatives" in the~~

**SECTION 00800
SUPPLEMENTAL CONDITIONS**

~~cancellation notification portion of the certificate and/or endorsement must be deleted;~~

~~(ix) — A deductible or self-insured retention of not more than \$5,000 (unless approved in writing by Owner);~~

~~(b) — **Automobile Liability:**~~

~~(i) — \$1,000,000 combined single limit or equivalent approved by OWNER;~~

~~(ii) — Bodily injury, property damage, and uninsured motorist;~~

~~(iii) — Owned, non-owned and hired vehicles; and Thirty (30) days' notice of cancellation by certified mail.~~

~~(c) — **Workers' Compensation/ Employer's Liability:**~~

~~(i) — Bodily injury limits as required by statute;~~

~~(ii) — Employer's Liability:~~

~~Bodily injury by accident — \$1,000,000 each accident~~

~~Bodily injury by disease — \$1,000,000 each employee~~

~~Bodily injury by disease — \$1,000,000 policy limit~~

~~(iii) — Waiver of subrogation; and~~

~~(iv) — Thirty (30) days' notice of cancellation by certified mail.~~

~~(d) — Insurance carriers must have at least a "Best's Rating" of "A" and a Financial Size Category" of "VIII" or better as set forth in the most current edition of Best's Key Rating Guide, and shall otherwise be acceptable to OWNER.~~

~~(e) — The Required Insurance shall cover CONTRACTOR, its authorized representatives, employees, agents and any other person performing any work under any contract or agreement with CONTRACTOR. CONTRACTOR shall deliver to OWNER Certificates of Insurance with the following additional insureds listed on each certificate:~~

~~**Burgess & Niple, Inc.**~~

~~#~~

~~#~~

~~#~~

**SECTION 00800
SUPPLEMENTAL CONDITIONS**

~~(f) — The Required Insurance shall not contain any exclusionary language or limitations that are applicable to any additional insured that are not applicable to the named insured.~~

~~(g) — Concurrently with the execution of the Agreement, CONTRACTOR shall file with OWNER original certificates of insurance and endorsements showing the Required Insurance to be in force. Upon the request of OWNER, CONTRACTOR shall provide OWNER with certified copies of all policies as well as any subsequent policies and endorsements which CONTRACTOR is required to procure and maintain. Renewal certificates and endorsements for commercial general liability and/or professional liability shall be provided to OWNER, at no expense to OWNER, not less than thirty (30) days prior to expiration of such insurance, for a period of four (4) years after acquisition of the Property.~~
VENDOR SHALL NOT COMMENCE OR BE PAID FOR ANY WORK UNLESS AND UNTIL INSURANCE DOCUMENTATION PROPERLY COMPLETED AND EXECUTED HAS BEEN DELIVERED TO AND APPROVED BY OWNER.

~~(h) — All insurance documentation evidencing the Required Insurance shall be sent to:~~

City of Dripping Springs
P.O. Box 384
511 Mercer Street
Dripping Springs, Texas 78620

~~(i) — If CONTRACTOR fails to procure, maintain or pay for the Required Insurance, OWNER shall have the right (but not the obligation) to secure same in the name of and for the account of CONTRACTOR, in which event, CONTRACTOR shall pay the cost thereof and shall furnish upon demand, all information that may be required to procure such insurance.~~

~~(j) — The insurance requirements set forth herein shall in no way limit CONTRACTOR's liability arising out of the work performed under the Agreement or related activities. The inclusions, coverage and limits set forth herein are minimum inclusions, coverage and limits. Nothing contained herein shall be construed as limiting the type, quality or quantity of insurance coverage that CONTRACTOR should maintain. CONTRACTOR shall be responsible for determining appropriate inclusions, coverage and limits, which may be in excess of the minimum requirements set forth herein.~~

The failure of CONTRACTOR to fully and strictly comply at all times with the insurance requirements set forth herein shall be deemed a material breach of the Agreement.

SECTION 00800
SUPPLEMENTAL CONDITIONS

16.0 SUPERINTENDENT (Reference 7.01 of the General Conditions)

A full time field superintendent with a minimum of five (5) years experience in a similar type of construction must be present at all times, regardless of the amount of work, and must be capable of making decisions on the CONTRACTOR's behalf.

17.0 LABOR FORCE (Reference 7.02.A of the General Conditions)

The CONTRACTOR may bring his superintendent, foreman, sub-foreman, machine operators, and sufficient key men to round his organization. The CONTRACTOR shall abide by the Wage and Hour Laws of the State and must not pay less than the rates legally prescribed.

CONTRACTOR shall not use in the performance of the Work any personnel, whether employed by CONTRACTOR or its subcontractors, deemed by OWNER to be incompetent, careless, unqualified to perform the work assigned, or otherwise unsatisfactory to OWNER, and shall at OWNER's request remove any such person from the Project.

18.0 MATERIALS AND WORKMANSHIP (Reference 7.03, 7.04, 7.05 of the General Conditions)

The CONTRACTOR shall furnish all materials for a complete job as shown on the plans and as required by the specifications. No material which has been used by the CONTRACTOR for any temporary purpose whatever is to be incorporated in the permanent structure without written consent of the Engineer.

The Contract, if awarded, will be on the basis of materials and equipment specified or described in the Bidding Documents, or those substitute or "or-equal" materials and equipment approved by Engineer and OWNER and identified by Addendum.

Where material or equipment is specified by a trade or brand name, it is not the intention of the OWNER to discriminate against an equal product or another manufacturer, but rather to set a definite standard of performance and to establish an equal basis for the evaluation of bids. Where the words "equivalent", "proper", or "equal to" are used, they shall be understood to mean that the article or process is equal, in the opinion or judgment of the Engineer, to the article or process specified by name. Unless otherwise specified, all materials shall be the best of its respective kind and shall be in all cases fully equal to approved samples. No item of material or equipment will be considered by Engineer as a substitute or "or-equal" unless written request for approval has been submitted by CONTRACTOR and has been received by Engineer at least 10 days prior to the date for receipt of Bids. Each such request shall conform to requirements of paragraph 6.05 of the General Conditions. Engineer's decision of approval or disapproval of a proposed item will be final. If Engineer approves any proposed item, such approval will be set forth in an Addendum.

19.0 SUBCONTRACTORS (Reference 7.06 of the General Conditions)

**SECTION 00800
SUPPLEMENTAL CONDITIONS**

CONTRACTOR must submit to OWNER and Engineer a list of all subcontractors for approval prior to commencing work. During the course of construction any changes in subcontractors must have prior written approval by the OWNER and Engineer.

20.0 PERMITS, CERTIFICATES, LAWS, AND ORDINANCES (Reference 7.07, 7.08, 7.10 of the General Conditions)

The CONTRACTOR shall, at his own expense, procure any and all permits, certificates and licenses required of him by law or local ordinance for the execution of his work, including any permits required for transport of equipment or supplies for this Contract. Construction shall not commence on the Project until all applicable permits are obtained by the CONTRACTOR.

All work shall be done in strict accordance with all applicable Laws and Regulations of any regulatory agency having jurisdiction over this Work or the Site. It is not the intention of this Contract to violate the Laws and Regulations of any regulatory agencies having jurisdiction over this Work. This Contract indicates only the minimum quantity or quality acceptable to regulatory agencies having jurisdiction over this Work or the Site. If the codes, etc. call for greater quality or quantity, that greater quality or quantity shall be the basis for the bid.

All costs of labor, materials and fees for obtaining permits, utility taps and hookups, etc. shall be included in the Contract Price.

21.0 SALES TAX (Reference 7.09 of the General Conditions)

The CONTRACTOR will be responsible for the payment of all taxes in compliance with the laws of the State of Texas and the United States. However, this Contract is to be performed for a tax-exempt organization. The CONTRACTOR may purchase all materials incorporated into realty in the performance of this Contract without paying sales tax. The OWNER is exempt from paying sales tax on services required as an integral portion of the Contract. The CONTRACTOR will be liable for the payment of limited sales tax if the CONTRACTOR uses the tangible personal property in some other use than the reason listed above, and shall pay the tax based on the price for the tangible personal property.

22.0 REPLACEMENT OF MISCELLANEOUS IMPROVEMENTS/CLEAN UP
(Reference 5.02 of the General Conditions)

The CONTRACTOR shall repair or replace all fences, landscaping, mailboxes, light poles, concrete walls, sidewalks, driveways, drainage ways, utilities, concrete curbs and concrete pavement, signs, culverts, asphalt pavement, building walls and attachments and other miscellaneous improvements damaged by the CONTRACTOR due to his operations on this Project, to a condition equal to or better than its condition before construction, at no expense to the OWNER. No direct payment will be made for this item.

**SECTION 00800
SUPPLEMENTAL CONDITIONS**

During construction, the CONTRACTOR shall maintain the Site in an orderly, neat, and presentable manner. Scraps and debris shall not be left scattered but shall be assembled together and to the extent unusable shall be moved from the Site or disposed of to the satisfaction of the Engineer. After the Work is completed and before final acceptance of the Work by OWNER, CONTRACTOR shall remove all debris from the construction site. Temporary structures, forms, equipment, objectionable rocks, concrete and other debris shall be removed in such manner as to leave the construction site in a neat and presentable condition throughout. Earthwork shall be smoothed and graded to the lines shown on the construction plans. No direct payment will be made for clean up.

During construction the CONTRACTOR shall keep the Site free and clean from all rubbish and debris and shall clean up the Site promptly and when notified to do so by the Engineer or OWNER.

The CONTRACTOR shall, at his own expense, maintain the streets and roads free from dust, mud, excess earth or debris which constitutes a nuisance or danger to the public using the thoroughfare, or the occupants of adjacent properties. Care shall be taken to prevent spillage or debris deposited on streets, due to the CONTRACTOR's operations, and shall be immediately removed.

The CONTRACTOR shall coordinate his operations in such a manner as to prevent the amount of clean up and completion of back work from becoming excessive. Should such a condition exist, the Engineer may order all or portions of the Work to cease, and refuse to allow any Work to commence until the clean up and back work is done to the Engineer's satisfaction.

The CONTRACTOR shall do such grading in the area adjacent to streets and drainage facilities as may be necessary to leave the area in a neat and satisfactory condition approved by the Engineer. In addition, CONTRACTOR shall clean and remove sediment from the storm sewer facilities deposited as a result of construction to a satisfactory condition approved by the Engineer.

23.0 EXISTING CONDITIONS (Reference 5.02.A of the General Conditions)

The CONTRACTOR shall be responsible for any loss or damage caused by it or its workmen to the property of OWNER and shall immediately repair or replace such loss or damage under the direction and to the complete satisfaction of the OWNER.

24.0 PROTECTION OF THE SITE AND LAYDOWN/STORAGE AREAS
(Reference 7.12 of the General Conditions)

The CONTRACTOR shall protect all structures, utilities and pipelines, trees, shrubbery, lawns, and other improvements during the progress of his work and shall remove from the Site and laydown/storage areas all debris and unused materials.

SECTION 00800
SUPPLEMENTAL CONDITIONS

The CONTRACTOR shall at all times provide protection against weather such as rain, wind, storms, frost, or heat so as to maintain all work and materials free from injury or damage. At the end of the day's work, all new work likely to be damaged shall be covered. Any materials damaged by failure to provide protection as required, shall be removed and replaced with new materials at the CONTRACTOR's expense.

25.0 TRENCH EXCAVATION SAFETY PROTECTION (Reference 7.12 of the General Conditions)

Trench protection for all trenches over five (5) feet in depth shall be accomplished by the CONTRACTOR in accordance with all provisions of Part 1926, Subpart P - Excavations, Trenching, and Shoring of the Occupational Safety and Health Standards and Interpretations (OSHA), or any updated and subsequent version thereof.

OSHA requirements are to be strictly enforced by the CONTRACTOR. Any dangerous situation which has been brought to the attention of the CONTRACTOR and which has not been corrected, will be sufficient grounds for stopping the work.

It is the sole duty, responsibility, and prerogative of the CONTRACTOR, not the OWNER or Engineer, to determine the specific applicability of a trench safety system to each field condition encountered on the project. It will be the CONTRACTOR's responsibility to identify the soil type and to accurately adjust his trench safety methods according to the OSHA requirements.

The CONTRACTOR shall indemnify and hold harmless the OWNER and Engineer, its employees and agents, from any and all damages, costs (including, without limitation, legal fees, court costs, and the cost of investigation), judgments or claims by anyone for injury or death of persons resulting from the collapse or failure of trenches constructed under this Contract.

The CONTRACTOR acknowledges and agrees that this indemnity provision provides indemnity for the OWNER and Engineer in case the OWNER or Engineer is negligent either by act or omission in providing for trench safety, including, but not limited to, inspections, failure to issue stop work orders, and the hiring of the CONTRACTOR.

26.0 CONTRACTOR LAYDOWN AREA (Reference 7.12 of the General Conditions)

The CONTRACTOR shall notify the OWNER as to the preferred laydown/equipment storage areas to be used by CONTRACTOR and which must be approved by OWNER. Any temporary security fencing constructed around or within the laydown area(s) shall be approved by OWNER. CONTRACTOR shall completely restore the laydown area to its original condition prior to demobilization. Site restoration shall include removing and properly disposing of all trash and debris, and repairing any roadways used for access to the site damaged by CONTRACTOR. Any temporary security fencing installed for convenience of the CONTRACTOR shall be removed.

SECTION 00800
SUPPLEMENTAL CONDITIONS

27.0 GUARANTEE (Reference 7.17 of the General Conditions)

The CONTRACTOR shall guarantee the Work against defective workmanship and materials for a period of one (1) year from the date of final acceptance of the Work by the OWNER. The determination of the necessity during the warranty period for the CONTRACTOR to repair or replace the Work in whole or in part shall rest with the Engineer and OWNER, whose decision in the matter shall be final and obligatory upon the CONTRACTOR.

Where defective workmanship and/or materials are discovered requiring repairs to be made under this guaranty, all such repair work shall be done by the CONTRACTOR at his own expense within five (5) days after written notice of such defect has been given to him by the OWNER. Should the CONTRACTOR fail to repair or correct such defective workmanship and/or materials within five (5) days after being notified, the OWNER may make the necessary repairs and charge the CONTRACTOR and/or his Surety with the actual cost of all labor and materials required.

28.0 MANUFACTURER'S CERTIFICATES (Reference 7.17 of the General Conditions)

All manufacturer's certificates and guarantees required herein are to be furnished by the CONTRACTOR at its own expense.

29.0 WORK IN PROGRESS BY OTHER CONTRACTORS (Reference 8.01 of the General Conditions)

CONTRACTOR is hereby advised that other contractors will be working at the site to complete the overall Project objectives. Other contractors and employees or agents of the OWNER may, for all necessary purposes, enter upon the Work and Site used by the CONTRACTOR, and the CONTRACTOR shall conduct his work so as not to impede unnecessarily any work being done by others on or adjacent to the sites.

30.0 TESTING OF MATERIALS (Reference 14.02 of the General Conditions)

All testing of materials required under these specifications shall be performed by an approved agency for testing materials. The nomination of the laboratory and the payment for such services shall be made by the OWNER, unless specified otherwise. Any retest required because of failure of the initial test will be paid for by the CONTRACTOR and shall be included in the total Contract Price. OWNER will deduct cost of retesting from the CONTRACTOR's partial Pay Request.

31.0 GUARANTEE INSPECTION (Reference 14.02 of the General Conditions)

Immediately prior to expiration of the one-year guarantee period, the CONTRACTOR shall make an inspection of the Work in the company of the Engineer and the OWNER. The Engineer and the OWNER shall be given not less than 10 days notice prior to the anticipated date of Guarantee expiration.

SECTION 00800
SUPPLEMENTAL CONDITIONS

Where any portion of the Work has proven to be defective and requires replacement, repair or adjustment, the CONTRACTOR shall immediately provide materials and labor necessary to remedy such defective work and shall prosecute such work without delay until completed to the satisfaction of the Engineer and the OWNER, even though the date of completion of the corrective work may extend beyond the expiration date of the guarantee period.

The CONTRACTOR shall not be responsible for correction of work which has been damaged because of neglect or abuse.

32.0 REJECTED MATERIALS (Reference 14.03 of the General Conditions)

All materials which have been rejected or condemned by the OWNER shall be immediately removed from the Site.

33.0 DISPUTE RESOLUTION AGREEMENT (Reference 17.01 of the General Conditions)

OWNER and CONTRACTOR hereby agree that Article 16 of the General Conditions to the Agreement between OWNER and CONTRACTOR is amended to include the following agreement of the parties:

(a) All claims, disputes and other matters in question between OWNER and CONTRACTOR arising out of or relating to the Contract Documents or the breach thereof (except for claims which have been waived by the making and acceptance of final payment) shall be subject to mediation as a condition precedent to binding dispute resolution which, unless the parties mutually agree otherwise, shall be in accordance with the Construction Industry Mediation Rules of the American Arbitration Association then obtaining, subject to the limitations of this Supplemental Condition. The parties shall share the mediator's fee and filing fees equally. The mediation shall be held in the place where the Project is located, unless another location is mutually agreed upon. Agreements reached in mediation shall be enforceable as settlement agreements in any court having jurisdiction thereof. For any claim subject to, but not resolved by mediation, the method of binding dispute resolution shall be litigation in a court of competent jurisdiction.

(b) No request for mediation of any claim, dispute or other matter that is required to be referred to ENGINEER initially for decision in accordance with the Agreement will be made until the earlier of (a) the date on which ENGINEER has rendered a written decision or (b) the thirty-first day after the parties have presented their evidence to ENGINEER if a written decision has not been rendered by ENGINEER before that date. No request for mediation of any such claim, dispute or other matter will be made later than one hundred and eighty days after the date on which ENGINEER has rendered a written decision in respect thereof in accordance with the Agreement and the failure to request mediation within said thirty days' period will result in ENGINEER'S decision being final and binding upon OWNER and CONTRACTOR. No request for mediation of any written decision of ENGINEER rendered in accordance with the Agreement will

**SECTION 00800
SUPPLEMENTAL CONDITIONS**

be made later than sixty days after the party making such request has delivered written notice of intention to appeal as provided in the Agreement.

(c) Notice of the request for mediation will be filed in writing with the other party to the Agreement and with the American Arbitration Association, and a copy will be sent to ENGINEER for information. The request for medication will be made within the one hundred and eighty day or sixty day period specified in subparagraph (b) above as applicable, and in all other cases within a reasonable time after the claim, dispute or other matter in question has arisen, and in no event shall any such request be made after the date when institution of legal or equitable proceedings based on such claim, dispute or other matter in question would be barred by the applicable state of limitations.

34.0 BARRICADES AND DANGER SIGNALS/TRAFFIC CONTROL

The CONTRACTOR shall provide in a manner satisfactory to OWNER the uninterrupted passage of traffic at all times and provide for traffic to and from private property where existing facilities cannot be used due to construction operations.

Where the Work is in, or adjacent to any street, alley, or public place, the CONTRACTOR shall be responsible for furnishing, erecting, and maintaining, at no expense to the OWNER, all traffic control measures, including suitable barricades, warning lights, warning signs, flares, barriers, cones, lights, flags signals, flagmen and other traffic control devices as are or may be necessary to adequately protect the Work and warn of the Project, including, but not limited to, sections of the Project which the CONTRACTOR closes to traffic. Warning devices shall be installed as described in the Texas Manual on Uniform Traffic Control Devices.

The CONTRACTOR will be held responsible for all damage to the work due to the failure of barricades, signs, lights and watchmen to protect it, and whenever evidence is found of such damage, the OWNER may order the damaged portion immediately removed and replaced by the CONTRACTOR at his cost and expense. The CONTRACTOR's responsibility for the maintenance of barricades, signs and lights and for providing watchmen, shall not cease until the Work has been accepted by the OWNER.

Unless otherwise set forth in these specifications, the CONTRACTOR shall receive no direct compensation for furnishing, erecting and maintaining the necessary barricades, lights, flares, signs or for any other materials necessary for the good and proper safety, convenience and direction of traffic during the period prior to final inspection and acceptance by the OWNER.

**35.0 TERMINATION OF CONTRACT IN CASE OF NATIONAL
EMERGENCY**

Whenever, because of a national emergency so declared by the President of the United States or other lawful authority, it becomes impossible for the CONTRACTOR to obtain all of the necessary labor, material and equipment for the prosecution of the Work with

SECTION 00800
SUPPLEMENTAL CONDITIONS

reasonable continuity for a period of two months, or to complete the Work if Substantial Completion is expected in less than two (2) months, the CONTRACTOR shall within seven (7) days notify the OWNER in writing, giving a detailed statement of the efforts which have been made and listing all necessary items of labor, material and equipment not obtainable. If after investigation, the OWNER finds that such conditions exist and that the inability of the CONTRACTOR to proceed is not attributable in whole or in part to the fault or neglect of the CONTRACTOR, then if the OWNER cannot after reasonable effort assist the CONTRACTOR in procuring and making available the necessary labor, materials, and equipment within 30 days, the CONTRACTOR may request the OWNER to terminate the Contract and the OWNER shall within 30 days comply with the request, and the termination shall be based on a final settlement, which shall include, but not be limited to, the payment for the portion of the Work completed and approved.

36.0 WATER

Water required for water jetting, flooding, testing, flushing, disinfecting, and construction shall be obtained at the CONTRACTOR's expense and shall be included (subsidiary to contract) in the Contract prices. CONTRACTOR shall provide all labor, materials, and equipment for making connections (temporary or permanent) to existing water facilities, for metering the water used, and for removal of temporary connections.

37.0 ELECTRICITY

Electricity may not be available at the site at the time of construction. CONTRACTOR shall make all temporary power connections at the existing power poles along the site and shall make provisions to furnish other power as required to complete the specified work at this site.

38.0 WORKING HOURS

The CONTRACTOR shall submit to the OWNER prior to construction, a construction schedule which shall meet the OWNER's approval before construction can begin. The CONTRACTOR shall perform all construction activities between 8:00 a.m. to 5:00 p.m., Monday through Friday. However, the CONTRACTOR may be allowed to work weekends and holidays upon the OWNER's written approval.

39.0 SANITARY FACILITIES

The CONTRACTOR shall provide chemical toilet facilities for the use of his forces. Adequacy of these facilities will be subject to the approval of the Engineer and maintenance of same must be satisfactory to the Engineer at all times. All sanitary facilities shall be the sole responsibility of the CONTRACTOR and shall be included in the Contract Price, and no separate payment shall be made.

40.0 PARKING

SECTION 00800
SUPPLEMENTAL CONDITIONS

The CONTRACTOR shall be responsible for the expense of parking its and its employees' vehicles in a legal manner at no expense or inconvenience to OWNER or other Contractors in the area.

41.0 MEASUREMENT AND PAYMENT

Unless otherwise stated, it is understood that all payments made are for finished work and include all labor, tools, materials, appurtenances, constructing and completing the item on which payment is made.

42.0 DRUG AND FIREARM POLICY

OWNER has advised CONTRACTOR of OWNER's policy pursuant to which OWNER prohibits the use, possession, sale, transfer, and/or storage of firearms, prohibited drugs or alcohol on its premises by its employees. Further no hunting is allowed on the premises. This policy also applies to those employees of CONTRACTOR who perform work for OWNER. CONTRACTOR specifically acknowledges its understanding of and familiarity with OWNER's policies, procedures and restrictions concerning the influence, use or presence of drugs, alcohol, and/or firearms at the Project and agrees to be bound by and fully comply with the same. Further, CONTRACTOR agrees that the foregoing shall apply to its employees and those of its subcontractors and hereby agrees to insure that all personnel engaged in the Work are aware of and familiar with OWNER's policies, procedures and restrictions and to remove from the Project and replace any personnel CONTRACTOR believes to be in violation thereof. It is understood and agreed that OWNER shall have the right to require the removal and replacement of any person or entity not adhering to such requirements. CONTRACTOR shall include the foregoing provisions in each of its subcontracts relating to the Project in order that the terms of this Section 50 shall fully apply to such parties.

43.0 PERFORMANCE, PAYMENT, AND MAINTENANCE BONDS

It is further agreed by the Parties to this CONTRACT that the CONTRACTOR will execute separate Performance, Payment, and Maintenance Bonds. The Performance and Payment Bonds shall be in a sum equal to 100% of the total CONTRACT price. The Maintenance Bond shall be equal to 100% of the CONTRACT price. All bonds shall be in standard forms for this purpose guaranteeing payment to all persons supplying labor and materials or furnishing him any equipment in the execution of the CONTRACT. It is agreed that the CONTRACT shall not be in effect until such performance and payment bonds are furnished and approved by OWNER and that final retainage shall not be paid until such maintenance bond is furnished and approved by the OWNER. The cost of the premium for the performance, payment and maintenance bonds shall be included in the price bid by the CONTRACTOR FOR work under this CONTRACT, and no extra payment for such bonds will be made by the OWNER. The surety company or companies underwriting the performance, payment, and maintenance bonds shall be acceptable according to the latest list of companies holding certificates of authority from the Secretary of the Treasury of the United States. Furthermore, the surety company or companies shall be duly authorized to act under the laws of the State of Texas as Surety,

SECTION 00800
SUPPLEMENTAL CONDITIONS

and shall be approved by the OWNER. The maintenance bond may also include naming any governmental authority required for final approval and or acceptance. The maintenance bond shall be effective for a period of 1 year after the date of final acceptance.

44.0 SCHEDULE OF VALUES

The CONTRACTOR shall submit a schedule of values at the request of the OWNER or the ENGINEER. The schedule of values is defined as a breakdown of any bid item into its individual component costs. The costs include, but are not limited to, bonds, separate work items, labor, and material.

45.0 CONTRACT DELAYS AND REINSPECTION

The CONTRACTOR shall reimburse OWNER for all additional Engineering and Inspection Cost that are a result of failed test or incorrect work where re-inspections or re-testing and or more field observations are required or where the work extends past the allotted time resulting in a longer period of Construction Services by the ENGINEER. Each month ENGINEER will invoice OWNER separately for re-inspections and re-testing. Such invoice amounts will be deducted from CONTRACTOR's Partial Pay Requests.

Exhibit A to Contract Agreement
Owner's Insurance Requirements of Contractor

1. Specific Insurance Requirements

The following insurance shall be maintained in effect with limits not less than those set forth below at all times during the term of this Agreement and thereafter as required:

| Insurance | Coverage/Limits | Other Requirements |
|---|--|---|
| Commercial General Liability (Occurrence Basis) | Amounts of coverage shall be no less than: <ul style="list-style-type: none"> ▪ \$1,000,000 Per Occurrence ▪ \$2,000,000 General Aggregate ▪ \$2,000,000 Products/Completed Operations Aggregate ▪ \$1,000,000 Personal and Advertising Injury ▪ Designated Construction Project(s) General Aggregate Limit | <ul style="list-style-type: none"> ▪ Current ISO edition of CG 00 01 ▪ Additional insured status shall be provided in favor of Owner Parties on a combination of ISO forms CG 20 10 04 13 and CG 20 37 04 13. ▪ This coverage shall be endorsed to provide primary and non-contributing liability coverage. It is the intent of the parties to this Agreement that all insurance coverage required herein shall be primary to and will not seek contribution from any other insurance held by Owner Parties, with Owner Parties' insurance being excess, secondary and non-contributing. ▪ Stop Gap coverage shall be provided if any work is to be performed in a monopolistic workers' compensation state. ▪ The following exclusions/limitations (or their equivalent(s), are prohibited: <ul style="list-style-type: none"> ○ Contractual Liability Limitation CG 21 39 ○ Amendment of Insured Contract Definition CG 24 26 ○ Limitation of Coverage to Designated Premises or Project, CG 21 44 ○ Exclusion-Damage to Work Performed by Subcontractors on Your Behalf, CG 22 94 or CG 22 95 ○ Exclusion-Explosion, Collapse and Underground Property Damage Hazard, CG 21 42 or CG 21 43 ○ Any Classification limitation ○ Any Construction Defect Completed Operations exclusion ○ Any endorsement modifying the Employer's Liability exclusion or deleting the exception to it ○ Any endorsement modifying or deleting Explosion, Collapse or Underground coverage ○ Any Habitational or Residential exclusion applicable to the Work ○ Any "Insured vs. Insured" exclusion except Named Insured vs. Named Insured ○ Any Punitive, Exemplary or Multiplied Damages exclusion ○ Any Subsidence exclusion |

| | | |
|--|---|---|
| Business Auto Liability | <p>Amount of coverage shall be no less than:</p> <ul style="list-style-type: none"> ▪ \$1,000,000 Per Accident | <ul style="list-style-type: none"> ▪ Current ISO edition of CA 00 01 ▪ Arising out of any auto (Symbol 1), including owned, hired and non-owned |
| Workers' Compensation and Employer's Liability | <p>Amounts of coverage shall be no less than:</p> <ul style="list-style-type: none"> ▪ Statutory Limits ▪ \$1,000,000 Each Accident and Disease ▪ Alternate Employer endorsement ▪ USL&H must be provided where such exposure exists. | <ul style="list-style-type: none"> ▪ The State in which work is to be performed must listed under Item 3.A. on the Information Page ▪ Such insurance shall cover liability arising out of the Contractor's employment of workers and anyone for whom the Contractor may be liable for workers' compensation claims. Workers' compensation insurance is required, and no "alternative" forms of insurance shall be permitted. ▪ Where a Professional Employer Organization (PEO) or "leased employees" are utilized, Contractor shall require its leasing company to provide Workers' Compensation insurance for said workers and such policy shall be endorsed to provide an Alternate Employer endorsement in favor of Contractor and Owner. Where Contractor uses leased employees with Workers' Compensation insurance provided by a PEO or employee leasing company, Contractor is strictly prohibited from subletting any of its work without the express written agreement of Owner. |
| Excess Liability (Occurrence Basis) | <p>Amounts of coverage shall be no less than:</p> <ul style="list-style-type: none"> ▪ \$5,000,000 Each Occurrence ▪ \$5,000,000 Annual Aggregate | <ul style="list-style-type: none"> ▪ Such insurance shall be excess over and be no less broad than all coverages described above. ▪ Drop-down coverage shall be provided for reduction and/or exhaustion of underlying aggregate limits and shall include a duty to defend any insured. |
| Professional Liability | <p>Amounts of coverage shall be no less than:</p> <ul style="list-style-type: none"> ▪ \$1,000,000 Each Occurrence ▪ \$2,000,000 Annual Aggregate ▪ If a combined Contractor's Pollution Liability and Professional Liability policy is utilized, the limits shall be \$3,000,000 Each Loss and Aggregate. ▪ Such insurance shall cover all services rendered by the Contractor and its consultants under the Agreement, including but not limited to design or design/build services. ▪ Policies written on a Claims-Made basis shall be maintained for at least two years beyond termination of the Agreement. | <ul style="list-style-type: none"> ▪ Such insurance shall cover all services rendered by the Contractor and its subcontractors under the Agreement. ▪ This insurance is not permitted to include any type of exclusion or limitation of coverage applicable to claims arising from: <ul style="list-style-type: none"> ○ bodily injury or property damage where coverage is provided in behalf of design professionals or design/build contractors ○ habitational or residential operations ○ mold and/or microbial matter and/or fungus and/or biological substance ○ punitive, exemplary or multiplied damages. ▪ Any retroactive date must be effective prior to beginning of services for the Owner. ▪ Policies written on a Claims-Made basis shall have an extended reporting period of at least |

| | | |
|--|--|--|
| | | <p>two years beyond termination of the Agreement. Vendor shall trigger the extended reporting period if identical coverage is not otherwise maintained with the expiring retroactive date.</p> |
| <p>Contractors Pollution Liability</p> | <p>Amounts of coverage shall be no less than:</p> <ul style="list-style-type: none"> ▪ \$1,000,000 Each Loss ▪ \$2,000,000 Annual Aggregate ▪ If a combined Contractor’s Pollution Liability and Professional Liability policy is utilized, the limits shall be \$3,000,000 Each Loss and Aggregate. ▪ The policy must provide coverage for: <ul style="list-style-type: none"> ○ the full scope of the named insured’s operations (on-going and completed) as described within the scope of work for this Agreement ○ loss arising from pollutants including but not limited to fungus, bacteria, biological substances, mold, microbial matter, asbestos, lead, silica and contaminated drywall ○ third party liability for bodily injury, property damage, clean up expenses, and defense arising from the operations; ○ diminution of value and Natural Resources damages ○ contractual liability ○ claims arising from non-owned disposal sites utilized in the performance of this Agreement. | <ul style="list-style-type: none"> ▪ The policy must insure contractual liability, name Owner Parties as an Additional Insured, and be primary and noncontributory to all coverage available to the Additional Insured. ▪ This insurance is not permitted to include any type of exclusion or limitation of coverage applicable to claims arising from: <ul style="list-style-type: none"> ○ Insured vs. insured actions. However, exclusion for claims made between insured within the same economic family are acceptable. ○ impaired property that has not been physically injured ○ materials supplied or handled by the named insured. However, exclusions for the sale and manufacture of products are allowed. Exclusionary language pertaining to materials supplied by the insured shall be reviewed by the certificate holder for approval. ○ property damage to the work performed by the contractor ○ faulty workmanship as it relates to clean up costs ○ punitive, exemplary or multiplied damages ○ work performed by subcontractors ▪ If coverage is provided on a Claims Made basis, coverage will at least be retroactive to the earlier of the date of this Agreement or the commencement of contractor services relation to the Work. ▪ The policy will offer an extended discovery or extended reporting clause of at least three (3) years. ▪ Completed Operations coverage shall be maintained through the purchase of renewal policies to protect the insured and additional insured for at least two (2) years after the property owner accepts the project or this contract is terminated. The purchase of an extended discovery period or an extended reporting period on a Claims Made policy or the purchase of occurrence-based Contractors Environmental Insurance will not be sufficient to meet the terms of this provision. |

| | | |
|-----------------------------|--|--|
| <p>Builders Risk</p> | <ul style="list-style-type: none"> ▪ Coverage shall be provided in an amount equal at all times to the full contract value, including change orders, and cost of debris removal for any single occurrence. ▪ Coverage shall be at least as broad as an unmodified ISO Special form, shall be provided on a completed-value basis, and shall be primary to any other insurance coverage available to the named insured parties, with that other insurance being excess, secondary and non-contributing. ▪ The policy must provide coverage for: <ul style="list-style-type: none"> ○ Agreed Value Included ○ Damage arising from error, omission or deficiency in construction methods, design, specifications, workmanship or materials, including collapse Included ○ Debris removal additional limit \$1,000,000 ○ Earthquake and Earthquake Sprinkler Leakage \$5,000,000 ○ Flood \$5,000,000 ○ Freezing Included ○ Mechanical breakdown including hot & cold testing Included ○ Ordinance or law \$1,000,000 ○ Pollutant clean-up and removal \$ 25,000 ○ Preservation of property Included ○ Theft Included • Deductible shall not exceed \$10,000 <ul style="list-style-type: none"> ○ All Risks of Direct Damage, Per Occurrence, except 2% subject to \$50,000 minimum ○ Named Storm, Earthquake and Earthquake Sprinkler Leakage, Per Occurrence \$100,000 ○ Flood, Per Occurrence or excess of NFIP if in Flood Zone A or V \$100,000 | <ul style="list-style-type: none"> ▪ Insureds shall include Owner, General Contractor, all Loss Payees and Mortgagees, and subcontractors of all tiers in the Work as Insureds. ▪ Such insurance shall cover: <ul style="list-style-type: none"> ○ all structure(s) under construction, including retaining walls, paved surfaces and roadways, bridges, glass, foundation(s), footings, underground pipes and wiring, excavations, grading, backfilling or filling; all temporary structures (e.g., fencing, scaffolding, cribbing, false work, forms, site lighting, temporary utilities and buildings) located at the site; ○ all property including materials and supplies on site for installation; ○ all property including materials and supplies at other locations but intended for use at the site; ○ all property including materials and supplies in transit to the site for installation by all means of transportation other than ocean transit; and ○ other Work at the site identified in the Agreement to which this Exhibit is attached. • No protective safeguard warranty shall be permitted. • The termination of coverage provision shall be endorsed to permit occupancy of the covered property being constructed. This insurance shall be maintained in effect, unless otherwise provided for the Agreement Documents, until the earliest of: <ul style="list-style-type: none"> ○ the date on which all persons and organizations who are insureds under the policy agree that it shall be terminated; ○ occupancy, in whole or in part; ○ the date on which release of substantial completion is executed; or ○ the date on which the insurable interests of Contractor in the Covered Property has ceased. • A waiver of subrogation provision shall be provided in favor of all insureds. |
|-----------------------------|--|--|

Unmanned Aerial Vehicle Liability Insurance. If Contractor uses unmanned aerial vehicles (UAV – common referred to as drones) at the Site or in support of any aspect of the work, Contractor shall obtain UAV liability insurance in the amount of \$XX per claim/\$XX general aggregate, name Owner, Engineer, and all individuals and entities identified in the Supplementary Conditions as additional insureds; and provide a certificate to Owner confirming Contractor’s compliance with this requirement. Such insurance will provide coverage for property damage, bodily injury or death, and invasion of privacy.

2. General Insurance Requirements

A. Definitions. For purposes of this Agreement:

- i. “ISO” means Insurance Services Office.
- ii. “Contractor” shall include the Builder and its subcontractors of any tier.
- iii. “Owner Parties” means (a) City of Dripping Springs, Texas (collectively referred to as “Owner”), (b) the Project, (c) any lender whose loan is secured by a lien against the Work, (d) their respective shareholders, members, partners, joint venturers, affiliates, subsidiaries, successors and assigns, (e) any directors, officers, employees, or agents of such persons or entities, and (f) others as required by the Contract Documents.

B. Policies.

- i. Contractor shall maintain such Excess Liability, Professional and Pollution insurance in identical coverage, form and amount, including required endorsements, for at least two (2) years following Date of Substantial Completion of the Work to be performed under this Agreement. Contractor shall maintain such General Liability insurance in identical coverage, form and amount, including required endorsements, for at least ten (10) years following Date of Substantial Completion of the Work to be performed under this Agreement. Contractor shall provide written representation to Owner stating Work completion date.
- ii. All policies must:
 - a. Be written through insurance companies authorized to do business in the State in which the work is to be performed and rated no less than A-: VII in the most current edition of A. M. Best’s Key Rating Guide at all times Work is to be performed.
 - b. Provide a waiver of subrogation in favor of Owner Parties on all insurance coverage carried by Contractor, whether required herein or not.
 - c. Contain an endorsement providing for thirty (30) days prior written notice of cancellation to Owner.
 - d. Be provided to the Owner Parties in compliance with the requirements herein and shall contain no endorsements that restrict, limit, or exclude coverage required herein in any manner without the prior express written approval of the Owner.
- iii. Failure of any Owner Party to demand such certificate or other evidence of full compliance with these insurance requirements or failure of any Owner Party to identify a deficiency from evidence that is provided shall not be construed as a waiver of the Contractor’s obligation to maintain such insurance.
- iv. Contractor shall provide to the Owner a certified copy of all insurance policies required herein within ten (10) days of any such request. Renewal policies, if necessary, shall be delivered to the Owner prior to the expiration of the previous policy.
- v. Commencement of Work without provision of the required certificate of insurance, evidence of insurance or required endorsements, or without compliance with any other provision of this Agreement, shall not constitute a waiver by any Owner Party of any rights. The Owner shall have the right, but not the obligation, of prohibiting the Contractor or any subcontractor from performing any Work until such certificate of insurance, evidence of insurance and/or required endorsements are received and approved by the Owner.

C. Limits, Deductibles and Retentions

- i. The limits of liability may be provided by a single policy of insurance or by a combination of primary and excess policies, but in no event shall the total limits of liability available for any one occurrence or accident be less than the amount required herein.

- ii. No deductible or self-insured retention shall exceed \$25,000 without prior written approval of the Owner, except as otherwise specified herein. All deductibles or retentions shall be paid by, assumed by, for the account of, and at the Contractor's sole risk. The Contractor shall not be reimbursed for same.

D. Forms

- i. If the forms of policies, endorsements, certificates or evidence of insurance required by this Exhibit A are superseded or discontinued, Owner will have the right to require other equivalent forms.
- ii. Any policy or endorsement form other than a form specified in this Exhibit A must be approved in advance by Owner.

E. Evidence of Insurance. Insurance must be evidenced as follows:

- i. ACORD Form 25 Certificate of Liability Insurance for liability coverages.
- ii. ACORD Form 28 Evidence of Commercial Property Insurance for property coverages.
- iii. Evidence shall be provided to Owner prior to commencing Work and prior to the expiration of any required coverage.
- iv. ACORD Forms specify:
 - a. Owner as certificate holder at Owner's mailing address;
 - b. Insured's name, which must match that on this Agreement;
 - c. Insurance companies producing each coverage and the policy number and policy date of each coverage;
 - d. Producer of the certificate with correct address and phone number and have the signature of the authorized representative of the producer;
 - e. Additional Insured status in favor of Owner Parties;
 - f. Amount of any deductible or self-insured retention in excess of \$25,000;
 - g. Designated Construction Project(s) General Aggregate Limit;
 - h. Primary and non-contributory status;
 - i. Waivers of subrogation; and
 - j. All exclusions and limitations added by endorsement to the General Liability coverage. This can be achieved by attachment of the Schedule of Forms and Endorsements page.
- v. Copies of the following shall also be provided:
 - a. General Liability Additional insured endorsement(s);
 - b. General Liability Schedule of Forms and Endorsements page(s); and
 - c. 30 Day Notice of Cancellation endorsement applicable to all required policies.

F. Contractor Insurance Representations to Owner Parties

- i. It is expressly understood and agreed that the insurance coverages required herein (a) represent Owner Parties' minimum requirements and are not to be construed to void or limit the Contractor's indemnity obligations as contained in this Agreement nor represent in any manner a determination of the insurance coverages the Contractor should or should not maintain for its own protection; and (b) are being, or have been, obtained by the Contractor in support of the Contractor's liability and indemnity obligations under this Agreement. Irrespective of the requirements as to insurance to be carried as provided for herein, the insolvency, bankruptcy or failure of any insurance company carrying insurance of the Contractor, or the failure of any insurance company to pay claims accruing, shall not be held to affect, negate or waive any of the provisions of this Agreement.
- ii. Failure to obtain and maintain the required insurance shall constitute a material breach of, and default under, this Agreement. If the Contractor shall fail to remedy such breach within five (5) business days after notice by the Owner, the Contractor will be liable for any and all costs, liabilities, damages and penalties resulting to the Owner Parties from such breach, unless a written waiver of the specific insurance requirement(s) is provided to the Contractor by the Owner. In the event of any failure by the Contractor to comply with the provisions of this Agreement, the Owner may, without in any way compromising or waiving any right or remedy at law or in equity, on notice to the Contractor, purchase such insurance, at the Contractor's expense, provided that the Owner shall have no obligation to do so and if the Owner shall do so, the Contractor shall

not be relieved of or excused from the obligation to obtain and maintain such insurance amounts and coverages.

- iii. This Exhibit A is an independent contract provision and shall survive the termination or expiration of the Contract Agreement.

G. Insurance Requirements of Contractor's Subcontractors

- i. Insurance similar to that required of the Contractor shall be provided by all subcontractors (or provided by the Contractor on behalf of subcontractors) to cover operations performed under any subcontract agreement. The Contractor shall be held responsible for any modification in these insurance requirements as they apply to subcontractors. The Contractor shall maintain certificates of insurance from all subcontractors containing provisions similar to those listed herein (modified to recognize that the certificate is from subcontractor) enumerating, among other things, the waivers of subrogation, additional insured status, and primary liability as required herein, and make them available to the Owner upon request.
- ii. The Contractor is fully responsible for loss and damage to its property on the site, including tools and equipment, and shall take necessary precautions to prevent damage to or vandalism, theft, burglary, pilferage and unexplained disappearance of property. Any insurance covering the Contractor's or its subcontractor's property shall be the Contractor's and its subcontractor's sole and complete means or recovery for any such loss. To the extent any loss is not covered by said insurance or subject to any deductible or co-insurance, the Contractor shall not be reimbursed for same. Should the Contractor or its subcontractors choose to self-insure this risk, it is expressly agreed that the Contractor hereby waives, and shall cause its subcontractors to waive, any claim for damage or loss to said property in favor of the Owner Parties.

H. Use of the Owners Equipment

The Contractor, its agents, employees, subcontractors or suppliers shall use the Owners equipment only with express written permission of the Owners designated representative and in accordance with the Owners terms and condition for such use. **IF THE CONTRACTOR OR ANY OF ITS AGENTS, EMPLOYEES, SUBCONTRACTORS OR SUPPLIERS UTILIZE ANY OF THE OWNERS EQUIPMENT FOR ANY PURPOSE, INCLUDING MACHINERY, TOOLS, SCAFFOLDING, HOISTS, LIFTS OR SIMILAR ITEMS OWNED, LEASED OR UNDER THE CONTROL OF THE OWNER, THE CONTRACTOR SHALL DEFEND, INDEMNIFY AND BE LIABLE TO THE OWNER PARTIES FOR ANY AND ALL LOSS OR DAMAGE WHICH MAY ARISE FROM SUCH USE.**

I. Release and Waiver

The Contractor hereby releases, and shall cause its subcontractors to release, the Owner Parties from any and all claims or causes of action whatsoever which the Contractor or its subcontractors might otherwise now or hereafter possess resulting in or from or in any way connected with any loss covered by insurance, whether required herein or not, or which should have been covered by insurance required herein, including the deductible or uninsured portion thereof, maintained or required to be maintained by the Contractor or its subcontractors pursuant to this Agreement. **THE FOREGOING RELEASE AND WAIVER APPLY EVEN IF THE LOSS OR DAMAGE IS CAUSED IN WHOLE OR IN PART BY THE FAULT OR NEGLIGENCE OR STRICT LIABILITY OF THE OWNER PARTIES.**

ATTACHMENT "B"

CITY OF DRIPPING SPRINGS CONTRACTOR INSURANCE REQUIREMENTS:

Firm providing goods, materials and services for the City of Dripping Springs shall, during the term of the contract with the City of Dripping Springs or any renewal or extension thereof, provide and maintain the types and amounts of insurance set forth herein. All insurance and certificate(s) of insurance shall contain the following provisions:

1. Name the City of Dripping Springs as additional named insured as to all applicable coverage.
2. Provide for at least thirty (30) days prior written notice to the City of Dripping Springs for cancellation, non-renewal, or material change of the insurance.
3. Provide for a waiver of subrogation against the City of Dripping Springs for injuries, including death, property damage, or any other loss to the extent the same is covered by the proceeds of insurance.

Insurance Company Qualification: All insurance companies providing the required insurance shall be authorized to transact business in Texas and rated at least "A" by AM Best or other equivalent rating service.

Certificate of Insurance: Certificates of Insurance evidencing all of the required insurance coverages shall be submitted with the Firm's submission. Copies of any modifications, amendments, renewals, or terminations of any coverage shall be promptly submitted to the City. If the contract is extended by the City of Dripping Springs, certificates of insurance evidencing all of the required insurance coverages shall be provided to the City prior to the date the contract is extended.

Type of Contract and Amount of Insurance:

- Statutory Workers Compensation insurance as required by state law.
- Commercial General Liability minimum limits of \$500,000 per occurrence for bodily injury, personal injury, and property damage.
- Automobile Liability with a minimum of \$500,000 Dollars combined single limit.

SECTION 01000 GENERAL REQUIREMENTS

1.01 SCOPE OF WORK

The City of Dripping Springs, Texas will accept competitive sealed proposals for construction of the City of Dripping Springs South Regional Wastewater System Howard Ranch Treated Effluent Fill Station. The Project will include installing a 2” CLA-VAL altitude control valve, pipe reducer, and concrete utility vault into existing 2” and 4” treated effluent lines; and the installation of a 2” irrigation meter in a concrete utility vault. The Work to be performed includes furnishing all necessary supervision, machinery, insurance, materials, equipment, tools, and labor necessary for the design, fabrication, material delivery, erection and construction, painting, inspection, and testing to complete the Work.

1.02 GOVERNING TECHNICAL SPECIFICATIONS

The City of Austin Standard Construction Specifications current at the time of bidding shall govern materials and methods used to do the work, and are made a part of this Contract. Whenever the term “City of Austin” is used in the City of Austin Specifications, it shall be construed to mean “OWNER, and or its designated representative.” Whenever the term “ENGINEER” is used in the City of Austin Specifications, it shall be construed to mean Burgess & Niple, Inc. Technical Specifications provided are intended to supplement the City Standard Specifications, not to replace them. Any discrepancies between the City Standard Specifications and the terms of this Contract shall be reported to the Engineer, who shall determine which specification shall govern.

Additional Requirements:

1. Requirements for revegetation cover completeness shall be in accordance with Hays County (70%).
2. Materials used on this project do not have to be American made. However, all products and vendors used shall be on the City of Austin approved list.
3. A valve casing for an underground isolation valves for Treated Effluent Lines must have “**REUSE**” cast into its lid.

1.03 SCOPE, NATURE, & INTENT OF SPECIFICATIONS AND PLANS

The Specifications and Plans are intended to supplement but not necessarily duplicate each other. Any work exhibited in the one and not the other shall be executed as if it had been set for in both.

Should anything necessary for a clear understanding of the work be omitted from the Plans and Specifications, or should the requirements appear to be in conflict, the CONTRACTOR shall secure written instructions from the ENGINEER before proceeding. It is understood and agreed that the work shall be performed according to the intent of the Contract Documents. The CONTRACTOR shall

SECTION 01000 GENERAL REQUIREMENTS

notify the ENGINEER of any discrepancy between the Plans and the conditions on the ground, or any error or omission in Plans, or in layout or instructions, which may be discovered in the course of the work. The CONTRACTOR will not take advantage of any error or omission in the Plans or Contract Documents. Full instructions will be furnished by the ENGINEER should any error or omission be discovered.

1.04 CONFLICTS

All construction shall be in accordance with the requirements of the Texas Commission on Environmental Quality and City of Austin. In case of conflicts between these requirements, the Contractor shall notify the ENGINEER who shall determine which requirements apply.

1.05 SAFETY PRECAUTIONS, PROGRAMS AND TRENCH SAFETY SYSTEMS

It shall be the duty and responsibility of the CONTRACTOR and all of its subcontractors to be familiar and comply with all requirements of Public Law 91-596, 29 U.S.C. Secs. 651 et. seq., the Occupational Safety and Health Act of 1970 (OSHA) and all amendments thereto, and to enforce and comply with all provision of this act.

The CONTRACTOR and all of its subcontractors shall comply with all requirements of 29 C.F.R. Secs. 1926.652 and 1926.653, OSHA Safety and Health Standards, and H.B. 662, Acts of the 70th Legislature, Regular Session, and shall submit a unit price for the particular safety systems to be utilized by the CONTRACTOR for all trench excavations which exceed a depth of five feet (5').

Before commencing any trench excavation, which will exceed a depth of five feet, the CONTRACTOR shall provide the ENGINEER and OWNER with detailed plans and specifications regarding the safety systems to be utilized. Said plans and specifications shall include a certification from a registered professional engineer indicating full compliance with the OSHA provisions cited above.

1.06 MATERIALS

These Specifications are intended to be so written that only materials of the best quality and grade will be furnished. The fact that the Specifications may fail to be sufficiently complete in some detail will not relieve the CONTRACTOR of full responsibility for providing material of high quality and protecting them adequately until incorporation in the structure. The Specifications for materials set out the minimum standard of quality which the OWNER believes necessary to produce a satisfactory project. No substitutions will be permitted until the CONTRACTOR has received written permission of the ENGINEER to make a substitution for the material which has been specified.

SECTION 01000
GENERAL REQUIREMENTS

Reference to the standard technical society, organization, or association, or to codes of local and state authorities, shall mean the latest standard, code, specification, or tentative specification adopted and published at the date of taking bids, unless specifically stated otherwise. Reference to technical society, organization or body is made in Specifications in accordance with the following abbreviations:

| | |
|--------|---|
| AASHO | American Association of State Highway Officials |
| AIA | American Institute of Architects |
| ACI | American Concrete Institute |
| AGA | American Gas Association |
| AGMA | American Gear Manufacturer's Association |
| AISI | American Institute and Steel Institute |
| AISC | American Institute of Steel Construction |
| AMCA | Air Moving and Conditioning Association |
| ANSI | American National Standard Institute |
| API | American Petroleum Institute |
| ASA | American Standards Association |
| ASHRAE | American Society of Heating, Refrigeration and Air Conditioning Engineers |
| ASME | American Society of Mechanical Engineers |
| ASTM | American Society of Testing Materials |
| AWSC | American Welding Society Code |
| AWWA | American Water Works Association |
| CSI | Construction Specification Institute |
| FIA | Factory Insurance Association |
| FM | Factory Manual |
| FS | Federal Specification |
| IEEE | Institute of Electrical and Electronic Engineers |
| IPCEA | Insulated Power Cable Engineers Association |
| NAAMM | National Association of Architectural Metal Manufacturers |
| NBFU | National Board of Fire Underwriters |
| NEC | National Electric Code |
| NEMA | National Electrical Manufacturers Association |
| NFPA | National Fire Protection Association |
| NBS | National Bureau of Standards |
| OSHA | Federal Occupational Safety & Health Act, 1970 |
| PCI | Prestressed Concrete Institute |
| SMACNA | Sheet Metal and Air Conditioning Contractors National Association, Incorporated |
| SPR | Simplified Practice Recommendation |
| UBC | Uniform Building Code |
| UL | Underwriters Laboratory |

1.07 MOBILIZATION and DEMOBILIZATION

SECTION 01000
GENERAL REQUIREMENTS

1.07.01 Mobilization

CONTRACTOR shall mobilize all required material, equipment, and labor to the site and place in an operational mode. This may include establishment of an office trailer and/or storage area for CONTRACTOR's use at the site, and mobilization of health and safety equipment, fuel, water, wastewater, and trash handling facilities, and all other equipment necessary to complete the specified work. If a construction trailer is used, CONTRACTOR shall be responsible for connection and disconnection of all utilities services and temporary sewage holding tank (if used) for the trailer. The office trailer shall be kept clean, dry, and serviceable by the CONTRACTOR throughout the duration of the Contract. Measurement Payment of the Specification Item, "Mobilization", will be by the "Lump Sum", as the Work progresses and as described below:

a. Mobilization shall not be greater than 5% of the Contract amount.

b. Partial payments for Mobilization shall be as follows:

1. Upon presentation of a paid invoice for the Payment Bond, Performance Bond, and/or required insurance, the Contractor will be paid that cost from the Lump Sum amount bid for Mobilization, but in no instance more than 50% of the Mobilization. Subsequent Mobilization payments shall be made as outlined in paragraphs 2 through 5.

2. The Mobilization of tunnel boring machines, tapping machines, cranes, batch plants or other similar facilities, along with supporting materials and equipment, to the work site will be considered as partial Mobilization under this contract. The Contractor shall provide a certified statement of his expenditure for the Mobilization and setup of the facility and supporting equipment. Upon approval by the Engineer or designated representative, the certified expenditure will be paid from the Lump Sum amount bid for Mobilization.

3. When 25 percent of the contract amount is earned, 50 percent of the Mobilization will be paid. Previous payments under this item will be deducted from this amount.

4. When 50 percent of the contract amount is earned, 75 percent of the Mobilization will be paid. Previous payments under this item will be deducted from this amount.

5. When 75 percent of the contract amount is earned, 100 percent of the Mobilization will be paid. Previous payments under this item will be deducted from this amount.

1.07.02 Demobilization

SECTION 01000
GENERAL REQUIREMENTS

Upon completion of the Work in this Contract, CONTRACTOR shall demobilize all materials and debris, equipment, storage facilities, office trailer and related items, and labor from the job site, including concrete footings and slabs, and temporary erosion control devices. In addition, all office, storage, and work areas shall be smoothed and graded in a manner to conform to the natural appearance of surrounding landscape. Where unnecessary destruction, scarring, damage, or defacing may have occurred as a result of the CONTRACTOR's operations, the same shall be repaired, replanted, reseeded, or otherwise corrected at the CONTRACTOR's expense.

1.08 CLEAN UP

1.08.01 Construction Site

During construction the CONTRACTOR shall keep the site free and clean from all rubbish and debris and shall clean up the site promptly and when notified to do so by the Engineer or OWNER.

The CONTRACTOR shall, at his own expense, maintain the streets and roads free from dust, mud, excess earth or debris which constitutes a nuisance or danger to the public using the thoroughfare, or the occupants of adjacent properties. Care shall be taken to prevent spillage or debris deposited on streets, due to the CONTRACTOR's operations, and shall be immediately removed.

1.08.02 Back Work

The CONTRACTOR shall coordinate his operations in such a manner as to prevent the amount of clean up and completion of back work from becoming excessive. Should such a condition exist, the Engineer may order all or portions of the work to cease and refuse to allow any work to commence until the back work is done to the Engineer's satisfaction.

SECTION 01300 SUBMITTALS

PART 1: GENERAL

1.01 DESCRIPTION OF REQUIREMENTS

- A. The CONTRACTOR shall furnish submittals for any and all such parts of the work and equipment as set forth in the specifications and indicated on the plans. The procedures for review of the submittals shall be as described herein.
- B. The CONTRACTOR's Bid shall include the costs associated with preparation of and processing all required submittals. This includes all costs associated with providing information required to meet the requirements specified herein.
- C. All submittals shall be individually identified by reference to Specification Section, Paragraph, Drawing Number or Detail as applicable.
- D. This Section specifies the general methods and requirements of submissions applicable to the following work-related submittals for the General Contractor: Shop Drawings, Product Data, Samples, Mock Ups, and Construction or Submittal Schedules. Detailed submittal requirements may be further specified in the technical specifications sections. Subcontractor and suppliers will be required to assist the CONTRACTOR with submittal preparation as described herein for all supplied equipment.

1.02 SHOP DRAWINGS, PRODUCT DATA, SAMPLES

- A. Shop Drawings
1. Shop drawings, as specified in individual work Sections include, but are not necessarily limited to, custom-prepared data such as fabrication and erection/installation (working) drawings, scheduled information, setting diagrams, actual shopwork manufacturing instructions, custom templates, special wiring diagrams, coordination drawings, design calculations, individual system or equipment inspection, and test reports including performance curves and certifications, as applicable to the Work.
 2. All shop drawings as described above shall be signed and sealed by a Licensed Engineer in the State of Texas.
 3. All shop drawings submitted by subcontractors and/or suppliers for approval shall be sent directly to the CONTRACTOR for checking. The CONTRACTOR shall be responsible for their submission at the proper time so as to prevent delays in delivery of materials.
 4. The CONTRACTOR shall check all subcontractor and supplier shop drawings regarding measurements, size of members, materials, and details to satisfy him or herself that they conform to the intent of the Drawings and Specifications. Shop drawings found to be inaccurate or otherwise in error shall be returned to the subcontractors by CONTRACTOR for correction before submission thereof.

SECTION 01300 SUBMITTALS

5. All details on shop drawings submitted for approval shall show clearly the relation of the various parts to the main members and lines of the structure, and where correct fabrication of the work depends upon field measurements such measurements shall be made and noted on the drawings before being submitted for approval.

B. Product Data

1. Product data as specified in individual Sections, include, but are not necessarily limited to, standard prepared data for manufactured products (sometimes referred to as catalog data and/or cut sheets), such as the manufacturer's product specification and installation instructions, availability of colors and patterns, manufacturer's printed statements of compliances and applicability, roughing-in diagrams and templates, catalog cuts, product photographs, standard wiring diagrams, printed performance curves and operational-range diagrams, production or quality control inspection and test reports and certifications, mill reports, product operating and maintenance instructions and recommended spare-parts listing and printed product warranties, as applicable to the Work.

C. Samples

1. Samples specified in individual Sections, include, but are not necessarily limited to, physical examples of the work such as sections of manufactured or fabricated work, small cuts or containers of materials, complete units of repetitively-used products, color/texture/pattern swatches and range sets, specimens for coordination of visual effect, graphic symbols and units of work to be used by the Engineer or OWNER for independent inspection and testing, as applicable to the Work.

1.03 CONTRACTOR'S RESPONSIBILITIES

A. The CONTRACTOR shall review shop drawings, product data and samples, including those by subcontractors, prior to submission to determine and verify the following:

1. Field measurements
2. Field construction criteria
3. Catalog numbers and similar data
4. Conformance with the Specifications

B. Each shop drawing, sample and product data submitted by the CONTRACTOR shall have affixed to it the following Certification Statement including the CONTRACTOR's Company name and signed by the CONTRACTOR:

"Certification Statement: by this submittal, I hereby represent that I have fulfilled all obligations regarding verifying and determining field measurements, field construction criteria, materials, dimensions, catalog numbers and similar data and other applicable approved shop drawings."

SECTION 01300 SUBMITTALS

Shop drawings and product data sheets 11" x 17" and smaller shall be bound together in an orderly fashion and bear the above Certification Statement on the cover sheet. The cover sheet shall fully describe the packaged data and include a listing of all items within the package. Provide to the Resident Project Representative a copy of each submittal transmittal sheet for shop drawings, product data and samples at the time of submittal of said drawings, product data and samples to the Engineer.

C. The CONTRACTOR shall utilize an 8-character submittal identification numbering system in the following manner:

1. The first five digits shall be the applicable Specification Section Number.
2. The next two digits shall be the numbers 01-99 to sequentially number each initial separate item or drawing submitted under each specific Section number.
3. The last character shall be a letter, A-Z, indicating the submission, or resubmission of the same Drawing (i.e. A=1st submission, B=2nd submission, C=3rd submission, etc.). A typical submittal number would be as follows:

03300-08-B

03300 = Specification Section for Concrete

08 = The eighth initial submittal under this specification section

B = The second submission (first resubmission) of that particular shop drawing

D. Notify the Engineer in writing, at the time of submittal, of any deviations in the submittals from the requirements of the Contract Documents.

E. The review and approval of shop drawings, samples or product data by the Engineer shall not relieve the CONTRACTOR from his/her responsibility with regard to the fulfillment of the terms of the Contract. All risks of error and omission are assumed by the CONTRACTOR and the Engineer will have no responsibility therefor.

F. No portion of the work requiring a shop drawing, sample, or product data shall be started nor shall any materials be fabricated or installed prior to the approval or qualified approval of such item. Fabrication performed, materials purchased or on-site construction accomplished which does not conform to approved shop drawings and data shall be at the CONTRACTOR's risk. The OWNER or Engineer will not be liable for any expense or delay due to corrections or remedies required to accomplish conformity.

G. Project work, materials, fabrication, and installation shall conform to approved shop drawings, applicable samples, and product data.

SECTION 01300
SUBMITTALS

1.04 SUBMISSION REQUIREMENTS

A. Submittals shall be made promptly in accordance with approved schedule, and in such sequence as to cause no delay in the Work or in the work of any other contractor. All submittals shall be accompanied by a letter of transmittal, which shall be of the form supplied by or approved by the Engineer.

B. Number of submittals required:

1. Shop Drawings, Product Data, and Performance data for equipment:
The CONTRACTOR shall submit to the Engineer for his review, four (4) sets, plus the number of sets the CONTRACTOR desires to be returned to himself.
2. Samples: CONTRACTOR shall submit three (3) sets of all required samples.

C. Submittals shall contain:

1. The date of submission and the dates of any previous submissions.
2. The Project title and number.
3. CONTRACTOR identification.
4. The names of:
 - a. CONTRACTOR
 - b. Supplier
 - c. Manufacturer
5. Identification of the product, with the specification section number, page and paragraph(s).
6. Field dimensions, clearly identified as such.
7. Relation to adjacent or critical features of the Work or materials.
8. Applicable standards, such as ASTM or Federal Specification numbers.
9. Identification of deviations from Contract Documents.
10. Identification of revisions on resubmittals.
11. An 8"x 3" blank space for CONTRACTOR and Engineer stamps.

1.05 REVIEW OF SHOP DRAWINGS, PRODUCT DATA, WORKING DRAWINGS AND SAMPLES

A. The review of shop drawings, data, and samples will be for general conformance with the design concept and Contract Documents. They shall not be construed as:

1. Permitting any departure from the Contract requirements;
2. Relieving the CONTRACTOR of responsibility for any errors, including details, dimensions, and materials; and/or
3. Approving departures from details furnished by the Engineer, except as otherwise provided herein.

SECTION 01300 SUBMITTALS

B. The CONTRACTOR remains responsible for details and accuracy, for coordinating the work with all other associated work and trades, for selecting fabrication processes, for techniques of assembly, and for performing work in a safe manner.

C. If the shop drawings, data or samples as submitted describe variations and show a departure from the Contract requirements which Engineer finds to be in the interest of the OWNER and to be so minor as not to involve a change in Contract Price or time for performance, the Engineer may return the reviewed drawings without noting an exception.

D. Submittals will be returned to the CONTRACTOR under one of the following:

1. "APPROVED" is assigned when there are no notations or comments on the submittal. When returned under this code the CONTRACTOR may release the equipment and/or material for manufacture.

2. "APPROVED AS NOTED" is assigned when a confirmation of the notations and comments IS NOT required by the CONTRACTOR. The CONTRACTOR may release the equipment or material for manufacture; however, all notations and comments must be incorporated into the final product.

3. "APPROVED AS NOTED/CONFIRM" is assigned when a confirmation of the notations and comments IS required by the CONTRACTOR. The CONTRACTOR may release the equipment or material for manufacture; however, all notations and comments must be incorporated into the final product. This confirmation shall specifically address each omission and nonconforming item that was noted. Confirmation is to be received by the Engineer within 15 calendar days of the date of the Engineer's transmittal requiring the confirmation.

4. "REVISE AND RESUBMIT" is assigned when notations and comments are extensive enough to require a resubmittal of the package. Resubmittal is to be received by the Engineer within 15 calendar days of the date of the Engineer's transmittal requiring the resubmittal.

5. "NOT APPROVED" is assigned when the submittal does not meet the intent of the Contract Documents. The CONTRACTOR must resubmit the entire package revised to bring the submittal into conformance. It may be necessary to resubmit using a different manufacturer/vendor to meet the Contract Documents.

E. Resubmittals will be handled in the same manner as first submittals. On resubmittals the CONTRACTOR shall direct specific attention, in writing on the letter of transmittal and on resubmitted shop drawings by use of revision triangles or other similar methods, to revisions other than the corrections requested by the Engineer, on previous submissions. Any such revisions which are not clearly identified shall be made at the risk of the CONTRACTOR. The CONTRACTOR shall make corrections to any work done because of this type revision that is not in accordance to the Contract Documents as may be required by the Engineer.

SECTION 01300 SUBMITTALS

F. Partial submittals may not be reviewed. The Engineer will be the only judge as to the completeness of a submittal. Submittals not complete will be returned to the CONTRACTOR, and will be considered "Not Approved" until resubmitted. The Engineer at his/her option may provide a list or mark the submittal directing the CONTRACTOR to the areas that are incomplete.

G. If the CONTRACTOR considers any correction indicated on the shop drawings to constitute a change to the Contract Documents, the CONTRACTOR shall give written notice thereof to the Engineer at least seven working days prior to release for manufacture.

H. When the shop drawings have been completed to the satisfaction of the Engineer, the CONTRACTOR shall carry out the construction in accordance therewith and shall make no further changes therein except upon written instructions from the Engineer.

I. When submittals are returned to the CONTRACTOR, the number of prints the CONTRACTOR desires returned to him will be stamped or marked as described above and will be returned to the CONTRACTOR by letter.

1.06 DISTRIBUTION

A. Distribute reproductions of approved shop drawings and copies of approved product data and samples, where required, to the job site file and elsewhere as directed by the Engineer. Number of copies shall be as directed by the Engineer but shall not exceed the number specified in Paragraph 1.04B.

1.07 GENERAL PROCEDURES FOR SUBMITTALS

A. Coordination of Submittal Times: Prepare and transmit each submittal sufficiently in advance of performing the related work or other applicable activities, or within the time specified in the individual work sections of the Specifications, so that the installation will not be delayed by processing times including disapproval and resubmittal (if required), coordination with other submittals, testing, purchasing, fabrication, delivery and similar sequenced activities. No extension of time will be authorized because of the CONTRACTOR's failure to transmit submittals sufficiently in advance of the Work.

B. The CONTRACTOR shall allow sufficient time for preliminary review, correction and resubmission, and final review of all working (shop) drawings. The CONTRACTOR should allow not more than fourteen (14) days for each preliminary review.

C. Each submittal, appropriately coded, will be returned no later than 30 calendar days following receipt of submittal by the Engineer. Drawings of items critical to job progress, when requested in writing by the CONTRACTOR, may be given priority review.

**SECTION 01300
SUBMITTALS**

PART 2: PRODUCTS (NOT USED)

PART 3: EXECUTION (NOT USED)

END OF SECTION

01300-7

SECTION 01600
DELIVERY, STORAGE, AND HANDLING

PART 1: GENERAL

1.01 SCOPE OF WORK

A. Contractor shall be required to deliver all materials and equipment to the job site and shall be responsible for unloading and inspecting the equipment shipment, as well as storage and protection of the equipment upon delivery as specified herein. Equipment manufacturers' shall also perform an inspection of the equipment and provide written certification to the Engineer that the condition of the equipment has not been detrimentally affected by the equipment storage techniques and periods as specified herein.

B. This Section specifies the general requirements for the delivery handling, storage and protection for all items required in the construction of the work.

1.02 TRANSPORTATION AND DELIVERY

A. Transport and handle items in accordance with manufacturer's instructions.

B. Schedule delivery to reduce long-term on-site storage prior to installation and/or operation. Under no circumstances shall equipment be delivered to the site more than one month prior to installation without written authorization from the Engineer.

C. Coordinate delivery with installation to ensure minimum holding time for items that are hazardous, flammable, easily damaged or sensitive to deterioration.

D. Deliver products to the site in manufacturer's original sealed containers or other packing systems, complete with instructions for handling, storing, unpacking, protecting and installing.

E. All items delivered to the site shall be unloaded and placed in a manner which will not hamper the normal construction operation or those of subcontractors and other contractors and will not interfere with the flow of necessary traffic.

F. Provide necessary equipment and personnel to unload all items delivered to the site.

G. Promptly inspect shipment to assure that products comply with requirements, quantities are correct, and items are undamaged. For items furnished by others (i.e. OWNER, other Contractors), perform inspection in the presence of the Engineer. Notify Engineer verbally, and in writing, of any problems.

1.03 STORAGE AND PROTECTION

A. Store and protect products in accordance with the manufacturer's instructions, with seals and labels intact and legible. Storage instructions shall be studied and understood by the CONTRACTOR and reviewed with the manufacturer and Engineer.

SECTION 01600
DELIVERY, STORAGE, AND HANDLING

Manufacturer's instructions shall be carefully followed and a written record of this kept by the CONTRACTOR. Arrange storage to permit access for inspection.

B. Store loose granular materials on solid flat surfaces in a well-drained area. Prevent mixing with foreign matter.

C. All structural and miscellaneous steel shall be stored off the ground or otherwise to prevent accumulations of dirt or grease, and in a position to prevent accumulations of standing water and to minimize rusting.

D. All mechanical and electrical equipment and instruments subject to corrosive damage by the atmosphere if stored outdoors (even though covered by canvas) shall be stored in a weather-tight building to prevent injury. Due to available space at the existing site, CONTRACTOR may have to provide a temporary structure (with approval from the City of Austin) on the site or storage offsite, but it must be satisfactory to the Engineer and/or OWNER. Any storage building used shall be placed within the Limits of Construction shown on the plans, and provided with adequate ventilation to prevent condensation. Maintain temperature and humidity within range required by manufacturer.

1. All equipment shall be stored fully lubricated with oil, grease and other lubricants unless otherwise instructed by the manufacturer.
2. Moving parts shall be rotated a minimum of once weekly to insure proper lubrication and to avoid metal-to-metal "welding". Upon installation of the equipment, the CONTRACTOR shall start the equipment, at least half load, once weekly for an adequate period of time to ensure that the equipment does not deteriorate from lack of use.
3. Lubricants shall be changed upon completion of installation and as frequently as required thereafter during the period between installation and acceptance. New lubricants shall be put into the equipment at the time of acceptance.
4. Prior to acceptance of the equipment, the CONTRACTOR shall have the manufacturer inspect the equipment and certify that its condition has not been detrimentally affected by the storage period. Such certifications by the manufacturer shall be deemed to mean that the equipment is judged by the manufacturer to be in a condition equal to that of equipment that has been shipped, installed, tested and accepted in a minimum time period. As such, the manufacturer will guaranty the equipment equally in both instances. If such a certification is not given, the equipment shall be judged to be defective. It shall be removed and replaced at the CONTRACTOR's expense.

E. If a temporary onsite building is not or cannot be used for storage, CONTRACTOR shall store materials and equipment offsite and shall allow Engineer and

01600-2

SECTION 01600
DELIVERY, STORAGE, AND HANDLING

OWNER access for inspections.

PART 2: PRODUCTS (NOT USED)

PART 3: EXECUTION (NOT USED)

END OF SECTION

01600-3

**SECTION 01730
OPERATING AND MAINTENANCE DATA**

PART 1: GENERAL

1.01 REQUIREMENTS INCLUDED

- A. The CONTRACTOR shall compile product data and related information appropriate for OWNER's maintenance and operation of all equipment furnished as specified in this Document. The CONTRACTOR shall prepare operating and maintenance data as specified herein and as referenced in other pertinent sections of specifications.
- B. The CONTRACTOR shall instruct OWNER's personnel in maintenance of products and in operation of equipment and Systems as described in these specifications.

1.02 RELATED REQUIREMENTS

- A. Section 01300: Submittals.

1.03 QUALITY ASSURANCE

- A. Preparation of data shall be done by personnel:
 - 1. Trained and experienced in maintenance and operation of described products.
 - 2. Familiar with requirements of this Section.
 - 3. Skilled as technical writer to the extent required to communicate essential data.
 - 4. Skilled as draftsman/technician competent to prepare required drawings.

1.04 FORM OF SUBMITTALS

- A. Prepare data in form of an instructional manual for use by OWNER's personnel.
- B. Format
 - 1. Size: 8½ inches x 11 inches and placed in 3 ring binders.
 - 2. Paper:
 - a. 20 pound minimum, white, for typed pages.
 - b. Holes for placement in 3 ring binders.
 - 3. Text: Manufacturer's printed data, or neatly typewritten.
 - 4. Drawings:
 - a. Provide reinforced punched binder tab, bind in with text.
 - b. Reduce larger drawings and fold to size of text pages but not larger than 14" x 17"
 - 5. Provide fly-leaf for each separate product, or each piece of operating equipment
 - a. Provide typed description of product, and major component parts of equipment.
 - b. Provide indexed tabs.

SECTION 01730
OPERATING AND MAINTENANCE DATA

6. Cover: Identify each volume with typed or printed title "OPERATING AND MAINTENANCE INSTRUCTIONS". List:
 - a. Title of Project.
 - b. Identity of separate structure as applicable.
 - c. Identity of general subject matter covered in the manual.
7. Side of binder shall identify contents of manual.

B. Binders:

1. Commercial quality three-ring binders with durable and cleanable plastic sleeve covers. Sleeve covers shall be on front and side of binders.
2. When multiple binders are used, correlate the data into related consistent groupings and volume numbers (Volume _ of _).

1.05 CONTENT OF MANUAL

A. Neatly typewritten table of contents for each volume, arranged in systematic order.

1. Contractor, name of responsible principal, address and telephone number.
2. A list of each product required to be included, indexed to content of the volume.
3. List, with each product, name, address and telephone number of:
 - a. Subcontractor or installer.
 - b. A list of each product required to be included, indexed to content of the volume.
 - c. Identify area of responsibility of each.
 - d. Local source of supply for parts and replacement
4. Identify each product by product name and other identifying symbols as set forth in Contract Documents.

B. Product Data

1. Include only those sheets which are pertinent to the specific product.
2. Annotate each sheet to:
 - a. Clearly identify specific product or part installed.
 - b. Clearly identify data applicable to installation.
 - c. Delete references to inapplicable information.

C. Drawings

1. Supplement product data with drawings as necessary to clearly illustrate:
 - a. Relations of component parts of equipment and systems.
 - b. Control and flow diagrams.
2. Coordinate drawings with information in Project Record Documents to assure correct illustration of completed installation.
3. Do not use Project Record Drawings as maintenance drawings.

SECTION 01730
OPERATING AND MAINTENANCE DATA

- D. Written text, as required to supplement product data for the particular installation:
 - 1. Organize in consistent format under separate headings for different procedures.
 - 2. Provide logical sequence of instructions of each procedure.
- E. Copy of each warranty, bond and service contract issued.
 - 1. Provide information sheet for Owner's personnel giving:
 - a. Proper procedures in event of failure.
 - b. Instances which might affect validity of warranties or bonds.

1.06 MANUAL FOR MATERIALS AND FINISHES

- A. Submit five copies of complete manual in final form.
- B. Content - For products, applied materials and finishes:
 - 1. Manufacturer's data, giving full information on products.
 - a. Catalog number, size, composition.
 - b. Information required for reordering special-manufactured products.
 - 2. Instructions for care and maintenance.
 - a. Manufacturer's recommendation for types of cleaning agents and methods.
 - b. Cautions against cleaning agents and methods which are detrimental to product.
 - c. Recommended schedule for cleaning and maintenance.
- C. Content, for moisture-protection and weather-exposure products:
 - 1. Manufacturer's data, giving full information on products.
 - a. Applicable standards.
 - b. Chemical composition.
 - c. Details of installation.
 - 2. Instructions for inspection, maintenance and repair.
- D. Additional requirements for maintenance data: Respective sections of Specifications.

1.07 MANUAL FOR EQUIPMENT AND SYSTEMS

- A. Submit three copies of complete manual in final form.
- B. Content, for each unit of equipment and system, as appropriate:
 - 1. Description of unit and component parts.
 - a. Function, normal operating characteristics, and limiting conditions.
 - b. Performance curves, engineering data and tests.
 - c. Complete nomenclature and commercial number of replaceable parts.

SECTION 01730
OPERATING AND MAINTENANCE DATA

2. Operating procedures:
 - a. Start-up, break-in, routine and normal operating instructions.
 - b. Regulation, control, stopping, shut-down and emergency instructions.
 - c. Summer and winter operating instructions.
 - d. Special operating instructions.
 3. Maintenance procedures: A summary table shall be provided listing all equipment and maintenance requirements and frequency.
 - a. Routine operations.
 - b. Guide to "trouble-shooting".
 - c. Disassembly, repair and reassembly.
 - d. Alignment, adjusting and checking.
 4. Servicing and lubrication schedule: A summary table shall be provided listing all equipment and lubrication requirements and frequency.
 - a. List of lubricants with recommended manufacturer and model/product numbers provided
 5. Manufacturer's printed operating and maintenance instructions.
 6. Description of sequence of operation by control manufacturer.
 7. Original manufacturer's parts list, illustrations, assembly drawings and diagrams required for maintenance.
 - a. Predicted life of parts subject to wear.
 - b. Items recommended to be stocked as spare parts.
 8. As-installed control diagrams by controls manufacturer.
 9. Each contractor's coordination drawings.
 - a. As-installed color coded piping diagrams.
 10. Charts of valve tag numbers, with location and function of each valve.
 11. List of original manufacturer's spare parts, manufacturer's current prices, and recommended quantities to be maintained in storage.
 12. Other data as required under pertinent sections of specifications.
- C. Content, for each electric and electronic system, as appropriate:
1. Description of system and component parts.
 - a. Function, normal operating characteristics, and limiting conditions.
 - b. Performance curves, engineering data and tests.
 - c. Complete nomenclature and commercial number of replaceable parts.
 2. Circuit directories of panelboards.
 - a. Electrical service.
 - b. Controls.
 - c. Communications.
 3. As-installed color coded wiring diagrams.
 4. Operating procedures:
 - a. Routine and normal operating instructions.
 - b. Sequences required.
 - c. Special operating instructions.
 5. Maintenance procedures:
 - a. Routine operations.
 - b. Guide to "trouble-shooting".

01730-4

**SECTION 01730
OPERATING AND MAINTENANCE DATA**

- c. Disassembly, repair and reassembly.
 - d. Adjustment and checking.
 - 6. Manufacturer's printed operating and maintenance instructions.
 - 7. List of original manufacturer's spare parts, manufacturer's current prices, and recommended quantities to be maintained in storage.
 - 8. Other data as required under pertinent sections of specifications.
- D. Prepare and include additional data when the need for such data becomes apparent during instruction of OWNER's personnel.
- E. Additional requirements for operating and maintenance data: Respective sections of Specifications.

1.08 SUBMITTAL SCHEDULE

- A. Submit two copies of preliminary draft of proposed formats and outlines of contents of Operation and Maintenance Manuals within 30 days after Notice to Proceed is given to the General Contractor responsible for performing all construction improvements.
- 1. The Engineer will review the preliminary draft and return one copy with comments.
- B. Submit three copies of completed data in final form no later than 30 days following the Engineer's review of the last shop drawing and/or other final submittal specified under Section 01300.
- 1. One copy will be returned with comments to be incorporated into final copies.
- C. Submit three (3) copies of approved manual in final form directly to the offices of the Engineer (Burgess & Niple, Inc.) within 30 calendar days of product shipment to the Project site and preferably within 30 days after the reviewed copy is received.
- D. Submit four (4) copies of addendum to the operation and maintenance manuals as applicable and certificates within 30 days after final inspection and plant start-up test.

1.09 INSTRUCTION OF OWNER'S PERSONNEL

- A. Prior to final inspection or acceptance, CONTRACTOR (and GSTM Representative) shall fully instruct OWNER's designated operating and maintenance personnel in operation, adjustment and maintenance of products, equipment and systems.
- B. Operating and maintenance manual shall constitute the basis of instruction.

SECTION 01730
OPERATING AND MAINTENANCE DATA

1. Review contents of manual with personnel in full detail to explain all aspects of operations and maintenance.

PART 2: PRODUCTS (NOT USED)

PART 3: EXECUTION (NOT USED)

**SECTION 01730
OPERATING AND MAINTENANCE DATA**

EQUIPMENT MANUFACTURER'S CERTIFICATE OF INSTALLATION TESTING
AND INSTRUCTION

Owner: _____

Project: _____

Contract No.: _____

Burgess & Niple Job No.: _____

EQUIPMENT SPECIFICATION SECTION _____

EQUIPMENT
DESCRIPTION _____

I, _____, Authorized representative of
(Print Name)

(Print Manufacturer's Name)

hereby CERTIFY that _____
(Print equipment name and model with serial No.)

installed for the subject Project [has] [have] been installed in a satisfactory manner, [has]
[have] been satisfactorily tested, [is] [are] ready for operation, and that Owner assigned
operating personnel have been suitably instructed in the operation, lubrication, and care
of the unit[s] on Date: _____ Time: _____.

CERTIFIED BY: _____ DATE: _____
(Signature of Manufacturer's Representative)

OWNER'S ACKNOWLEDGMENT OF MANUFACTURER'S INSTRUCTION

[I] [We] the undersigned, authorized representatives of the _____
and/or Plant Operating Personnel have received classroom and hands on instruction on
the operation, lubrication, and maintenance of the subject equipment and [am] [are]
prepared to assume normal operational responsibility for the equipment:

DATE: _____

DATE: _____

DATE: _____

01730-7

SECTION 02000 SITE WORK

1.0 GENERAL

Work in this Section will include clearing and excavating for the proposed yard piping and installation of erosion control measures. All site work under this section shall be included in the price for this Contract.

2.0 GRADING

The CONTRACTOR shall perform site grading along the waterline route and adjacent roads and driveways within the Right-of-Way as required, and in the area adjacent to streets and drainage facilities as may be necessary to perform the work. Grading shall be performed in a neat and satisfactory condition which facilitates positive drainage, as approved by the Engineer. No separate payment for grading shall be made.

3.0 EROSION CONTROL / TREE PROTECTION MEASURES

3.1 General

This item shall govern the furnishing, placing, maintaining, and removal of all erosion control and tree protection measures, site work, restoration work, grading, shaping, and seeding for all disturbed areas and in accordance with the Plans.

All temporary erosion control measures including silt fence and rock berms shall be erected at the locations specified on the Plans, maintained until final acceptance, and removed by the CONTRACTOR after final acceptance of the Project. However, erosion control shall be modified in the field as needed such that runoff from construction activities flows through the appropriate devices. Any such modification(s) may be initiated by CONTRACTOR; or directed by OWNER, Engineer, or OWNER's representative; and must be approved by Engineer. Maintenance of the temporary erosion control measures shall be the CONTRACTOR'S responsibility until final acceptance, and shall be included in the contract price.

3.2 Rock Berms

Rock berms completed as shown in the standard details will be measured per linear foot and shall include the furnishing, installation, maintenance, removal and proper disposal upon completion of the Project.

3.3 Silt Fence

Silt fence completed as shown in the standard details will be measured per linear foot and shall include the furnishing, installation, maintenance, removal and proper disposal upon completion of the Project.

SECTION 02000 SITE WORK

3.4 Mulch Check Dam

Mulch check dam completed as shown in the standard details will be measured per linear foot and shall include the furnishing, installation, maintenance, removal and proper disposal upon completion of the Project.

3.5 Tree Protection

Tree protection fencing completed as shown in the standard details will be measured per linear foot and shall include the furnishing, installation, maintenance, removal and proper disposal upon completion of the Project.

3.6 Restoration and Revegetation

The restoration of disturbed areas shall be done in accordance with City of Austin or TCEQ specifications and shall include spreading of top soil, shaping, hydromulching, or seeding in accordance with the specifications. Restoration and revegetation will be measured per square yard. Areas outside of the limits of construction which are disturbed by construction shall be revegetated at the CONTRACTOR'S sole expense. Completed work under this item shall include re-establishment of the vegetation per the specifications including all water, fertilizer, seed, soil hydromulch, sod as necessary.

3.7 Measurement and Payment

When called for in the Contract, erosion control and tree protection measures shall be paid for at the lump sum contract price bid for such measures, complete in place, in accordance with the Plans. The price shall include all excavation, materials, shaping, hauling, maintenance, removal at completion of Project, disposal of surplus materials, hydromulching of seeding and clean up. Existing temporary erosion control measures will be repaired or replaced at the CONTRACTOR'S sole expense.

4.0 CLEARING AND GRUBBING

CONTRACTOR shall clear and grub all vegetation, with the exception of trees selected by the OWNER. Upon completion of the clearing, the CONTRACTOR shall fill ruts and holes made during clearing and revegetate the disturbed areas.

5.0 EXCAVATION

5.1 Scope

Excavation shall include the removal of any trees, stumps, brush, debris, or other obstacles that may obstruct the construction of the Work; and the excavation and removal of all earth, rock, or other materials to the extent necessary to construct all the work shown on the plans to the lines and grades as indicated thereon. Excavation shall be of ample width to permit proper construction and removal of temporary structures such as forms. As may be required, excavations shall be back sloped to be safe and so that the

SECTION 02000 SITE WORK

ground alongside excavations will not slide or settle. All work shall be in accordance with the recommendations presented in the Geotechnical Engineering Study.

5.2 Shaping and Trimming

Excavations shall be of such dimensions as to permit the proper construction of the Work in the manner, shape, and size shown on the plans. Wherever the nature of the soil is such as to permit the making of a proper subgrade, the bottom of the excavation shall have the shape and dimensions shown on the plans or as specified. In such case, machine excavation shall be so controlled as to not cut below grade and final trim shall be by hand labor. The subgrade so made shall be free from all loose material before materials are placed.

5.3 Subgrade and Additional Excavation

It is the intent of these specifications that the subgrade for all structures be excavated or prepared to provide a firm and unyielding foundation, brought to true line and grade, upon which the work may be constructed.

In case the materials encountered at subgrade elevation are not stable or are otherwise deemed unsatisfactory by the OWNER, the excavation shall be carried to such additional depth as the OWNER may direct. The CONTRACTOR shall, at his own expense, refill and compact such excavated space to subgrade level with pit run gravel, crushed rock/road base, or materials for embankment described herein, as the OWNER may direct.

5.4 Unauthorized Excavation

Wherever, through neglect of the CONTRACTOR, the excavation is carried beyond or below the lines and grades as given by the Engineer or as shown on the plans, except as specified above, all such excavated space shall be refilled and compacted with such material and in such a manner, as may be directed by the Engineer, so as to insure the stability of the affected structure. Beneath all structures, space excavated without authority shall be refilled by the CONTRACTOR, at their expense, with at least 2,000-psi concrete and as directed by the OWNER.

5.5 Disposal of Material

All cleared vegetation and earth material and surplus excavated material, in excess of that required for backfilling and site grading as required by the plans, shall become the property of the CONTRACTOR and be disposed of offsite as directed by the OWNER and the site shall be leveled and left in an aesthetically pleasing condition acceptable to the OWNER.

SECTION 02000 SITE WORK

5.6 Removal of Water

The CONTRACTOR shall, during the excavation period and as long thereafter as the condition of the work may require, provide and maintain, in good operating condition, pumping equipment fully adequate in capacity to promptly remove all water entering any excavation or other parts of the work.

All the excavations shall be kept dry and water pumped or drained from work shall be disposed of in such a manner as to prevent damage to adjacent property or to other work under construction. All damage, of whatever nature, caused by dewatering the work shall be promptly repaired or remedied by the CONTRACTOR at his own expense. This shall include the cleaning and flushing of existing drainage ditches and pipes where such are used.

6.0 FILLING

Where structural filling is required, undesirable material as determined by the OWNER shall be removed from the building area. Grade adjustments within building limits shall be accomplished with requirements of recommendations presented in the Geotechnical Report or with OWNER's approval, crushed limestone base material meeting the TxDOT 1993 Standard Specifications Item 247, Type A, Grade 4. CONTRACTOR may submit an alternate low-plasticity granular fill material for review and approval by OWNER. All structural fill material shall be placed on prepared surfaces in lifts not to exceed 8-inches loose measure, with compacted thickness not to exceed 6-inches. Select fill shall be compacted to at least 95 percent of the Standard Proctor (ASTM D698) maximum dry density at a moisture content ranging between -2 and +3 percent of optimum moisture content.

7.0 BACKFILLING

Excavations for structures shall be backfilled to original ground level, or to such other grades as otherwise noted. Measures shall be taken to prevent excessive wetting or drying of the subgrade and/or backfill. The time elapsing before backfilling is begun shall be subject to the Engineer's approval. All backfilling shall be carried along in an orderly manner and as expeditiously as is consistent with good scheduling.

Before backfilling around structures, all lumber, rubbish, braces, and refuse shall be removed from the excavation and disposed of. Material used for backfill shall, unless otherwise specified, be good sound earth, free from waste, rubbish, objectionable organic matter, rocks greater than 3-inches, waste concrete, or other unstable or unsuitable material.

It is essential that the backfill around structures be placed, compacted, and built up to minimize future settlement. To this end, care shall be exercised in selecting backfill material free from large clay lumps, especially in cramped areas directly adjoining the walls of structures.

SECTION 02000 SITE WORK

The backfill around structures shall be brought up in horizontal layers of uniform thickness. Each such layer shall not be more than eight inches (8") in depth when measured loose. As may be necessary to attain maximum compaction, the backfill material shall be moistened by sprinkling lightly with water. After placing, each layer of backfill shall be thoroughly and uniformly compacted by means of mechanical tampers or small impact-type rollers. The compacting equipment and the manner of its use shall be subject to the approval of the Engineer.

Backfill adjacent to structures shall be compacted in lifts as specified to a minimum density of 95% as determined by Standard Proctor (ASTM D698) at a moisture content between -2 and +3 percent of optimum moisture content.

8.0 TEMPORARY AND PERMANENT ACCESS DRIVEWAYS

8.1 Subgrade Preparation

The surface shall be cleared, graded, and compacted as necessary to receive the crushed stone fill. All subgrades under crushed stone shall be scarified and compacted to not less than 95% of the Standard Proctor (ASTM D698) maximum dry density at a moisture content between -1 and +3 percent of optimum moisture.

8.2 Crushed Stone Fill

Crushed stone fill, unless otherwise shown on plans, shall be placed to a minimum depth of 6-inches, loose measure, and compacted to not less than 95% of the Modified Proctor (ASTM D1557) maximum dry density at a moisture content between -2 and +3 percent of optimum moisture. Crushed stone shall be crusher run, all material passing a 2 inch screen and 15% to 40% passing 40 mesh sieve with maximum liquid limit of 45 and maximum plasticity index of 15.

Crushed stone driveways shall be graded so that the surface of the driveway will drain freely; furthermore, the elevation of the completed gravel driveway shall not be of a sufficient height as to cause drainage problems in the area. CONTRACTOR shall maintain the road to the OWNER'S satisfaction throughout the duration of the project.

SECTION 09900
PAINTING AND PROTECTIVE COATINGS

1.0 SCOPE OF WORK

The work to be performed under this Section includes furnishing all materials, equipment, tools, and labor necessary for the application, inspection, and testing of wastewater collection system improvements. All painting shall be done strictly in accordance with the manufacturer's instructions and shall be performed in a manner satisfactory to the OWNER.

The CONTRACTOR must provide good housekeeping, cleanup, and waste disposal under this Contract. Materials used, waste containment, and disposal practices must comply with all applicable environmental regulations.

2.0 PROTECTIVE COATING STANDARDS AND SPECIFICATIONS

The materials, application, inspection, and testing of the piping, equipment, and miscellaneous metals shall conform to current, 30 Texas Administrative Code (TAC), Chapter 290, "Water Hygiene," the Steel Structures Painting Council (SSPC) SSPC-PA1, National Association of Corrosion Engineers (NACE), and the paint manufacturer's specifications or recommendation, as modified below, and approved by manufacturer and the OWNER.

Other Referenced Standards are as follows:

- 1) American National Standards Institute (ANSI):
 - a) A224.1, Test Procedures and Acceptance Criteria for Prime Painted Steel Surfaces for Steel Doors and Frames
 - b) Z53.1, Safety Color Code for Marking Physical Hazards
- 2) American Society for Testing and Material (ASTM):
 - a) E84, Standard Test Method for Surface Burning Characteristic of Building Materials
- 3) National Bureau of Standards (NBS)
 - a) Certified Coating Thickness Calibration Standards
- 4) National Fire Protection Association (NFPA):
 - a) 101, Life Safety Code
- 5) Steel Structures Painting Council (SSPC):
 - a) SP-1, Solvent Cleaning
 - b) SP-2, Hand Tool Cleaning
 - c) SP-3, Power Tool Cleaning
 - d) SP-6, Commercial Blast Cleaning
 - e) SP-7, Brush-off Blast Cleaning
 - f) SP-10, Near-White Blast Cleaning
 - g) PA-2, Measurement of Dry Paint Thickness with Magnetic Gages

No interior coatings of potable water tanks, piping valves or appurtenances will be allowed which are not approved for use (as a contact surface with potable water) by the United States Public Health Service (USPHS), the United States Environmental Protection Agency (EPA), National Sanitation Foundation (NSF),

SECTION 09900
PAINTING AND PROTECTIVE COATINGS

or the United States Food and Drug Administration (FDA). All newly installed interior coatings must conform to ANSI/NSF Standard 61.

The paints and paint products of Tnemec, as specified herein, are used to establish a standard of quality and to establish the generic type of the paint to be used. Equivalent generic type paints as manufactured by Sherwin Williams Carboline, Valspar, MAB Paints & Coatings, or an OWNER approved equal, may be acceptable. However, work shall be governed by these specifications, approved shop submittals, and paint manufacturer's recommendations. There shall be no deviation from these specifications and approved shop submittals without written order or approval from the ENGINEER.

3.0 QUALIFICATIONS

The CONTRACTOR shall furnish workers who perform quality work and who are experienced and knowledgeable in the surface preparation and application of high-performance industrial coatings. CONTRACTOR shall provide written statement attesting that the Applicator has been instructed on proper preparation, mixing and application procedures for coatings specified.

Contractor/Applicator shall have a minimum of 3 years experience in application of similar products. Provide references for minimum of three different projects completed in last 3 years. Include name and address of projects, value of painting project and personal reference.

4.0 GENERAL REQUIREMENTS

The object of these specifications is to provide the material and workmanship necessary to produce a first class job. Painting shall be done at such times as approved by the Engineer. All painting shall be done strictly in accordance with the paint manufacturer's instructions and shall be performed in a manner satisfactory to the Engineer.

The type of coating material to be used exterior and interior and the number of coats to be applied are listed in the 'Painting Schedule' in this specification.

The term 'paint', as used herein, includes enamels, paints, sealers, fillers, emulsions, and other coatings, whether used as prime, intermediate, or finish coats.

The proposed work site is located approximately 200 feet from the nearest structure. Care must be taken to avoid any over spraying of the material to be painted. Any adversely affected property included or not included in this project must be corrected by Contractor at its sole expense. CONTRACTOR shall eliminate any nuisance problems during field painting of any item through appropriate means. The CONTRACTOR shall be responsible for all claims of damage during the progress of the painting and is especially forewarned of this

SECTION 09900
PAINTING AND PROTECTIVE COATINGS

responsibility so that he may exert all possible precaution and care for protection of surrounding property.

All coating material shall be brought to the job site in the original sealed and labeled containers bearing the manufacturer's brand name, product number, and batch number. All coating materials at the job site shall be available for inspection by the OWNER, or the coating manufacturer's representative. The coating material shall be stored at the job site by the CONTRACTOR under cover and within a temperature range of 40 to 110 degrees F, or as recommended by the manufacturer.

The CONTRACTOR must provide good housekeeping, cleanup, and waste disposal under this Contract. Storage areas shall be kept clean and free of fire hazard. Materials used, waste containment, and disposal practices must comply with all applicable environmental regulations. All cloths and waste, which might constitute a fire hazard, shall be placed in metal containers or disposed of in accordance with the applicable regulations at the end of each work day.

All coating application procedures shall conform to the standards of craftsmanship discussed in the Steel Structures Painting Council's Painting Manual, Volume 1, Good Painting Practice. These techniques include, but are not limited to, multiple passes of the spray gun, with each pass overlapped 50%, and cross "hatching" successive coats of paint.

Each successive coat shall differ in color from the preceding coat to allow easy determination of coverage. The color of each final coat for items other than piping shall be as selected by the OWNER. Colors of each coat shall be chosen to obtain complete coverage even color.

All work shall be cut in neatly, and finish coats shall be uniform in color and texture without streaks, laps, heavy build up, runs, sags, or missed areas. Spray guns must be held perpendicular to the surface being painted, and handled and adjusted in such a manner that dry overspray is kept to a minimum. All coatings shall be completely free of defects.

All coating work shall be done on clean, well-prepared surfaces so that a smooth finished paint surface will exist upon completion of the work done, and at such times as approved by the Engineer. Relative humidity, air and surface temperatures shall be within limits prescribed by the manufacturer of the coating being applied. Coating shall not be applied to wet or damp surfaces, and shall not be applied in rain, snow, fog or mist, unless the work is well protected from such conditions, and then only with the specific approval of the coating manufacturer and the OWNER. No coating shall be applied when dew or moisture condensation is anticipated. If such conditions exist, application shall be delayed until mid-morning to assure dry surfaces. Also, application must be completed well in advance of the time of day when condensation will occur, in order to allow a reasonable drying time prior to the formation of moisture. The work areas shall

SECTION 09900
PAINTING AND PROTECTIVE COATINGS

be reasonably free of airborne dust at the time of application and while the coating is curing.

The CONTRACTOR shall observe all the applicable parts of the Occupational Safety and Health Act of 1970 and its subsequent amendments and revisions; and/or other Federal, State, and local agencies while coating the tank. Particular care should be taken by the CONTRACTOR to ensure proper ventilation and rigging or scaffolding procedures.

Thinning of the paint shall be done only if necessary for workability of the coating material. When thinning is recommended or required by the manufacturer, only the appropriate manufacturer's thinners shall be used and only in the amounts specified.

Sufficient blowers and fans shall be installed to provide adequate ventilation in the tanks during painting of the tank interiors to effectively remove solvents and harmful vapors from the interior of tanks. Adequate ventilation shall also be provided for effective removal of solvents for proper drying of paints on interior tank surfaces. A minimum of seven days following the application of the final coat on the interior surfaces shall be allowed before the tanks are filled with water for testing, unless otherwise approved by the paint manufacturer and ENGINEER.

Minimum between-coat drying times and final drying, as stated in the printed instructions of the coating manufacturer, shall be strictly observed. Each paint system shall be from a single manufacturer.

Care shall be taken to protect nameplates and identification plates on machinery and equipment to be painted. Name plates and identification plates shall be masked with masking tape or coated with Vaseline before painting the adjoining surfaces. After painting is completed, the nameplates shall be carefully cleaned. All masking shall be removed and nameplates thoroughly cleaned prior to final acceptance by the OWNER.

All cloths and waste which might constitute a fire hazard shall be placed in metal containers or destroyed at the end of each workday. Upon completion of the work, all staging, scaffolding, and containers shall be removed from the sites. Paint spots, oil, or stains upon adjacent surfaces shall be removed and the entire job left clean and acceptable to the OWNER.

Coating application by brush or airless spray is preferred; however, conventional spray is acceptable if acceptable by paint manufacturer. If conventional spray is used, moisture and oil traps shall be placed in line from air supply to the pressure pot and spray gun. This trap shall be opened slightly to provide a continuous bleed. Regulators and gauges shall be provided for air to both the pressure pot and spray gun.

SECTION 09900
PAINTING AND PROTECTIVE COATINGS

All piping both exposed and buried (or located out of view) shall be color-coded. All non-metallic underground plant piping shall be installed with tracer tape. In addition, non-potable waterlines if used shall be painted white and shall be stenciled with the words "NON-POTABLE WATER" or "UNSAFE WATER" in red. The following coding, shown in TCEQ rules as recommended by the Water Pollution Control Federation, shall be used:

| | |
|---------------------------------|-----------------------------------|
| Sludge | Brown |
| Natural Gas | Red |
| Potable Water | Light Blue |
| Chlorine (Gas, Liquid, or Vent) | Yellow |
| Sulfur Dioxide | Lime Green with Yellow Bands |
| Sewage | Grey |
| Compressed Air | Light Green |
| Heated Water | Blue with 6" Red Bands 30" Apart |
| Power Conduit | Per National Electric Code |
| Reclaimed Water | Purple |
| Instrument Air | Light Green with Dark Green Bands |
| Liquid Alum | Yellow with Orange Bands |
| Alum (solution) | Yellow with Green Bands |
| Ferric Chloride | Brown with Red Bands |
| Polymers | White with Green Bands |
| Ozone | Stainless Steel with White Bands |
| Raw Water | Tan |
| Effluent After Clarification | Dark Green |
| Micro C | Per Chemical Supplier |

Paint manufacturer or Engineer will be consulted concerning points not covered herein.

5.0 SURFACE PREPARATION

Following construction, improvements shall be coated in strict accordance with these specifications. No temporary coatings, wax grease coatings, or coating materials containing lead will be allowed.

At the option of the CONTRACTOR, surface preparation and prime coat application for the raw water system may be performed in the fabricator's shop or in the field after erection/installation of the tanks, as described below.

The latest version of the following surface preparation specifications of Steel Structures Painting Council shall form a part of this specification:

Surface Preparation Prior to Abrasive Blast Cleaning: Weld flux and spatter shall be removed by power tool cleaning. Sharp projections shall be ground to a smooth contour. All welds shall be ground to a smooth contour as per NACE Standard RP0178 and herein.

SECTION 09900
PAINTING AND PROTECTIVE COATINGS

All surfaces shall be cleaned of all rust, mil scale, dust, as well as other interference materials. The removal of these items, exterior and interior, shall be accomplished by sand blasting in accordance with SSPC Surface Preparation Specifications identified below. Before blast cleaning, visible deposits of oil or grease shall be removed by any of the methods specified in SSPC-SP1. Before blast cleaning, surface imperfections such as sharp fins, sharp edges, weld spatter, or burning slag shall be removed from the surfaces to be cleaned. In the field, following erection and welding all sharp edges, including those from scaffold lugs, as well as those on the weld seams, shall be ground smooth. All weld areas shall be sand blasted in accordance with SSPC Surface Preparation Specification No. SP10. Schedule all blast cleaning and painting so that dust and other contaminants from the cleaning process will not fall on wet, newly painted surfaces.

Dust and loose residues shall be removed from prepared surfaces by brushing, blowing off with clean, dry air, or vacuum cleaning.

Any visible rust that forms on the surface of the steel after blast cleaning shall be removed by re-blasting the rusted areas to meet the requirements of this specification before painting.

Solvent Cleaning (SSPC-SP1): Removal of oil, grease, soil and other contaminants by use of solvents, emulsions, cleaning compounds, steam cleaning or similar materials and methods that involve a solvent or cleaning action.

Hand Tool Cleaning (SSPC-SP2): Removal of loose rust, loose mil scale and other detrimental foreign matter to degree specified by hand chipping, scraping, sanding, and wire brushing.

Power Tool Cleaning (SSPC-SP3): Removal of loose rust, loose mil scale and other detrimental foreign matter to degree specified by hand chipping, scraping, sanding, and wire brushing.

White Metal Blast Cleaning (SSPC-SP5): Blast cleaning to a gray-white uniform metallic color until each element of surface area is free of all visible residues.

Commercial Blast Cleaning (SSPC-SP6): SSPC-SP6 shall be defined as a surface from which all oil, grease, dirt, rust, scale and foreign matter have been completely removed from the surface and all rust, mill scale, and old paint have been completely removed except for slight shadows, streaks, or discolorations caused by rust stains, mill scale oxides, or slight residues of paint or coating that may remain; if the surface is pitted, slight residues of rust or paint may be found in the bottom of pits; at least two-thirds of each square inch of surface area shall be free of all visible residues and the remainder shall be limited to the light discoloration, slight staining or light residues mentioned before. All sharp edges, including those from scaffold lugs, as well as those on weld seams, shall be

SECTION 09900 PAINTING AND PROTECTIVE COATINGS

ground smooth. All weld areas and all areas on which the shop paint has been damaged shall be reblasted as previously outlined.

Brush-Off Blast Cleaning (SSPC-SP7): Blast cleaning to remove loose rust, loose mil scale and other detrimental foreign matter degree specified.

Near White Blast Cleaning (SSPC-SP10): SSPC-SP10 shall be defined as a near-white metal surface from which all oil, grease, dirt, mill scale, rust, corrosion products, oxides, paint and other foreign matter have been completely removed from the surface except for very light shadows, very slight streaks, or slight discolorations caused by rust stain, mill scale oxides, or slight, tight residues of paint or coating that may remain. At least 95 percent of each square inch of surface area shall be free of all visible residues, and the remainder shall be limited to the light discoloration mentioned above.

Abrasive material shall be hard, angular, oil free, washed, clean, and dry silica sand selected to provide the surface profile 1.5 to 2.5 mils, 37.5 to 65.0 microns (ASTM D 4417-91 Methods A and C), or as recommended by the coating manufacturer. Abrasive material shall not be reused. Other abrasive material, such as Black Beauty, may be used with ENGINEER's written approval. The compressed air used for blasting shall be free of water and oil. Adequate traps and separators shall be provided at the blast pot. All abrasives and dust from blasting operations shall be removed from surfaces before paint application is begun.

5.1 Shop Surface Preparation

Prior to shop priming, all mill scale and rust shall be removed from the steel by blasting. Use SSPC-SP10 for inside surfaces and SSPC-SP6 for outside surfaces. The surface shall then immediately receive one coat of primer paint to prevent flash rusting and leaving unpainted margins along all edges that are to be field welded. All surfaces shall be coated the same day that the cleaning operation is carried out. Under no circumstances shall the surface be left uncoated for more than 24-hours. If this time frame has been exceeded, then the steel shall be reblasted.

After the structure has been erected and welded, all welded seams, adjacent unprimed areas and abraded areas shall be spot blasted in the field to the same requirements as in the shop. Newly blasted surfaces shall then receive a field prime coat using the same brand and type of primer paint that was applied in the fabricator's shop. Shop primed areas shall be brush-off blasted to obtain the proper surface profile and recoated with primer at the same time that field primer is applied to newly blasted surfaces. All work, both surface preparation and priming, shall be properly feathered to a smooth and uniform surface.

5.2 Field Surface Preparation

09900-7

SECTION 09900
PAINTING AND PROTECTIVE COATINGS

After erection and prior to field priming, all surfaces shall be cleaned to remove surface contamination. All abraded areas and plate edges shall be thoroughly cleaned by sandblasting to assure removal of weld scale, slag, flux, sharp edges, and rust deposits. All work shall be properly feathered to a smooth and uniform surface. Use SSPC-SP10 for submerged surfaces (interior submerged surfaces or surfaces subject to splashing or intermittent wetting) and SSPC-SP6 for exterior surfaces not subjected to submergence, splashing, or intermittent wetting. Blasted steel must be coated before flash rusting can occur. Under no circumstances shall the surface be left uncoated for more than 8 hours. If this time frame has been exceeded, then the steel shall be reblasted.

6.0 PAINTING SCHEDULE

The number of coats called for in this schedule shall be considered minimum. If more coats are required for complete coverage and uniform appearance, they shall be applied. Copper, brass, stainless steel, and rubber do not require painting. Colors not identified in Item 4 above will be selected by the OWNER from standard manufacturer's color samples.

System A

Type of Surface: Pre-painted Ferrous Metal

Type of Structure: Miscellaneous Ferrous Metal, Piping, Fittings & Valves, etc.

Exposure Condition: Non-Submerged, Exterior

Surface Preparation: All surfaces shall be dry, clean, and free of all contaminants. Remove all loosely adhering paint by hand or Power Tool Cleaning as per SSPC-SP2 or SP3. Apply a test patch to ensure compatibility. Color-coding of piping shall be as specified hereinbefore.

Painting System:

First Coat: Tnemec Series 135 Chembuild applied at 4.0-6.0 mils dry film thickness.

Second Coat: Tnemec Series 1075-Endura-Shield II applied at 2.0-3.0 mils dry film thickness.

Total dry film thickness shall be 6.0-9.0 mils minimum (not including thickness of existing coating).

System E

Type of Surface: PVC

Type of Surface: Interior and Exterior PVC Conduits and Pipes

09900-8

SECTION 09900
PAINTING AND PROTECTIVE COATINGS

Surface Preparation: Hand Sand to roughen pipe surface. Clean as per SSPC-SP1 Solvent Clean with a suitable solvent to remove all inked numbers and provide a surface profile.

Painting System:

First Coat: Tnemec Series 66 Hi-Build Epoxoline applied at 2.0-3.0 mils dry film thickness.

Second Coat: Tnemec Series 1075-Endura-Shield applied at 2.0-5.0 mils dry film thickness.

Total dry film thickness shall be 4.0-8.0 mils minimum.

System F

Type of Surface: Exterior Exposed Ductile Iron Pipe

Surface Preparation: Clean all surfaces as per SSPC-SPI Solvent Cleaning. Measure surface profile in accordance with ASTM D 4417, Method C. If surface profile is less than 1.5 mils, abrasive blast as per SSPC-SP7 Brush-Off Blast Cleaning. If surface profile is greater than 1.5 mils, clean as per SSPC-SP3 Power Tool Cleaning.

Painting System:

First Coat: Tnemec Series 66 Hi-Build Epoxoline applied at 3.0-5.0 mils dry film thickness.

Second Coat: Tnemec Series 66 Hi-Build Epoxoline applied at 4.0-6.0 mils dry film thickness.

Third Coat: Tnemec Series 1075-Endura-Shield II applied at 2.0-5.0 mils dry film thickness.

Total dry film thickness shall be 9.0-16.0 mils minimum per SSPC-PA 2 dry film inspection standards.

System F-1

Type of Surface: Submerged (or Buried) Ductile Iron Pipe

Surface Preparation: Clean all surfaces as per SSPC-SPI Solvent Cleaning. Measure surface profile in accordance with ASTM D 4417, Method C. If surface profile is less than 1.5 mils, abrasive blast as per SSPC-SP7 Brush-Off Blast Cleaning. If surface profile is greater than 1.5 mils, clean as per SSPC-SP3 Power Tool Cleaning.

SECTION 09900
PAINTING AND PROTECTIVE COATINGS

Painting System:

One Coat: Tnemec Series 46H-413 Hi-Build Tneme-Tar applied at 16.0-20.0 mils dry film thickness.

Total dry film thickness shall be 16.0-20.0 mils minimum per SSPC-PA 2 dry film inspection standards.

09900-10

SECTION 09900
PAINTING AND PROTECTIVE COATINGS

7.0 PAYMENT

No direct payment will be made for painting as may be required under the various other items of these specifications, measurement and payment for labor, materials and equipment required to constitute the completed work, or any part thereof as specified will be included in the price bid for the specific bid item where such labor, materials and equipment are required.

8.0 INSPECTION

Inspection will be performed by the OWNER and CONTRACTOR during painting. A final inspection of the job will be conducted by a representative of the OWNER and/or Engineer prior to final acceptance of the Work. Work that is not acceptable by the OWNER must be corrected and a re-inspection requested. The OWNER reserves the right to require this correction at any time during construction or at final inspection.

The CONTRACTOR shall furnish and have on site, one Holiday Detector (Tinker and Razor holiday detector, or equivalent low voltage test apparatus), and one Mikrotest Gauge to use on this project. The finished coatings on all surfaces shall be tested for continuity after the final coat has dried to the extent that it can be walked on without damage. The finish coatings on all surfaces shall be completely without defects permitting moisture penetration when tested according to the low voltage wet-sponge method. The CONTRACTOR shall provide inside tanks ladders, scaffolding, or hanging chairs as necessary for the OWNER and paint manufacturer to make routine inspection of the CONTRACTOR's work, and for final inspection. After the final finish coats have been applied, the tanks shall have a uniform appearance, without shadows, regardless of total dry film thickness obtained. The dry thicknesses specified shall be the total dry thickness after five days drying time measured by a Mikrotest Gauge. Deficiencies in the continuity or final thickness of the coating shall be corrected by applying additional finish coats, at the expense of the CONTRACTOR.

A test report for the coating shall be prepared by the CONTRACTOR and submitted to the OWNER at the conclusion of dry film thickness and continuity testing indicating the test equipment used, the locations where tests were made and the test results at each location, and the name of the person making the tests. The test report shall be certified by a representative of the CONTRACTOR who witnessed the testing. If an OWNER's representative was present at the time that testing was performed, the test report shall indicate the name of the OWNER's representative.

9.0 QUALITY CONTROL

- A. Maintain daily record showing date and time of application for each coat.
- B. Where a wall or ceiling is disturbed and patched, repaint entire wall or ceiling.
- C. Measure wet paint with wet film thickness gages.

SECTION 09900
PAINTING AND PROTECTIVE COATINGS

- D. Measure Paint dry film thickness in accordance with SSP PA-2 using Mikrotest gage calibrated against National Bureau of Standards "Certified Coating Thickness Calibration Standards."
- E. Measure surface temperature of items to be painted with surface temperature gage specifically designed for such.
- F. Measure Substrate humidity with humidity gage specifically designed for such.
- G. Provide wet paint signs.
- H. Testing shall be done in accordance with NACE standard recommended testing practices.
- I. Cleaning
 - 1. Clean paint spattered surfaces. Use care not to damage finished surfaces.
 - 2. Upon completion of painting, replace hardware, accessories, plates, fixtures, and similar items.
 - 3. Remove surplus materials, scaffolding, and debris. Leave areas broom clean.

10.0 GUARANTEE

CONTRACTOR shall guarantee the coating system and the work which he does against defective workmanship and materials for a period of one (1) year from the date of acceptance of the work. An inspection will be made of the facility before the one-year period has expired, to determine whether any repair work is necessary.

The OWNER shall establish the date for the inspection and shall notify the CONTRACTOR at least 30 days in advance. If an inspection date has not been established within 12 months after construction was completed, the first anniversary inspection will be considered to be waived.

Any location where coating has peeled off, bubbled, or cracked, and any location where rusting is evident shall be considered to be a failure of the coating system. The CONTRACTOR shall make repairs at all points where failures are observed by removing the deteriorated coating, cleaning the surface, and recoating with the same coating system.

The CONTRACTOR shall prepare and deliver to the OWNER an inspection report covering the first anniversary inspection, setting forth the number and type of failures observed. Color photographs illustrating each type of failure shall be included in the report.

NOTICE OF AWARD

Dated:

TO:

ADDRESS:

Contract: **Howard Ranch Treated Effluent Fill Station**

Project: **City of Dripping Springs South Regional Wastewater System**
SOUTH

You are notified that your Bid dated _____ for the above Contract has been considered. You are the apparent Successful Bidder and have been awarded a Contract for the construction of **Howard Ranch Treated Effluent Fill Station for City of Dripping Springs South Regional Wastewater System.**

The Total Price of this Contract is _____

Four (4) copies of each of the proposed Contract Documents and three (3) sets of Drawings accompany this Notice of Award.

You must comply with the following conditions precedent within fifteen days of the date of this Notice of Award, that is by _____.

1. Deliver to the OWNER four (4) fully executed counterparts of the Contract Documents. Each of the Contract Documents must bear your signature on the **Standard Form of Agreement Between Owner and Contractor on The Basis of a Stipulated Price.**
2. Deliver with the executed Contract Documents the Contract security (Bonds) as specified in the Instructions to Bidders (paragraph 5) and General Conditions (paragraph 6.01).

NOTICE OF AWARD

3. (List other conditions precedent).

Failure to comply with these conditions within the time specified will entitle OWNER to consider your Bid in default, to annul this Notice of Award and to declare your Bid security forfeited.

Within ten days after you comply with the above conditions, OWNER will return to you one fully executed counterpart of the Contract Documents.

**OWNER:
City of Dripping Springs**

By: _____
Bill Foulds
Mayor

Attest: _____

ACCEPTANCE OF NOTICE BY BIDDER

Receipt of this Notice of Award is hereby acknowledged by _____ ,
this _____ day of _____ , 2025

By: _____
Signature

Typed or Printed Name

Title

Copy to Engineer (Use Certified Mail, Return Receipt Requested)

NOTICE TO PROCEED

Dated:

TO:

ADDRESS:

Contract: **City of Dripping Springs South Regional Wastewater System
Howard Ranch Treated Effluent Fill Station**

Project: **City of Dripping Springs South Regional Wastewater System
Howard Ranch Treated Effluent Fill Station**

You are notified that the Contract Times under the above contract will commence to run on _____. By that date, you are to start performing your obligations under the Contract Documents. In accordance with Article 4 of the Agreement the date of Substantial Completion is _____ and the date of readiness for final payment is _____.

Before you may start any Work at the site, you must

Ensure silt fence and all environmental controls are in place prior to any construction.

OWNER: **City of Dripping Springs**

By: _____
Bill Foulds
Mayor

Attest: _____

NOTICE TO PROCEED

ACCEPTANCE OF NOTICE BY BIDDER

Receipt of this Notice to Proceed is hereby acknowledged by,

this _____ day of _____, 2025.

By: _____
Signature

Typed or Printed Name

Title

Copy to Engineer¹

¹Use Certified Mail, Return Receipt Requested

CERTIFICATE OF SUBSTANTIAL COMPLETION

DATE OF ISSUANCE _____

OWNER _____

CONTRACTOR _____

Contract: _____

Project: **Howard Ranch Treated Effluent Fill Station**

OWNER's Contract No. _____

ENGINEER's Project No. 1873

This Certificate of Substantial Completion applies to all Work under the Contract Documents or to the following specified parts thereof:

To _____
OWNER

And To _____
CONTRACTOR

The Work to which this Certificate applies has been inspected by authorized representatives of OWNER, CONTRACTOR and ENGINEER, and that Work is hereby declared to be substantially complete in accordance with the Contract Documents on

DATE OF SUBSTANTIAL COMPLETION

A tentative list of items to be completed or corrected is attached hereto. This list may not be all-inclusive, and the failure to include an item in it does not alter the responsibility of CONTRACTOR to complete all the Work in accordance with the Contract Documents. The items in the tentative list shall be completed or corrected by CONTRACTOR within _____ days of the above date of Substantial Completion.

EJCDC No. 1910-8-D (1996 Edition)

Prepared by the Engineers' Joint Contract Documents Committee and endorsed by The Associated general Contractors of America and the Construction Specifications Institute.

The responsibilities between OWNER and CONTRACTOR for security, operation, safety, maintenance, heat, utilities, insurance and warranties and guarantees shall be as follows:

OWNER: _____

CONTRACTOR: _____

The following documents are attached to and made a part of this Certificate:

(For items to be attached see definition of Substantial Completion as supplemented and other specifically noted conditions precedent to achieving Substantial Completion as required by Contract Documents.)

This certificate does not constitute an acceptance of Work not in accordance with the Contract Documents nor is it a release of CONTRACTOR's obligation to complete the Work in accordance with the Contract Documents.

Executed by ENGINEER on _____
Date

ENGINEER

By: _____
(Authorized Signature)

CONTRACTOR accepts this Certificate of Substantial Completion on _____
Date

CONTRACTOR

By: _____
(Authorized Signature)

OWNER accepts this Certificate of Substantial Completion on _____
Date

OWNER

By: _____
(Authorized Signature)

WORK CHANGE DIRECTIVE

No. _____

DATE OF ISSUANCE _____

EFFECTIVE DATE _____

OWNER _____

CONTRACTOR _____

Contract: _____

Project: _____

OWNER's Contract No. _____

ENGINEER's Project No. _____

You are directed to proceed promptly with the following change(s):

Description:

Purpose of Work Change Directive:

Attachments: (List documents supporting change)

If OWNER or CONTRACTOR believe that the above change has affected Contract Price any Claim for a Change Order based thereon will involve one or more of the following methods as defined in the Contract Documents.

Method of determining change in Contract Price:

- Unit Prices
- Lump Sum
- Cost of the Work _____

Estimated increase (decrease) in Contract Price:
\$ _____.

If the change involves an increase, the estimated amount is not to be exceeded without further authorization.

Estimated increase (decrease) in Contract Times:

Substantial Completion: _____ days;

Ready for final payment: _____ days.

RECOMMENDED:

AUTHORIZED:

ENGINEER

OWNER

By: _____

By: _____

WORK CHANGE DIRECTIVE

INSTRUCTIONS

A. GENERAL INFORMATION

This document was developed for use in situations involving changes in the Work which, if not processed expeditiously, might delay the Project. These changes are often initiated in the field and may affect the Contract Price or the Contract Times. This is not a Change Order, but only a directive to proceed with Work that may be included in a subsequent Change Order.

For supplemental instructions and minor changes not involving a change in the Contract Price or the Contract Times a Field Order should be used.

B. COMPLETING THE WORK CHANGE DIRECTIVE FORM

Engineer initiates the form, including a description of the items involved and attachments.

Based on conversations between Engineer and Contractor, Engineer completes the following:

METHOD OF DETERMINING CHANGE, IF ANY, IN CONTRACT PRICE: Mark the method to be used in determining the final cost of Work involved and the estimated net effect on the Contract Price. If the change involves an increase in the Contract Price and the estimated amount is approached before the additional or changed Work is completed, another Work Change Directive must be issued to change the estimated price or Contractor may stop the changed Work when the estimated time is reached. If the Work Change Directive is not likely to change the Contract Price, the space for estimated increase (decrease) should be marked "Not Applicable".

Once Engineer has completed and signed the form, all copies should be sent to Owner for authorization because Engineer alone does not have authority to authorize changes in Price or Times. Once authorized by Owner, a copy should be sent by Engineer to Contractor. Price and Times may only be changed by Change Order signed by Owner and Contractor with Engineer's recommendation.

Paragraph 10.03.A.2 of the General Conditions requires that a Change Order be initiated and processed to cover any undisputed sum or amount of time for Work actually performed pursuant to this Work Change Directive.

Once the Work covered by this directive is completed or final cost and times are determined, Contractor should submit documentation for inclusion in a Change Order.

THIS IS A DIRECTIVE TO PROCEED WITH A CHANGE THAT MAY AFFECT THE CONTRACT PRICE OR CONTRACT TIMES. A CHANGE ORDER, IF ANY, SHOULD BE CONSIDERED PROMPTLY.

CHANGE ORDER

No. _____

DATE OF ISSUANCE _____

EFFECTIVE DATE _____

OWNER _____

CONTRACTOR _____

Contract: _____

Project: _____

OWNER's Contract No. _____ ENGINEER's Contract No. _____

ENGINEER _____

You are directed to make the following changes in the Contract Documents:

Description:

Reason for Change Order:

Attachments: (List documents supporting change)

| CHANGE IN CONTRACT PRICE: |
|--|
| Original Contract Price |
| \$ _____ |
| Net Increase (Decrease) from previous Change Order: No. _____ to _____: |
| \$ _____ |
| Contract Price prior to this Change Order: |
| \$ _____ |
| Net increase (decrease) of this Change Order: |
| \$ _____ |
| Contract Price with all approved Change Orders: |
| \$ _____ |

| CHANGE IN CONTRACT TIMES: |
|---|
| Original Contract Times |
| Substantial Completion: _____ |
| Ready for final payment: _____ |
| (days or dates) |
| Net change from previous Change Orders No. _____ to No. _____: |
| Substantial Completion: _____ |
| Ready for final payment: _____ |
| (days) |
| Contract Times prior to this Change Order: |
| Substantial Completion: _____ |
| Ready for final payment: _____ |
| (days or dates) |
| Net increase (decrease) this Change Order: |
| Substantial Completion: _____ |
| Ready for final payment: _____ |
| (days) |
| Contract Times with all approved Change Orders: |
| Substantial Completion: _____ |
| Ready for final payment: _____ |
| (days or dates) |

RECOMMENDED:

By: _____
ENGINEER (Authorized Signature)

Date: _____

APPROVED:

By: _____
OWNER (Authorized Signature)

Date: _____

ACCEPTED:

By: _____
CONTRACTOR (Authorized Signature)

Date: _____

EJCDC No. 1910-8-D (1996 Edition)

Prepared by the Engineers' Joint Contract Documents Committee and endorsed by The Associated general Contractors of America and the Construction Specifications Institute.

CHANGE ORDER

INSTRUCTIONS

A. GENERAL INFORMATION

This document was developed to provide a uniform format for handling contract changes that affect Contract Price or Contract Times. Changes that have been initiated by a Work Change Directive must be incorporated into a subsequent Change Order if they affect Price or Times.

Changes that affect Contract Price or Contract Times should be promptly covered by a Change Order. The practice of accumulating Change Orders to reduce the administrative burden may lead to unnecessary disputes.

If Milestones have been listed in the Agreement, any effect of a Change Order thereon should be addressed.

For Supplemental instructions and minor changes not involving a change in the Contract Price or Contract Times, a Field Order should be used.

B. COMPLETING THE CHANGE ORDER FORM

Engineer normally initiates the form, including a description of the changes involved and attachments based upon documents and proposals submitted by Contractor, or requests from Owner, or both.

Once Engineer has completed and signed the form, all copies should be sent to Owner or Contractor for approval, depending on whether the Change Order is a true order to the Contractor or the formalization of a negotiated agreement for a previously performed change. After approval by one contracting party, all copies should be sent to the other party for approval. Engineer should make distribution of executed copies after approval by both parties.

If a change only applies to price or to times, cross out the part of the tabulation that does not apply.

AFFIDAVIT OF BILLS PAID AND WAIVER OF LIEN

STATE OF TEXAS

COUNTY OF _____

Whereas, the undersigned _____ (“Contractor”) has been employed by _____ for the Project known as:

**City of Dripping Springs
South Regional Wastewater System
Howard Ranch Treated Effluent Fill Station**

In consideration of final payment on the above referenced contract, contract amount of \$_____ as of _____, 20____, Contractor hereby represents and warrants that it (i) has made or provided for proper payment of all subcontractors, labor and materials; and (ii) that as of the date hereof, Contractor has received no notice of any claim for mechanic’s or other lien arising as a result of the work.

Contractor

By: _____
Signature

SUBSCRIBED AND SWORN BEFORE ME THIS _____ day of _____, 20__ to certify which witness by my hand and seal of office.

Signature of Notary

CERTIFICATE OF FINAL COMPLETION

DATE OF ISSUANCE _____

OWNER _____

CONTRACTOR _____

Contract: _____

Project: _____

OWNER's Contract No. _____

ENGINEER's Project No. _____

This Certificate of Final Completion applies to all Work under the Contract Documents or to the following specified parts thereof:

To _____

OWNER

And To _____

CONTRACTOR

The Work to which this Certificate applies has been inspected by authorized representatives of OWNER, CONTRACTOR and ENGINEER, and that Work is hereby declared to be finally complete in accordance with the Contract Documents on

DATE OF FINAL COMPLETION

By our acceptance of the Work, this date also establishes the start of the warranty period.

EJCDC No. 1910-8-D (1996 Edition)

This is a modified Substantial Completion Form prepared by the Engineers' Joint Contract Documents Committee and endorsed by The Associated general Contractors of America and the Construction Specifications Institute.

The responsibilities between OWNER and CONTRACTOR for security, operation, safety, maintenance, heat, utilities, insurance and warranties and guarantees shall be as follows:

OWNER: _____

CONTRACTOR: _____

The following documents are attached to and made a part of this Certificate:

This certificate does not constitute an acceptance of Work not in accordance with the Contract Documents nor is it a release of CONTRACTOR's obligation to complete the Work in accordance with the Contract Documents.

Executed by ENGINEER on _____
Date

ENGINEER

By: _____
(Authorized Signature)

CONTRACTOR accepts this Certificate of Final Completion on _____
Date

CONTRACTOR

By: _____
(Authorized Signature)

OWNER accepts this Certificate of Final Completion on _____
Date

OWNER

By: _____
(Authorized Signature)