

Construction Specifications and Contract Documents



Louisiana Department of Agriculture and Forestry
Louisiana Agricultural Finance Authority

Indian Creek Recreation Area
Proposed Camping Site Project
100 Campground Road, Woodworth, Louisiana 71485

March 20, 2020

Prepared by:
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J.V. Burkes and Associates, Inc. Project Number: 20180771

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ADVERTISEMENT FOR BIDS

Sealed bids will be received for the State of Louisiana, Department of Agriculture and Forestry, Louisiana Agricultural Finance Authority by the Designer, Department of Agriculture and Forestry, Office of Management and Finance Conference Room, 5825 Florida Boulevard, Baton Rouge, Louisiana 70806 until 2:00 PM, Friday, April 24, 2020.

ANY PERSON REQUIRING SPECIAL ACCOMMODATIONS SHALL NOTIFY THE DEPARTMENT OF AGRICULTURE AND FORESTRY OF THE TYPE(S) OF ACCOMMODATION REQUIRED NOT LESS THAN SEVEN (7) DAYS BEFORE THE BID OPENING.

FOR: **Indian Creek Recreation Area
Proposed Camping Site Project**

PROJECT NUMBER: **20180771**

Complete Bid Documents for this project are available in electronic form. They may be obtained without charge and without deposit from J.V. Burkes & Associates. Printed copies are not available from the Designer, but arrangements can be made to obtain them through most reprographic firms. Plan holders are responsible for their own reproduction costs. Questions about this procedure shall be directed to the Designer at (985) 649-0075.

All bids shall be accompanied by bid security in an amount of five percent (5.0%) of the sum of the base bid and all alternates. The form of this security shall be as stated in the Instructions to Bidders included in the Bid Documents for this project.

The successful Bidder shall be required to furnish a Performance and Payment Bond written as described in the Instructions to Bidders included in the Bid Documents for this project.

**A PRE-BID CONFERENCE WILL BE HELD
at 2:00 PM on Friday, April 10, 2020 at Indian Creek Recreation Area, 100 Campground Road,
Woodworth, LA 71485**

Bids shall be accepted from Contractors who are licensed under LA. R.S. 37:2150-2192 for the classification of **Highway Street & Bridge Construction**. Bidder is required to comply with provisions and requirements of LA R.S. 38:2212(B)(5). No bid may be withdrawn for a period of forty-five (45) days after receipt of bids, except under the provisions of LA. R.S. 38:2214.

The Owner reserves the right to reject any and all bids for just cause. In accordance with La. R.S. 38:2212(B)(1), the provisions and requirements of this Section; and those stated in the bidding documents shall not be waived by any entity.

When this project is financed either partially or entirely with State Bonds or financed in whole or in part by federal or other funds which are not readily available at the time bids are received, the award of this Contract is contingent upon the granting of lines of credit, or the sale of bonds by the Bond Commission or the availability of federal or other funds. The State shall incur no obligation to the Contractor until the Contract Between Owner and Contractor is fully executed.

Louisiana Department of Agriculture and Forestry is a participant in the Small Entrepreneurship (SE) Program (the Hudson Initiative) and the Veteran-Owned and Service-Connected Disabled Veteran-Owned (LaVet) Small Entrepreneurships Program. Bidders are encouraged to consider participation. Information is available from the Louisiana Economic Development website at <http://smallbiz.louisianaeconomicdevelopment.com/Account/Login>.

PUBLICATION DATES (THE ADVOCATE AND THE TOWN TALK)

First Publication: 3/20/2020

Second Publication: 3/27/2020

Third Publication: 4/3/2020

BIDS SHALL BE SUBMITTED BY ELECTRONIC SUBMISSION TO: www.wes@jvburkes.com

INSTRUCTIONS TO BIDDERS

COMPLETION TIME:

The Bidder shall agree to fully complete the contract within (90) consecutive calendar days, subject to such extensions as may be granted under Paragraph 8.3, in the General Conditions and the Supplementary Conditions, and acknowledges that this construction time will start on or before the date specified in the written "Notice to Proceed" from the Owner.

LIQUIDATED DAMAGES:

The Bidder shall agree to pay as Liquidated Damages the amount of (two hundred) Dollars (\$200) for each consecutive calendar day for which the work is not complete, beginning with the first day beyond the contract completion date stated on the "Notice to Proceed" or as amended by change order.

ARTICLE 1

DEFINITIONS

1.1 The Bid Documents include the following:

Advertisement for Bids
Instructions to Bidders
Bid Form
Bid Bond
General Conditions of the Contract for Construction,
AIA Document A201, 2017 Edition
Supplementary Conditions
Contract Between Owner and Contractor and Performance and Payment Bond
Affidavit
User Agency Documents (if applicable)
Change Order Form
Partial Occupancy Form
Recommendation of Acceptance
Asbestos Abatement (if applicable)
Other Documents (if applicable)
Specifications & Drawings
Addenda issued during the bid period and acknowledged in the Bid Form

1.2 All definitions set forth in the General Conditions of the Contract for Construction, AIA Document A201 and the Supplementary Conditions are applicable to the Bid Documents.

1.3 Addenda are written and/or graphic instruments issued by the Architect prior to the opening of bids, which modify or interpret the Bid Documents by additions, deletions, clarifications, corrections and prior approvals.

1.4 A bid is a complete and properly signed proposal to do the work or designated portion thereof for the sums stipulated therein supported by data called for by the Bid Documents.

1.5 Base bid is the sum stated in the bid for which the Bidder offers to perform the work described as the base, to which work may be added, or deleted for sums stated in alternate bids.

1.6 An alternate bid (or alternate) is an amount stated in the bid to be added to the amount of the base bid if the corresponding change in project scope or materials or methods of construction described in the Bid Documents is accepted.

1.7 A Bidder is one who submits a bid for a prime Contract with the Owner for the work described in the Bid Documents.

1.8 A Sub-bidder is one who submits a bid to a Bidder for materials and/or labor for a portion of the work.

1.9 Where the word "Architect" is used in any of the documents, it shall refer to the Prime Designer of the project, regardless of discipline.

ARTICLE 2

PRE-BID CONFERENCE

2.1 A Pre-Bid Conference shall be held at least 10 days before the date for receipt for bids. The Architect shall coordinate the setting of the date, time and place for the Pre-Bid Conference with the User Agency and shall notify in writing the Owner and all who have received sets of the Bid

Documents to attend. The purpose of the Pre-Bid Conference is to familiarize Bidders with the requirements of the Project and the intent of the Bid Documents, and to receive comments and information from interested Bidders. If the Pre-Bid Conference is stated in the Advertisement for Bids to be a Mandatory Pre-Bid Conference, bids shall be accepted only from those bidders who attend the Pre-Bid Conference. Contractors who are not in attendance for the **entire** Pre-Bid Conference will be considered to have not attended.

2.2 Any revision of the Bid Documents made as a result of the Pre-Bid Conference shall not be valid unless included in an addendum.

ARTICLE 3

BIDDER'S REPRESENTATION

3.1 Each Bidder by making his bid represents that:

3.1.1 He has read and understands the Bid Documents and his bid is made in accordance therewith.

3.1.2 He has visited the site and has familiarized himself with the local conditions under which the work is to be performed.

3.1.3 His bid is based solely upon the materials, systems and equipment described in the Bid Documents as advertised and as modified by addenda.

3.1.4 His bid is not based on any verbal instructions contrary to the Bid Documents and addenda.

3.1.5 He is familiar with Code of Governmental Ethics requirement that prohibits public servants and/or their immediate family members from bidding on or entering into contracts; he is aware that the Designer and its principal owners are considered Public Servants under the Code of Governmental Ethics for the limited purposes and scope of the Design Contract with the State on this Project (see Ethics Board Advisory Opinion, No. 2009-378 and 2010-128); and neither he nor any principal of the Bidder with a controlling interest therein has an immediate family relationship with the Designer or any principal

within the Designer's firm (see La. R.S. 42:1113). Any Bidder submitting a bid in violation of this clause shall be disqualified and any contract entered into in violation of this clause shall be null and void.

3.2 The Bidder must be fully qualified under any State or local licensing law for Contractors in effect at the time and at the location of the work before submitting his bid. In the State of Louisiana, Revised Statutes 37:2150, et seq. will be considered, if applicable.

The Contractor shall be responsible for determining that all of his Sub-bidders or prospective Subcontractors are duly licensed in accordance with law.

ARTICLE 4

BID DOCUMENTS

4.1 Copies

4.1.1 Bid Documents may be obtained from the Architect for a deposit as stated in the Advertisement for Bids. The deposit will be refunded as stated in the Advertisement for Bids. No deposits will be refunded on Bid Documents returned later than ten days after receipt of bids.

4.1.1.2 As an alternative method of distribution, the Designer may provide the Bid Documents in electronic format. They may be obtained without charge and without deposit as stated in the Advertisement for Bids.

4.1.1.2.1 If electronic distribution is available, printed copies will not be available from the Designer, but arrangements can be made to obtain them through most reprographic firms and/or plan rooms.

4.1.1.2.2 If electronic distribution is available, the reproduction cost on the first paper plan set acquired by bona fide prime bidders will be fully refunded by the Designer upon delivery of the documents to the Designer in good condition no later than ten days after receipt of bids.

4.1.1.2.3 If electronic distribution is available, all other plan holders are responsible for their own reproduction costs.

4.1.2 Complete sets of Bid Documents shall be used in preparing bids; neither the Owner nor the Architect assume any responsibility for errors or misinterpretations resulting from the use of incomplete sets of Bid Documents.

4.1.3 The Owner or Architect in making copies of the Bid Documents available on the above terms, do so only for the purpose of obtaining bids on the work and do not confer a license or grant for any other use.

4.2 Interpretation or Correction of Bid Documents

4.2.1 Bidders shall promptly notify the Architect of any ambiguity, inconsistency or error which they may discover upon examination of the Bid Documents or of the site and local conditions.

4.2.2 Bidders requiring clarification or interpretation of the Bid Documents shall make a written request to the Architect, to reach him at least seven days prior to the date for receipt of bids.

4.2.3 Any interpretation, correction or change of the Bid Documents will be made by addendum. Interpretations, corrections or changes of the Bid Documents made in any other manner will not be binding and Bidders shall not rely upon such interpretations, corrections and changes.

4.3 Substitutions

4.3.1 The materials, products and equipment described in the Bid Documents establish a standard of required function, dimension, appearance and quality to be met by any proposed substitution. No substitutions shall be allowed after bids are received.

4.3.2 No substitution will be considered unless written request for approval has been submitted by the Proposer and has been received by the Architect at least seven (7) working days prior to the opening of bids. (La. R.S. 38:2295(C)) Each such request shall include the name of the material or equipment for which it is to be substituted and a complete description of the proposed substitute including model numbers, drawings, cuts, performance and

test data and any other information necessary for an evaluation. A statement setting forth any changes in other materials, equipment or work that incorporation of the substitute would require shall be included. It shall be the responsibility of the proposer to include in his proposal all changes required of the Bid Documents if the proposed product is used. Prior approval, if given, is contingent upon supplier being responsible for any costs which may be necessary to modify the space or facilities needed to accommodate the materials and equipment approved.

4.3.3 If the Architect approves any proposed substitution, such approval shall be set forth in an addendum. Bidders shall not rely upon approvals made in any other manner.

4.4 Addenda

4.4.1 Addenda will be transmitted to all who are known by the Architect to have received a complete set of Bid Documents.

4.4.2 Copies of addenda will be made available for inspection wherever Bid Documents are on file for that purpose.

4.4.3 Except as described herein, addenda shall not be issued within a period of seventy-two (72) hours prior to the advertised time for the opening of bids, excluding Saturdays, Sundays, and any other legal holidays. If the necessity arises of issuing an addendum modifying plans and specifications within the seventy-two (72) hour period prior to the advertised time for the opening of bids, then the opening of bids shall be extended at least seven but no more than twenty-one (21) working days, without the requirement of re-advertising. The Department of Agriculture and Forestry shall be consulted prior to issuance of such an addendum and shall approve such issuance. The revised time and date for the opening of bids shall be stated in the addendum.

4.4.4 Each Bidder shall ascertain from the Architect prior to submitting his bid that he has received all addenda issued, and he shall acknowledge their receipt on the Bid Form.

4.4.5 The Owner shall have the right to extend the bid date by up to (30) thirty days without the

requirement of re-advertising. Any such extension shall be made by addendum issued by the Architect.

ARTICLE 5

BID PROCEDURE

5.1 Form and Style of Bids

5.1.1 Bids shall be submitted on the Louisiana Uniform Public Work Bid Form provided by the Architect for this project.

5.1.2 The Bidder shall ensure that all applicable blanks on the bid form are completely and accurately filled in.

5.1.3 Bid sums shall be expressed in both words and figures, and in case of discrepancy between the two, the written words shall govern.

5.1.4 Any interlineation, alteration or erasure must be initialed by the signer of the bid or his authorized representative.

5.1.5 Bidders are cautioned to complete all alternates should such be required in the Bid Form. Failure to submit alternate prices will render the bid non responsive and shall cause its rejection.

5.1.6 Bidders are cautioned to complete all unit prices should such be required in the Bid Form. Unit prices represent a price proposal to do a specified quantity and quality of work. Unit prices are incorporated into the base bid or alternates, as indicated on the Unit Price Form, but are not the sole components thereof.

5.1.7 Bidder shall make no additional stipulations on the Bid Form nor qualify his bid in any other manner.

5.1.8 Written evidence of the authority of the person signing the bid for the public work shall be submitted in accordance with La. R.S. 38:2212 (B)(5).

5.1.9 On any bid in excess of fifty thousand dollars (\$50,000.00), the Contractor shall certify that he is licensed under La. R.S. 37: 2150-2173 and show his license number on the bid above his signature or his duly authorized representative.

5.2 Bid Security

5.2.1 No bid shall be considered or accepted unless the bid is accompanied by bid security in an amount of five percent (5.0%) of the base bid and all alternates.

The bid security shall be in the form of a certified check or cashier's check drawn on a bank insured by the Federal Deposit Insurance Corporation, or a Bid Bond written by a surety company licensed to do business in Louisiana and signed by the surety's agent or attorney-in-fact. The Bid Bond shall be written on the Department of Agriculture and Forestry Bid Bond Form, and the surety for the bond must meet the qualifications stated thereon. The Bid Bond shall include the legal name of the bidder be in favor of the State of Louisiana, Department of Agriculture and Forestry, and shall be accompanied by appropriate power of attorney. The Bid Bond must be signed by both the bidder/principal and the surety in the space provided on the Department of Agriculture and Forestry Bid Bond Form. Failure by the bidder/principal or the surety to sign the bid bond shall result in the rejection of the bid.

Bid security furnished by the Contractor shall guarantee that the Contractor will, if awarded the work according to the terms of his proposal, enter into the Contract and furnish Performance and Payment Bonds as required by these Bid Documents, within fifteen (15) days after written notice that the instrument is ready for his signature.

Should the Bidder refuse to enter into such Contract or fail to furnish such bonds, the amount of the bid security shall be forfeited to the Owner as liquidated damages, not as penalty.

5.2.2 The Owner will have the right to retain the bid security of Bidders until either (a) the Contract has been executed and bonds have been furnished, or (b) the specified time has elapsed so that bids may be withdrawn, or (c) all bids have been rejected.

5.3 Submission of Bids

5.3.1 The Bid shall be sealed in an opaque envelope. The bid envelope shall be identified on the outside with the name of the project, and the name, address, and license number of the Bidder.

The envelope shall not contain multiple bid forms, and will be received until the time specified and at the place specified in the Advertisement for Bids. It shall be the specific responsibility of the Bidder to deliver his sealed bid to the Department of Agriculture and Forestry at the appointed place and prior to the announced time for the opening of bids. Late delivery of a bid for any reason, including late delivery by United States Mail, or express delivery, shall disqualify the bid.

If the bid is sent by mail, the sealed envelope shall be enclosed in a separate mailing envelope with the notation "Bid Enclosed" on the face thereof. Such bids shall be sent by Registered or Certified Mail, Return Receipt Requested, addressed to:

J.V. Burkes & Associates
1805 Shortcut Highway
Slidell, Louisiana, 70458

Bids sent by express delivery shall be delivered to:

J.V. Burkes & Associates
1805 Shortcut Highway
Slidell, Louisiana, 70458

5.3.2 Bids shall be deposited at the designated location prior to the time on the date for receipt of bids indicated in the Advertisement for Bids, or any extension thereof made by addendum. Bids received after the time and date for receipt of bids will be returned unopened.

5.3.3 Bidder shall assume full responsibility for timely delivery at location designated for receipt of bids.

5.3.4 Oral, telephonic or telegraphic bids are invalid and shall not receive consideration. Owner shall not consider notations written on outside of bid envelope which have the effect of amending the bid. Written modifications enclosed in the bid envelope, and signed or initialed by the Contractor or his representative, shall be accepted.

5.4 Modification or Withdrawal of Bid

5.4.1 A bid may not be modified, withdrawn or canceled by the Bidder during the time stipulated in the Advertisement for Bids, for the period following the time and bid date designated for the receipt of bids, and Bidder so agrees in submitting his bid,

except in accordance with R.S. 38:2214 which states, in part, "Bids containing patently obvious, unintentional, and substantial mechanical, clerical, or mathematical errors, or errors of unintentional omission of a substantial quantity of work, labor, material, or services made directly in the compilation of the bid, may be withdrawn by the contractor if clear and convincing sworn, written evidence of such errors is furnished to the public entity within forty- eight hours of the bid opening excluding Saturdays, Sundays, and legal holidays".

5.4.2 Prior to the time and date designated for receipt of bids, bids submitted early may be modified or withdrawn only by notice to the party receiving bids at the place and prior to the time designated for receipt of bids.

5.4.3 Withdrawn bids may be resubmitted up to the time designated for the receipt of bids provided that they are then fully in conformance with these Instructions to Bidders.

5.4.4 Bid Security shall be in an amount sufficient for the bid as modified or resubmitted.

5.5 Prohibition of Discriminatory Boycotts of Israel

By submitting a bid, the bidder certifies and agrees that the following information is correct:

In preparing its bid, the bidder has considered all proposals submitted from qualified, potential subcontractors and suppliers, and has not, in the solicitation, selection, or commercial treatment of any subcontractor or supplier, refused to transact or terminated business activities, or taken other actions intended to limit commercial relations, with a person or entity that is engaging in commercial transactions in Israel or Israel-controlled territories, with the specific intent to accomplish a boycott or divestment of Israel. The bidder has also not retaliated against any person or other entity for reporting such refusal, termination, or commercially limiting actions. The state reserves the right to reject any bid if this certification is subsequently determined to be false and to terminate any contract awarded based on such a false response.

ARTICLE 6

CONSIDERATION OF BIDS

6.1 Opening of Bids

6.1.1 The properly identified Bids received on time will be opened publicly and will be read aloud, and a tabulation abstract of the amounts of the base bids and alternates, if any, will be made available to Bidders.

6.2 Rejection of Bids

6.2.1 The Owner shall have the right to reject any or all bids and in particular to reject a bid not accompanied by any required bid security or data required by the Bid Documents or a bid in any way incomplete or irregular.

6.3 Acceptance of Bid

6.3.1 It is the intent of the Owner, if he accepts any alternates, to accept them in the order in which they are listed in the Bid Form. Determination of the Low Bidder shall be on the basis of the sum of the base bid and the alternates accepted. However, the Owner shall reserve the right to accept alternates in any order which does not affect determination of the Low Bidder.

ARTICLE 7

POST-BID INFORMATION

7.1 Submissions

7.1.1 At the Pre-Construction Conference, the Contractor shall submit the following information to the Architect.

7.1.1.1 A designation of the work to be performed by the Contractor with his own forces.

7.1.1.2 A breakdown of the Contract cost attributable to each item listed in the Schedule of Values Form (attached). No payments will be made to the Contractor until this is received.

7.1.1.3 The proprietary names and the suppliers of principal items or systems of material and equipment proposed for the work.

7.1.1.4 A list of names and business domiciles of all Subcontractors, manufacturers, suppliers or other persons or organizations (including those who are to

furnish materials or equipment fabricated to a special design) proposed for the principal portions of the work. It is the preference of the Owner that, to the greatest extent possible or practical, the Contractor utilize Louisiana Subcontractors, manufacturers, suppliers and labor.

7.1.2 The General Contractor shall be responsible for actions or inactions of Subcontractors and/or material suppliers.

The General Contractor is totally responsible for any lost time or extra expense incurred due to a Subcontractor's or Material Supplier's failure to perform. Failure to perform includes, but is not limited to, a Subcontractor's financial failure, abandonment of the project, failure to make prompt delivery, or failure to do work up to standard. Under no circumstances shall the Owner mitigate the General Contractor's losses or reimburse the General Contractor for losses caused by these events.

7.1.3 The lowest responsive and responsible bidder shall submit to the Architect and the Owner within ten days after the bid opening a letter/letters from the manufacturer stating that the manufacturer will issue the roof system guarantee complying with the requirements of the Department of Agriculture and Forestry based on the specified roof system and include the name of the applicator acceptable to the manufacturer at the highest level of certification for installing the specified roof system (if applicable). This manufacturer shall be one that has received prior approval or is named in the specifications.

In accordance with La. R.S. 38:2227 [references La R.S. 38:2212(A)(3)(c)(ii), which has since been renumbered as La R.S. 38:2212(B)(3)], La. R.S. 38:2212.10 and La. R.S. 23:1726(B) the apparent low bidder on this project shall submit the completed Attestations Affidavit (Past Criminal Convictions of Bidders, Verification of Employees and Certification Regarding Unpaid Workers Compensation Insurance) form found within this bid package to the Department of Agriculture and Forestry within 10 days after the opening of bids.

ARTICLE 8

PERFORMANCE AND PAYMENT BOND

8.1 Bond Required

8.1.1 The Contractor shall furnish and pay for a Performance and Payment Bond written by a company licensed to do business in Louisiana, which shall be signed by the surety's agent or attorney-in-fact, in an amount equal to 100% of the Contract amount. Surety must be listed currently on the U. S. Department of Treasury Financial Management Service List (Treasury List) as approved for an amount equal to or greater than the contract amount, or must be an insurance company domiciled in Louisiana or owned by Louisiana residents. If surety is qualified other than by listing on the Treasury list, the contract amount may not exceed fifteen percent of policyholders' surplus as shown by surety's most recent financial statements filed with the Louisiana Department of Insurance and may not exceed the amount of \$500,000. However, a Louisiana domiciled insurance company with at least an A- rating in the latest printing of the A. M. Best's Key Rating Guide shall not be subject to the \$500,000 limitation, provided that the contract amount does not exceed ten percent of policyholders' surplus as shown in the latest A. M. Best's Key Rating Guide nor fifteen percent of policyholders' surplus as shown by surety's most recent financial statements filed with the Louisiana Department of Insurance. The Bond shall be signed by the surety's agent or attorney-in-fact. The Bond shall be in favor of the State of Louisiana, Department of Agriculture and Forestry.

8.2 Time of Delivery and Form of Bond

8.2.1 The Bidder shall deliver the required bond to the Owner simultaneous with the execution of the Contract.

8.2.2 Bond shall be in the form furnished by the Department of Agriculture and Forestry, entitled

CONTRACT BETWEEN OWNER AND CONTRACTOR AND PERFORMANCE AND PAYMENT BOND, a copy of which is included in the Bid Documents.

8.2.3 The Bidder shall require the Attorney-in-Fact who executes the required bond on behalf of the surety to affix thereto a certified and current copy of his power of Attorney.

ARTICLE 9

FORM OF AGREEMENT BETWEEN OWNER AND CONTRACTOR

9.1 Form to be Used

9.1.1 Form of the Contract to be used shall be furnished by the Department of Agriculture and Forestry, an example of which is bound in the Bid Documents.

9.2 Award

9.2.1 After award of the Contract, the successful Bidder, if a corporation, shall furnish to the Owner the most current copy of a Disclosure of Ownership Affidavit on file with the Secretary of State.

9.2.2 In accordance with Louisiana Law, when the Contract is awarded, the successful Bidder shall, at the time of the signing of the Contract, execute the Non-Collusion Affidavit included in the Contract Documents

9.2.3 When this project is financed either partially or entirely with State Bonds, the award of this Contract is contingent upon the sale of bonds by the State Bond Commission. The State shall incur no obligation to the Contractor until the Contract Between Owner and Contractor is duly executed.

LOUISIANA UNIFORM PUBLIC WORKS BID FORM

**TO: Louisiana Agricultural Finance Authority
5825 Florida Blvd. STE 1002
Baton Rouge, LA 70806**

**BID FOR: Indian Creek Recreation Area
Proposed Camping Site Project
Bid #20180771**

The undersigned bidder hereby declares and represents that she/he; a) has carefully examined and understands the Bidding Documents, b) has not received, relied on, or based his bid on any verbal instructions contrary to the Bidding Documents or any addenda, c) has personally inspected and is familiar with the project site, and hereby proposes to provide all labor, materials, tools, appliances and facilities as required to perform, in a workmanlike manner, all work and services for the construction and completion of the referenced project, all in strict accordance with the Bidding Documents prepared by: J. V. Burkes & Associates, Inc. and dated: March 19, 2020.

Bidders must acknowledge all addenda. The Bidder acknowledges receipt of the following **ADDENDA** (Enter the number and date the Designer has assigned to each of the addenda that the Bidder is acknowledging):

No. ___ Dated: _____ No. ___ Dated: _____ No. ___ Dated: _____

TOTAL BASE BID: For all work required by the Bidding Documents (including any and all unit prices designated "Base Bid" * but not alternates) the sum of:

_____ Dollars (\$_____)

ALTERNATES: For any and all work required by the Bidding Documents for Alternates including any and all unit prices designated as alternates in the unit price description.

Alternate No. 1 (*Owner to provide description of alternate and state whether add or deduct*) for the lump sum of:
_____ Dollars (\$_____)

Alternate No. 2 (*Owner to provide description of alternate and state whether add or deduct*) for the lump sum of:
_____ Dollars (\$_____)

Alternate No. 3 (*Owner to provide description of alternate and state whether add or deduct*) for the lump sum of:
_____ Dollars (\$_____)

NAME OF BIDDER: _____

ADDRESS OF BIDDER: _____

LOUISIANA CONTRACTOR'S LICENSE NUMBER: _____

NAME OF AUTHORIZED SIGNATORY OF BIDDER: _____

TITLE OF AUTHORIZED SIGNATORY OF BIDDER: _____

SIGNATURE OF AUTHORIZED SIGNATORY OF BIDDER **: _____

DATE: _____

* The Unit Price Form shall be used, as this contract includes unit prices.

** If someone other than a corporate officer signs for the Bidder/Contractor, a copy of a corporate resolution or other signature authorization shall be required for submission of bid. Failure to include a copy of the appropriate signature authorization, if required, may result in the rejection of the bid unless bidder has complied with La. R.S. 38:2212(A)(1)(c) or RS 38:2212(O).

BID SECURITY in the form of a bid bond, certified check or cashier's check as prescribed by LA RS 38:2218.A is attached to and made a part of this bid. If a bid bond is provided it shall be on the attached form and only on the attached form.

LOUISIANA UNIFORM PUBLIC WORKS BID FORM
UNIT PRICE FORM

TO: Louisiana Agricultural Finance Authority
5825 Florida Blvd. STE 1002
Baton Rouge, LA 70806

BID FOR: Indian Creek Recreation Area
Proposed Camping Site Project
Bid #20180771

UNIT PRICES: This form shall be used for any and all work required by the Bidding Documents and described as unit prices. **Amounts shall be stated in figures and only in figures.**

DESCRIPTION: Clearing & Grubbing				<input checked="" type="checkbox"/> Base Bid or <input type="checkbox"/> Alt. #
REF. NO.	QUANTITY	UNIT OF MEASURE	UNIT PRICE	UNIT PRICE EXTENSION (<i>Quantity times Unit Price</i>)
201-01	1	Lump Sum		

DESCRIPTION: Removal & Relocation of Structures & Obstructions				<input checked="" type="checkbox"/> Base Bid or <input type="checkbox"/> Alt. #
REF. NO.	QUANTITY	UNIT OF MEASURE	UNIT PRICE	UNIT PRICE EXTENSION (<i>Quantity times Unit Price</i>)
202-02	1	Lump Sum		

DESCRIPTION: General Excavation				<input checked="" type="checkbox"/> Base Bid or <input type="checkbox"/> Alt. #
REF. NO.	QUANTITY	UNIT OF MEASURE	UNIT PRICE	UNIT PRICE EXTENSION (<i>Quantity times Unit Price</i>)
202-2B	2,467	Cubic Yard		

DESCRIPTION: Embankment				<input checked="" type="checkbox"/> Base Bid or <input type="checkbox"/> Alt. #
REF. NO.	QUANTITY	UNIT OF MEASURE	UNIT PRICE	UNIT PRICE EXTENSION (<i>Quantity times Unit Price</i>)
203-03	5095	Cubic Yard		

DESCRIPTION: Temporary Erosion Control				<input checked="" type="checkbox"/> Base Bid or <input type="checkbox"/> Alt. #
REF. NO.	QUANTITY	UNIT OF MEASURE	UNIT PRICE	UNIT PRICE EXTENSION (<i>Quantity times Unit Price</i>)
204-01	1	Lump Sum		

DESCRIPTION: Class II Base (6"Thick)				<input checked="" type="checkbox"/> Base Bid or <input type="checkbox"/> Alt. # _____
REF. NO.	QUANTITY	UNIT OF MEASURE	UNIT PRICE	UNIT PRICE EXTENSION (<i>Quantity times Unit Price</i>)
302-01	3310	Cubic Yard		

DESCRIPTION: Storm Drain Pipe Arch (24" RCP)				<input checked="" type="checkbox"/> Base Bid or <input type="checkbox"/> Alt. #
REF. NO.	QUANTITY	UNIT OF MEASURE	UNIT PRICE	UNIT PRICE EXTENSION (<i>Quantity times Unit Price</i>)
701-01	84	Linear Feet		

DESCRIPTION: Riprap				<input checked="" type="checkbox"/> Base Bid or <input type="checkbox"/> Alt. #
REF. NO.	QUANTITY	UNIT OF MEASURE	UNIT PRICE	UNIT PRICE EXTENSION (<i>Quantity times Unit Price</i>)
302-01	50	Square Yard		

DESCRIPTION: Traffic Signs				<input checked="" type="checkbox"/> Base Bid or <input type="checkbox"/> Alt. #
REF. NO.	QUANTITY	UNIT OF MEASURE	UNIT PRICE	UNIT PRICE EXTENSION (<i>Quantity times Unit Price</i>)
729-01	8	Each		

DESCRIPTION: 6" PVC PIPE, C-900				<input checked="" type="checkbox"/> Base Bid or <input type="checkbox"/> Alt. #
REF. NO.	QUANTITY	UNIT OF MEASURE	UNIT PRICE	UNIT PRICE EXTENSION (<i>Quantity times Unit Price</i>)
741-01	1218	Linear Foot		

DESCRIPTION: 6" LINE STOP				<input checked="" type="checkbox"/> Base Bid or <input type="checkbox"/> Alt. #
REF. NO.	QUANTITY	UNIT OF MEASURE	UNIT PRICE	UNIT PRICE EXTENSION (<i>Quantity times Unit Price</i>)
741-02	4	Each		

DESCRIPTION: 6" x 6" Tapping Sleeve & 6" Valve				<input checked="" type="checkbox"/> Base Bid or <input type="checkbox"/> Alt. #
REF. NO.	QUANTITY	UNIT OF MEASURE	UNIT PRICE	UNIT PRICE EXTENSION (<i>Quantity times Unit Price</i>)
741-03	4	Each		

DESCRIPTION: 1" PVC Water Line				<input checked="" type="checkbox"/> Base Bid or <input type="checkbox"/> Alt. #
REF. NO.	QUANTITY	UNIT OF MEASURE	UNIT PRICE	UNIT PRICE EXTENSION (<i>Quantity times Unit Price</i>)
741-04	1044	Linear Foot		

DESCRIPTION: RV Water Service Connection				<input checked="" type="checkbox"/> Base Bid or <input type="checkbox"/> Alt. #
REF. NO.	QUANTITY	UNIT OF MEASURE	UNIT PRICE	UNIT PRICE EXTENSION (<i>Quantity times Unit Price</i>)
741-05	34	Each		

DESCRIPTION: 8" Sanitary Sewer Pipe				<input checked="" type="checkbox"/> Base Bid or <input type="checkbox"/> Alt. #
REF. NO.	QUANTITY	UNIT OF MEASURE	UNIT PRICE	UNIT PRICE EXTENSION (<i>Quantity times Unit Price</i>)
742-01	1049	Linear Foot		

DESCRIPTION: Manhole (MH-06)				<input checked="" type="checkbox"/> Base Bid or <input type="checkbox"/> Alt. #
REF. NO.	QUANTITY	UNIT OF MEASURE	UNIT PRICE	UNIT PRICE EXTENSION (<i>Quantity times Unit Price</i>)
742-02	6	Each		

DESCRIPTION: 4" PVC Sewer Pipe				<input checked="" type="checkbox"/> Base Bid or <input type="checkbox"/> Alt. #
REF. NO.	QUANTITY	UNIT OF MEASURE	UNIT PRICE	UNIT PRICE EXTENSION (<i>Quantity times Unit Price</i>)
742-03	1113	Linear Foot		

DESCRIPTION: 20 GPM Grinder Lift Station w/ Control Panel				<input checked="" type="checkbox"/> Base Bid or <input type="checkbox"/> Alt. #
REF. NO.	QUANTITY	UNIT OF MEASURE	UNIT PRICE	UNIT PRICE EXTENSION (<i>Quantity times Unit Price</i>)
742-04	1	Each		

DESCRIPTION: PVC Sewer Cleanout				<input checked="" type="checkbox"/> Base Bid or <input type="checkbox"/> Alt. #
REF. NO.	QUANTITY	UNIT OF MEASURE	UNIT PRICE	UNIT PRICE EXTENSION (<i>Quantity times Unit Price</i>)
742-05	38	Each		

DESCRIPTION: RV Sewer Connection				<input checked="" type="checkbox"/> Base Bid or <input type="checkbox"/> Alt. #
REF. NO.	QUANTITY	UNIT OF MEASURE	UNIT PRICE	UNIT PRICE EXTENSION (<i>Quantity times Unit Price</i>)
742-06	34	Each		

DESCRIPTION: Camp Site Bollard				<input checked="" type="checkbox"/> Base Bid or <input type="checkbox"/> Alt. #
REF. NO.	QUANTITY	UNIT OF MEASURE	UNIT PRICE	UNIT PRICE EXTENSION (<i>Quantity times Unit Price</i>)
800-01	34	Each		

DESCRIPTION: Camp Registration Sign				<input checked="" type="checkbox"/> Base Bid or <input type="checkbox"/> Alt. #
REF. NO.	QUANTITY	UNIT OF MEASURE	UNIT PRICE	UNIT PRICE EXTENSION (<i>Quantity times Unit Price</i>)
800-02	34	Each		

DESCRIPTION: Electrical Trenching & Backfill				<input checked="" type="checkbox"/> Base Bid or <input type="checkbox"/> Alt. #
REF. NO.	QUANTITY	UNIT OF MEASURE	UNIT PRICE	UNIT PRICE EXTENSION (<i>Quantity times Unit Price</i>)
822-01	1184	Linear Foot		

DESCRIPTION: Electrical Conduit & Conductor				<input checked="" type="checkbox"/> Base Bid or <input type="checkbox"/> Alt. #
REF. NO.	QUANTITY	UNIT OF MEASURE	UNIT PRICE	UNIT PRICE EXTENSION (<i>Quantity times Unit Price</i>)
822-02	1508	Linear Foot		

DESCRIPTION: 100 AMP Electrical Service PT.				<input checked="" type="checkbox"/> Base Bid or <input type="checkbox"/> Alt. #
REF. NO.	QUANTITY	UNIT OF MEASURE	UNIT PRICE	UNIT PRICE EXTENSION (<i>Quantity times Unit Price</i>)
822-08.01	8	Each		

DESCRIPTION: 200 AMP Electrical Service PT.				<input checked="" type="checkbox"/> Base Bid or <input type="checkbox"/> Alt. #
REF. NO.	QUANTITY	UNIT OF MEASURE	UNIT PRICE	UNIT PRICE EXTENSION (<i>Quantity times Unit Price</i>)
822-08.02	6	Each		

DESCRIPTION: 50 AMP Electrical Service PT.				<input checked="" type="checkbox"/> Base Bid or <input type="checkbox"/> Alt. #
REF. NO.	QUANTITY	UNIT OF MEASURE	UNIT PRICE	UNIT PRICE EXTENSION (<i>Quantity times Unit Price</i>)
822-08.03	34	Each		

DESCRIPTION: Portland Cement Concrete Pavement 5" (12'x50'Concrete Pads)				Base Bid or <input checked="" type="checkbox"/> Alt. # <u> 1 </u>
REF. NO.	QUANTITY	UNIT OF MEASURE	UNIT PRICE	UNIT PRICE EXTENSION (<i>Quantity times Unit Price</i>)
601-01	2700	Square Yard		

DESCRIPTION: Asphalt Concrete Pavement (1.5" thick Wearing)				Base Bid or <input checked="" type="checkbox"/> Alt. # <u> 2 </u>
REF. NO.	QUANTITY	UNIT OF MEASURE	UNIT PRICE	UNIT PRICE EXTENSION (<i>Quantity times Unit Price</i>)
501-01	3400	Square Yard		

DESCRIPTION: Asphalt Concrete Pavement (1.5" thick Binder)				Base Bid or <input checked="" type="checkbox"/> Alt. # <u> 2 </u>
REF. NO.	QUANTITY	UNIT OF MEASURE	UNIT PRICE	UNIT PRICE EXTENSION (<i>Quantity times Unit Price</i>)
501-02	3400	Square Yard		

DESCRIPTION: Portland Cement Concrete Pavement 5" (15'x50'Concrete Pads)				Base Bid or <input checked="" type="checkbox"/> Alt. # <u>2</u>
REF. NO.	QUANTITY	UNIT OF MEASURE	UNIT PRICE	UNIT PRICE EXTENSION (<i>Quantity times Unit Price</i>)
601-02	2833	Square Yard		

All quantities are estimated. The contractor will be paid based upon actual quantities as verified by the Owner.

FOR INFORMATION ONLY

This document will be prepared by the Louisiana Department of Agriculture and Forestry in the form appropriate for the project.

STATE OF LOUISIANA
PARISH OF «PARISH OF PROJECT»

CONTRACT BETWEEN OWNER AND CONTRACTOR AND PERFORMANCE AND PAYMENT BOND

This agreement entered into this _____ day of _____, 2020, by «Contractor» hereinafter called the "Contractor", whose business address is «Contractor Address», «Contractor City», «Contractor State» «Contractor Zip», and the State of Louisiana, Louisiana Agricultural Finance Authority, herein represented by the contracting officer executing this contract, hereinafter called the "Owner".

Witnesseth that the Contractor and the Owner, in consideration of premises and the mutual covenants; consideration and agreement herein contained, agree as follows:

Statement of Work: The contractor shall furnish all labor and materials and perform all of the work required to build, construct and complete in a thorough and workmanlike manner:

«Project_Reference_1»
«Project_Reference_2»
«Project_Reference_3»
«Project_City», Louisiana
Project No.: «ProjectNo», «Part_No»«WBS»;
«Supplement_Project_No», Part «Supplement_Part_No»
(«Supplement_WBS»)(Supplement)
State ID No.: «StateID» Site Code: «SiteCode»

in strict accordance with Contract Documents prepared by:

«Designer»
«Designer_Address»
«Designer_City», «Designer_State» «Designer_Zip»

It is recognized by the parties herein that said Contract Documents including by way of example and not of limitation, the Drawings and Specifications dated «Drawings and Specs Date», Addenda number(s) «Addenda No», the Instruction to Bidders, Bid Form, General Conditions, Supplementary Conditions, any Addenda thereto, impose duties and obligations upon the parties herein, and said parties thereby agree that they shall be bound by said duties and obligations. For these purposes, all of the provisions contained in the aforementioned Construction Documents are incorporated herein by reference with the same force and effect as though said Construction Documents were herein set out in full.

Time for Completion: The work shall be commenced on a date to be specified in a written order of the Owner and shall be completed within «Time Completion Days» («Time Completion Days») consecutive calendar days from and after the said date.

Liquidated Damages: Contractor shall be assessed Liquidated Damages in the amount of «Liquidated Damages Cost Per Day» per day for each consecutive calendar day which work is not complete beginning with the first day beyond the completion time.

Compensation to be paid to the Contractor: The Owner will pay and the Contractor will accept in full consideration for the performance of the contract the sum of «Contract Amount Words» and No/100 Dollars («Contract Amount Numeral») which sum represents the «Base Bid Only or Plus Alternates»

Taxes: Contractor hereby agrees that the responsibility for payment of taxes from the funds thus received under this Contract and/or legislative appropriation shall be contractor's obligation and identified under Federal tax identification number _____.

Performance and Payment Bond: To these presents personally came and intervened _____, herein acting for _____, a corporation organized and existing under the laws of the State of _____, and duly authorized to transact business in the State of Louisiana, as surety, who declared that having taken cognizance of this contract and of the Construction Documents mentioned herein, he hereby in his capacity as its Attorney in Fact obligates his said company, as Surety for the said Contractor, unto the said Owner, up to the sum of «Contract Amount Words» and No/100 Dollars («Contract Amount Numeral»). By issuance of this bond, the surety acknowledges they are in compliance with R.S. 38:2219.

The condition of this performance and payment bond shall be that should the Contractor herein not perform the contract in accordance with the terms and conditions hereof, or should said Contractor not fully indemnify and save harmless the Owner, from all cost and damages which he may suffer by said Contractor's non-performance or should said Contractor not pay all persons who have and fulfill obligations to perform labor and/or furnish materials in the prosecution of the work provided for herein, including by way of example workmen, laborers, mechanics, and furnishers of materials, machinery, equipment and fixtures, then said Surety agrees and is bound to so perform the contract and make said payment(s).

Provided, that any alterations which may be made in the terms of the contract or in the work to be done under it, or the giving by the Owner of any extensions of time for the performance of the contract, or any other forbearance on the part of either the Owner or the Contractor to the other shall not in any way release the Contractor or the Surety from their liability hereunder, notice to the Surety of any such alterations, extensions or other forbearance being hereby waived.

Contractor acknowledges and agrees to comply with the provisions of La. R.S. 38:2212.10 and federal law pertaining to E-Verify in the performance of services under this Contract.

It is hereby agreed that the Legislative Auditor of the State of Louisiana and/or the Office of the Governor, Division of Administration auditors shall have the option of auditing all accounts of contractor which relate to this contract.

The continuation of this contract is contingent upon the appropriation of funds to fulfill the requirements of the contract by the legislature. If the legislature fails to appropriate sufficient monies to provide for the continuation of the contract, or if such appropriation is reduced by the veto of the Governor or by any means provided in the appropriations act to prevent the total appropriation for the year from exceeding revenues for that year, or for any other lawful purpose, and the effect of such reduction is to provide insufficient monies for the continuation of the contract, the contract shall terminate on the date of the beginning of the first fiscal year for which funds are not appropriated.

The contractor agrees to abide by the requirements of the following as applicable: Title VI of the Civil Rights Act of 1964 and Title VII of the Civil Rights Act of 1964, as amended by the Equal Employment Opportunity Act of 1972, Federal Executive Order 11246 as amended, the Rehabilitation Act of 1973, as amended, the Vietnam Era Veteran's Readjustment Assistance Act of 1974, Title IX of the Education Amendments of 1972, the Age Discrimination Act of 1975, the Fair Housing Act of 1968 as amended, and contractor agrees to abide by the requirements of the Americans with Disabilities Act of 1990.

Contractor agrees not to discriminate in its employment practices, and will render services under this contract without regard to race, color, religion, sex, sexual orientation, national origin, veteran status, political affiliation, disability, or age in any matter relating to employment. Any act of discrimination committed by Contractor, or failure to comply with these statutory obligations when applicable shall be grounds for termination of this contract.

In accordance with Executive Order Number JBE 2018-15, effective May 22, 2018, for any contract for \$100,000 or more and for any contractor with five or more employees, Contractor, or any Subcontractor, shall certify it is not engaging in a boycott of Israel, and shall, for the duration of this contract, refrain from a boycott of Israel. The State reserves the right to terminate this contract if the Contractor, or any Subcontractor, engages in a boycott of Israel during the term of the contract.

Contractor has a continuing obligation to disclose any suspensions or debarment by any government entity, including but not limited to General Services Administration (GSA). Failure to disclose may constitute grounds for suspension and/or termination of the Contract and debarment from future Contracts.

Contractor, and each tier of Subcontractors, shall certify that it is not on the List of Parties Excluded from Federal Procurement or Nonprocurement Programs promulgated in accordance with E.O.s 12549 and 12689, "Debarment and Suspension," as set forth at 24 CFR part 24.

In Witness whereof, the parties hereto on the day and year first above written have executed this agreement in six (6) counterparts, each of which shall, without proof or accountancy for the other counterparts, be deemed an original thereof.

THUS DONE AND SIGNED at Baton Rouge, Louisiana, on the day, month, and year first written above.

WITNESSES:

**STATE OF LOUISIANA
LOUISIANA AGRICULTURAL FINANCE AUTHORITY**

Owner Witness #1 Sign Here

BY: _____
**MIKE STRAIN, DVM
CHAIRMAN**

Owner Witness #2 Sign Here

Contractor Witness #1 Sign Here

BY: _____
«CONTRACTOR»

Contractor Witness #2 Sign Here

SURETY:

Surety Witness #1 Sign Here

BY: _____
ATTORNEY IN FACT

Surety Witness #2 Sign Here

ADDRESS

TELEPHONE NUMBER

PROJECT NO.: «ProjectNo», «Part No»«WBS»;
«Supplement Project No», Part
«Supplement Part No» («Supplement WBS»)(Supplement)
NAME: «Project Reference 1»
«Project Reference 2»
«Project Reference 3»
LOCATION: «Project City»

NON-COLLUSION AFFIDAVIT

Before me, the undersigned authority, duly commissioned and qualified within and for the State and Parish aforesaid, personally came and appeared _____ representing «Contractor» who, being by me first duly sworn deposed and said that he has read this affidavit and does hereby agree under oath to comply with all provisions herein as follows:

PART I.

Section 2224 of Part II of Chapter 10 of Title 38 of the Louisiana Revised Statutes, as amended.

(1) That affiant employed no person, corporation, firm, association, or other organization, either directly or indirectly, to secure the public contract under which he received payment, other than persons regularly employed by the affiant whose services in connection with the construction, alteration or demolition of the public building or project or in securing the public contract were in the regular course of their duties for affiant; and

(2) That no part of the Contract price received by affiant was paid or will be paid to any person, corporation, firm, association, or other organization for soliciting the Contract, other than the payment of their normal compensation to persons regularly employed by the affiant whose services in connection with the construction, alteration or demolition of the public building or project were in the regular course of their duties for affiant.

PART II.

Section 2190 of Part I of Chapter 10 of Title 38 of the Louisiana Revised Statutes, as amended.

That affiant, if an architect or engineer, or representative thereof, does not own a substantial financial interest, either directly or indirectly, in any corporation, firm, partnership, or other organization which supplies materials for the construction of a public work when the architect or engineer has performed architectural or engineering services, either directly or indirectly, in connection with the public work for which the materials are being supplied.

For the purposes of this Section, a "substantial financial interest" shall exclude any interest in stock being traded on the American Stock Exchange or the New York Stock Exchange.

That affiant, if subject to the provisions of this section, does hereby agree to be subject to the penalties involved for the violation of this section.

AFFIANT

SWORN TO AND SUBSCRIBED BEFORE ME THIS _____ DAY OF _____, 2020.

NOTARY

❖ NOT FOR RECORDATION PURPOSES ❖

Department of Agriculture and Forestry
RECOMMENDATION OF ACCEPTANCE

TO: Louisiana Agricultural Finance Authority
5825 Florida Blvd. STE 1002
Baton Rouge, LA 70806

FROM: _____

Design Firm Name and Address

DATE: _____

PROJECT NAME: _____

PROJECT NUMBER: _____ WBS No. _____

SITE CODE: _____ STATE ID: _____ CFMS/SRM #: _____

CONTRACTOR: _____

ORIGINAL CONTRACT AMOUNT: \$ _____

FINAL CONTRACT AMOUNT: \$ _____

FINAL BUILDING AREA (SQ. FEET): _____

I certify that, to the best of my knowledge and belief, this project is substantially complete in accordance with the Plans and Specifications to the point where it can be used for the purpose which was intended. It is recommended that it be accepted.

DATE OF ACCEPTANCE: _____

CONTRACT DATE OF COMPLETION: _____

NUMBER OF DAYS (OVERRUN) (UNDERRUN) (As of Acceptance Date) _____

LIQUIDATED DAMAGES PER DAY STIPULATED IN CONTRACT \$ _____

VALUE OF PUNCH LIST \$ _____ (*Attach punch list*)

Was part of project occupied prior to Acceptance?

PORTION OCCUPIED: (*Attach Partial Occupancy Forms*)

ROOF GUAR-MANUF: _____ START DATE: _____ END DATE: _____

ROOFER: _____ START DATE: _____ END DATE: _____

Signed: _____
DESIGNER

FOR USE OF PROJECT MANAGER:

Signed: _____
PROJECT MANAGER

c: User Agency

❖ NOT FOR RECORDATION PURPOSES ❖

Department of Agriculture and Forestry

CHANGE ORDER

PROJECT NAME:	_____	CHANGE ORDER No.	_____
PROJECT NUMBER:	_____	WBS No.	_____
CONTRACTOR:	_____	CONTRACT DATE:	_____
SITE CODE:	_____	STATE ID:	_____
		NOTICE TO PROCEED DATE:	_____

You are directed to make the following change(s) in this contract. Attach SUMMARY, BREAKDOWN and/or UNIT PRICE BREAKDOWN forms as required and give a brief description of the change(s) below.

The Original Contract Sum	_____
Total Changes by Previous Change Order(s)	_____
Current Contract Sum	_____
Contract Sum will be (increased) (decreased) (unchanged) by this Change Order	_____
New Contract Sum	_____
The Original Contract Completion Date and Contract Time.	Date: _____ DAYS
Total Time extended by Previous Change Order(s)	_____ DAYS
Contract Time will be (increased) (decreased) (unchanged) by this Change Order	_____ DAYS
New Contract Completion Date & Revised Contract Time	Date: _____ DAYS
Added Building Area	_____ (Sq. Ft.)

NOTE : No additional increase in time or money will be considered for a Change Order item after it has been executed.

RECOMMENDED	ACCEPTED	APPROVED
Designer's Name:	Contractor's Name:	Project Manager:
_____	_____	_____
Address:	Address:	Department of Agriculture and Forestry
_____	_____	
Email Address:	Email Address:	
_____	_____	
By:	By:	By:
_____	_____	_____
Date:	Date:	Date:
_____	_____	_____

COMMENTS:

Name of Project

Project No.

STATE OF _____

PARISH OF _____

ATTESTATIONS AFFIDAVIT

Before me, the undersigned notary public, duly commissioned and qualified in and for the parish and state aforesaid, personally came and appeared Affiant, who after being duly sworn, attested as follows:

LA. R.S. 38:2227 PAST CRIMINAL CONVICTIONS OF BIDDERS

A. No sole proprietor or individual partner, incorporator, director, manager, officer, organizer, or member who has a minimum of a ten percent (10%) ownership in the bidding entity named below has been convicted of, or has entered a plea of guilty or nolo contendere to any of the following state crimes or equivalent federal crimes:

- | | |
|---------------------------------------|------------------------------------|
| (a) Public bribery (R.S. 14:118) | (c) Extortion (R.S. 14:66) |
| (b) Corrupt influencing (R.S. 14:120) | (d) Money laundering (R.S. 14:230) |

B. Within the past five years from the project bid date, no sole proprietor or individual partner, incorporator, director, manager, officer, organizer, or member who has a minimum of a ten percent (10%) ownership in the bidding entity named below has been convicted of, or has entered a plea of guilty or nolo contendere to any of the following state crimes or equivalent federal crimes, during the solicitation or execution of a contract or bid awarded pursuant to the provisions of Chapter 10 of Title 38 of the Louisiana Revised Statutes:

- | | |
|--|--|
| (a) Theft (R.S. 14:67) | (f) Bank fraud (R.S. 14:71.1) |
| (b) Identity Theft (R.S. 14:67.16) | (g) Forgery (R.S. 14:72) |
| (c) Theft of a business record
(R.S.14:67.20) | (h) Contractors; misapplication of
payments (R.S. 14:202) |
| (d) False accounting (R.S. 14:70) | (i) Malfeasance in office (R.S. 14:134) |
| (e) Issuing worthless checks
(R.S. 14:71) | |

LA. R.S. 38:2212.10 Verification of Employees

- A. At the time of bidding, Appearer is registered and participates in a status verification system to verify that all new hires in the state of Louisiana are legal citizens of the United States or are legal aliens.
- B. If awarded the contract, Appearer shall continue, during the term of the contract, to utilize a status verification system to verify the legal status of all new employees in the state of Louisiana.
- C. If awarded the contract, Appearer shall require all subcontractors to submit to it a sworn affidavit verifying compliance with Paragraphs (A) and (B) of this Subsection.

Name of Project

Project No.

LA. R.S. 23:1726(B) Certification Regarding Unpaid Workers Compensation Insurance

- A. R.S. 23:1726 prohibits any entity against whom an assessment under Part X of Chapter 11 of Title 23 of the Louisiana Revised Statutes of 1950 (Alternative Collection Procedures & Assessments) is in effect, and whose right to appeal that assessment is exhausted, from submitting a bid or proposal for or obtaining any contract pursuant to Chapter 10 of Title 38 of the Louisiana Revised Statutes of 1950 and Chapters 16 and 17 of Title 39 of the Louisiana Revised Statutes of 1950.
- B. By signing this bid /proposal, Affiant certifies that no such assessment is in effect against the bidding / proposing entity.

NAME OF BIDDER

NAME OF AUTHORIZED SIGNATORY OF BIDDER

DATE

TITLE OF AUTHORIZED SIGNATORY OF BIDDER

**SIGNATURE OF AUTHORIZED
SIGNATORY OF BIDDER/AFFIANT**

Sworn to and subscribed before me by Affiant on the ____ day of _____, 20__.

Notary Public

SECTION 01100 – SUMMARY OF WORK

PART 1 – GENERAL

1.01 RELATED DOCUMENTS

- A. Drawings and general provisions of the Contract, including General Conditions, Contract Documents, Special Provisions, and other Division 1 Specification Sections, apply to this Section.

1.02 SUMMARY

- A. This section includes, but is not limited to the following:

1. Project information.
2. Work covered by Contract Documents.
3. Access to site.
4. Work restrictions.
5. Specification and drawing conventions.

- B. Related Sections:

1. Division 0 and Division 1 Section "Temporary Facilities and Controls" for limitations and procedures governing temporary use of Owner's facilities.

1.03 PROJECT INFORMATION

- A. Project Identification:

- B. Project Location:

- C. Owner:

1. Owner's Representative:

- D. Engineer: J. V. Burkes & Associates, Inc.

1. Engineer's Representative: Wesley Roy, PE, J. V. Burkes & Associates, Inc., 1805 Shortcut Highway, Slidell, Louisiana, phone no. 985-649-0075.

1.04 WORK COVERED BY CONTRACT DOCUMENTS

- A. The Work of the Project is defined by the Contract Documents and consists of the following:

1. The project consists of the construction of the City Court Parking Lot, including, but not limited to, removal of debris and trees, site improvements, paving construction, and drainage construction.

As described by the contract documents were prepared for the Project by J. V. Burkes and Associates, Inc., 1805 Shortcut highway, Slidell, LA 70458.

2. The Owner intends to enter into a Contract for general construction including, but not limited to, removal of debris and trees, site improvements, paving construction, and drainage construction.

3. The Contractor shall be responsible for a complete and finished final project. He shall provide and furnish all labor, materials, tools, equipment, and perform all work and services necessary for or incidental to the furnishings and installation complete of all work under this contract as described above, in accordance with the provisions of the contract documents and completely coordinated with that of all other trades. Although such work is not specifically shown or specified, all supplementary or miscellaneous items, appurtenances and devices incidental to or necessary for a sound, secure, safe, and complete installation shall be furnished and installed as part of this work.

B. Type of Contract

1. Project will be constructed under a single prime contract.

1.05 ACCESS TO SITE

- A. General: During the construction period the Contractor shall have coordinate use on premises as directed by Owner and Engineer. Limit use of Project site for work and storage to allow:
 1. Space for subcontractors' use.
- B. Use of Site: Limit use of Project site to areas within the Contract limits indicated. Do not disturb portions of Project site beyond areas in which the Work is indicated.
- C. The Contractor is responsible for restoration of onsite and offsite areas disturbed in the performance of the Work.

1.06 WORK RESTRICTIONS

- A. General: Comply with restrictions on construction operations.
 1. Comply with limitations on use of public streets and other requirements of authorities having jurisdiction.
- B. On-Site Work Hours: Coordinate work hours, weekend hours, and holiday hours with Owner and all local entities.
- C. Existing Utility Interruptions: Do not interrupt utilities serving facilities occupied by Owner or others unless permitted under the following conditions and then only after providing temporary utility services according to requirements indicated:
 1. Notify Owner not less than two days in advance of proposed utility interruptions.
 2. Obtain Owner's written permission before proceeding with utility interruptions.
- D. Nonsmoking jobsite: Smoking is not permitted on jobsite.
- E. Employee Screening: Comply with Owner's requirements regarding screening of Contractor personnel working on the Project site.
 1. Maintain list of approved screened personnel with Owner's Representative.
- F. Uniforms: Workers are not allowed to wear shorts or tank tops.
- G. Electronics: No radios are allowed on site.

1.07 SPECIFICATION AND DRAWING CONVENTIONS

- A. Specification Content: The Specifications use certain conventions for the style of language and the intended meaning of certain terms, words, and phrases when used in particular situations. These conventions are as follows:
 - 1. Imperative mood and streamlined language are generally used in the Specifications. The words "shall," "shall be," or "shall comply with," depending on the context, are implied where a colon (:) is used within a sentence or phrase.
 - 2. Specification requirements are to be performed by Contractor unless specifically stated otherwise.
- B. Division 1 General Requirements: Requirements of Sections in Division 1 apply to the Work of all Sections in the Specifications.
- C. Drawing Coordination: Requirements for materials and products identified on the Drawings are described in detail in the Specifications. One or more of the following are used on the Drawings to identify materials and products:
 - 1. Terminology: Materials and products are identified by the typical generic terms used in the individual Specifications Sections.
 - 2. Abbreviations: Materials and products are identified by abbreviations scheduled on Drawings.
 - 3. Keynoting: Materials and products are identified by reference keynotes referencing Specification Section numbers found in this Project Manual.

1.08 DIVISION OF RESPONSIBILITY

- A. Accuracy of Existing Details: Details showing existing conditions are furnished for the Contractor's convenience and are representative of what the Engineer and Owner believe to be the existing conditions. It is the responsibility of the Contractor to fully verify all existing conditions and related details.
- B. These specifications are prepared in such a way as to distinguish as much as is possible, the responsibilities and work of the Contractor, Subcontractor, and Material Suppliers generally using a revised CSI Format. It shall be the responsibility of the Contractor to determine whether all phases of the work are included in his proposal at bid time and during construction who has the actual responsibility to perform the work as long as all parties are capable, so far as experience and ability are concerned, to do so.

1.09 WARRANTY PERIODS

- A. Unless specified otherwise for individual and particular parts of the work, all workmanship, materials, and equipment included in the work of the contract shall be unconditionally guaranteed for a period of one (1) year from the date of final acceptance of the Project. Final acceptance of the Project shall be the date established by the Owner as the date when final payment to the Contractor is due. This one (1) year warranty shall have no effect on other longer warranties required elsewhere in these specifications.
- B. During the warranty period, if any phase of the work is found to be defective in quality or workmanship, the Owner or his representative may, upon demand, require that the Contractor correct the defect by repair or entire replacement of equipment and/or materials as the situation demands. When this becomes necessary, the warranty period, for the defective work only, shall be extended for a period of one (1) year from the date of final acceptance of the new work.

1.10 PERMITS AND CODES

- A. The Contractor shall be responsible for all permits, licenses, fees, and other requirements by Federal, State, Parish, and Local agencies, governments, etc. for specific interest to the Contractor for this Project.

- B. The Contractor shall be responsible for compliance with all codes, regulations, ordinances, and laws specifically of interest are the disposal of trash and debris, burning on site, and transportation through the Parish and applicable Cities. Familiarization with all special restrictions and requirements is the sole responsibility of the Contractor prior to bidding.

1.11 ORDERING AND DELIVERY OF PRODUCTS

- A. It is important for Contractor, Subcontractors, and Materials Suppliers to order products specified to be used in the project as soon as possible. Failure to order promptly any products specified, especially those with long delivery dates, may cause the project to be delayed and will not constitute a valid reason for substitution of a different product in order to save time. It is the responsibility of those who furnish the products, to the project, to order them promptly and problems caused by their procrastination will also be an assumed responsibility.

PART 2 - PRODUCTS (NOT USED)

PART 3 - EXECUTION (NOT USED)

END OF SECTION 01100

SECTION 01400 – QUALITY REQUIREMENTS

PART 1 - GENERAL

1.01 RELATED DOCUMENTS

- A. Drawings and general provisions of the Contract, including General Conditions, Contract Documents, Special Provisions, and other Division 1 Specification Sections, apply to this Section.

1.02 SUMMARY

- A. Section includes administrative and procedural requirements for quality assurance and quality control.
- B. Testing and inspecting services are required to verify compliance with requirements specified or indicated. These services do not relieve Contractor of responsibility for compliance with the Contract Document requirements.
 - 1. Specific quality-assurance and -control requirements for individual construction activities are specified in the Sections that specify those activities. Requirements in those Sections may also cover production of standard products.
 - 2. Specified tests, inspections, and related actions do not limit Contractor's other quality-assurance and -control procedures that facilitate compliance with the Contract Document requirements.
 - 3. Requirements for Contractor to provide quality-assurance and -control services required by Engineer, Owner, or authorities having jurisdiction are not limited by provisions of this Section.
- C. Related Sections:
 - 1. Division 0 and Division 2 Sections for specific test and inspection requirements.

1.03 DEFINITIONS

- A. Quality-Assurance Services: Activities, actions, and procedures performed before and during execution of the Work to guard against defects and deficiencies and substantiate that proposed construction will comply with requirements.
- B. Quality-Control Services: Tests, inspections, procedures, and related actions during and after execution of the Work to evaluate that actual products incorporated into the Work and completed construction comply with requirements. Services do not include contract enforcement activities performed by Engineer or Owner.
- C. Preconstruction Testing: Tests and inspections performed specifically for the Project before products and materials are incorporated into the Work to verify performance or compliance with specified criteria.
- D. Product Testing: Tests and inspections that are performed by an NRTL, an NVLAP, or a testing agency qualified to conduct product testing and acceptable to authorities having jurisdiction, to establish product performance and compliance with specified requirements.
- E. Source Quality-Control Testing: Tests and inspections that are performed at the source, i.e., plant, mill, factory, or shop.
- F. Field Quality-Control Testing: Tests and inspections that are performed on-site for installation of the Work and for completed Work.

- G. Testing Agency: An entity engaged to perform specific tests, inspections, or both. Testing laboratory shall mean the same as testing agency.
- H. Installer/Applicator/Erector: Contractor or another entity engaged by Contractor as an employee, Subcontractor, or Sub-subcontractor, to perform a particular construction operation, including installation, erection, application, and similar operations.
 - 1. Use of trade-specific terminology in referring to a trade or entity does not require that certain construction activities be performed by accredited or unionized individuals, or that requirements specified apply exclusively to specific trade or trades.
- I. Experienced: When used with an entity or individual, "experienced" means having successfully completed a minimum of five previous projects similar in nature, size, and extent to this Project; being familiar with special requirements indicated; and having complied with requirements of authorities having jurisdiction.

1.04 CONFLICTING REQUIREMENTS

- A. Referenced Standards: If compliance with two or more standards is specified and the standards establish different or conflicting requirements for minimum quantities or quality levels, comply with the most stringent requirement. Refer conflicting requirements that are different, but apparently equal, to Owner for a decision before proceeding.
- B. Minimum Quantity or Quality Levels: The quantity or quality level shown or specified shall be the minimum provided or performed. The actual installation may comply exactly with the minimum quantity or quality specified, or it may exceed the minimum within reasonable limits. To comply with these requirements, indicated numeric values are minimum or maximum, as appropriate, for the context of requirements. Refer uncertainties to Owner for a decision before proceeding.

1.05 INFORMATIONAL SUBMITTALS

- A. Contractor's Quality-Control Plan: For quality-assurance and quality-control activities and responsibilities.
- B. Contractor's Quality-Control Manager Qualifications: For supervisory personnel.
- C. Testing Agency Qualifications: For testing agencies specified in "Quality Assurance" Article to demonstrate their capabilities and experience. Include proof of qualifications in the form of a recent report on the inspection of the testing agency by a recognized authority.
- D. Schedule of Tests and Inspections: Prepare in tabular form and include the following:
 - 1. Specification Section number and title.
 - 2. Entity responsible for performing tests and inspections.
 - 3. Description of test and inspection.
 - 4. Identification of applicable standards.
 - 5. Identification of test and inspection methods.
 - 6. Number of tests and inspections required.
 - 7. Time schedule or time span for tests and inspections.
 - 8. Requirements for obtaining samples.
 - 9. Unique characteristics of each quality-control service.

1.06 CONTRACTOR'S QUALITY-CONTROL PLAN

- A. Quality-Control Plan, General: Submit quality-control plan within 10 days of Notice to Proceed, and not less than five days prior to preconstruction conference. Submit in format acceptable to Engineer or Owner. Identify personnel, procedures, controls, instructions, tests, records, and forms to be used to carry out Contractor's quality-assurance and quality-control responsibilities. Coordinate with Contractor's construction schedule.
- B. Quality-Control Personnel Qualifications: Engage qualified full-time personnel trained and experienced in managing and executing quality-assurance and quality-control procedures similar in nature and extent to those required for Project.
 - 1. Project quality-control manager may also serve as Project superintendent.
- C. Submittal Procedure: Describe procedures for ensuring compliance with requirements through review and management of submittal process. Indicate qualifications of personnel responsible for submittal review.
- D. Testing and Inspection: Include in quality-control plan a comprehensive schedule of Work requiring testing or inspection, including the following:
 - 1. Contractor-performed tests and inspections including subcontractor-performed tests and inspections. Include required tests and inspections and Contractor-elected tests and inspections.
 - 2. Special inspections required by authorities having jurisdiction and indicated on the "Statement of Special Inspections."
 - 3. Owner-performed tests and inspections indicated in the Contract Documents.
- E. Continuous Inspection of Workmanship: Describe process for continuous inspection during construction to identify and correct deficiencies in workmanship in addition to testing and inspection specified. Indicate types of corrective actions to be required to bring work into compliance with standards of workmanship established by Contract requirements and approved mockups.
- F. Monitoring and Documentation: Maintain testing and inspection reports including log of approved and rejected results. Include work Engineer has indicated as nonconforming or defective. Indicate corrective actions taken to bring nonconforming work into compliance with requirements. Comply with requirements of authorities having jurisdiction.

1.07 REPORTS AND DOCUMENTS

- A. Test and Inspection Reports: Prepare and submit certified written reports specified in other Sections. Include the following:
 - 1. Date of issue.
 - 2. Project title and number.
 - 3. Name, address, and telephone number of testing agency.
 - 4. Dates and locations of samples and tests or inspections.
 - 5. Names of individuals making tests and inspections.
 - 6. Description of the Work and test and inspection method.
 - 7. Identification of product and Specification Section.
 - 8. Complete test or inspection data.

9. Test and inspection results and an interpretation of test results.
 10. Record of temperature and weather conditions at time of sample taking and testing and inspecting.
 11. Comments or professional opinion on whether tested or inspected Work complies with the Contract Document requirements.
 12. Name and signature of laboratory inspector.
 13. Recommendations on retesting and reinspecting.
- B. Manufacturer's Technical Representative's Field Reports: Prepare written information documenting manufacturer's technical representative's tests and inspections specified in other Sections. Include the following:
1. Name, address, and telephone number of technical representative making report.
 2. Statement on condition of substrates and their acceptability for installation of product.
 3. Statement that products at Project site comply with requirements.
 4. Summary of installation procedures being followed, whether they comply with requirements and, if not, what corrective action was taken.
 5. Results of operational and other tests and a statement of whether observed performance complies with requirements.
 6. Statement whether conditions, products, and installation will affect warranty.
 7. Other required items indicated in individual Specification Sections.
- C. Factory-Authorized Service Representative's Reports: Prepare written information documenting manufacturer's factory-authorized service representative's tests and inspections specified in other Sections. Include the following:
1. Name, address, and telephone number of factory-authorized service representative making report.
 2. Statement that equipment complies with requirements.
 3. Results of operational and other tests and a statement of whether observed performance complies with requirements.
 4. Statement whether conditions, products, and installation will affect warranty.
 5. Other required items indicated in individual Specification Sections.
- D. Permits, Licenses, and Certificates: For Owner's records, submit copies of permits, licenses, certifications, inspection reports, releases, jurisdictional settlements, notices, receipts for fee payments, judgments, correspondence, records, and similar documents, established for compliance with standards and regulations bearing on performance of the Work.

1.08 QUALITY ASSURANCE

- A. General: Qualifications paragraphs in this article establish the minimum qualification levels required; individual Specification Sections specify additional requirements.
- B. Manufacturer Qualifications: A firm experienced in manufacturing products or systems similar to those indicated for this Project and with a record of successful in-service performance, as well as sufficient production capacity to produce required units.

- C. Fabricator Qualifications: A firm experienced in producing products similar to those indicated for this Project and with a record of successful in-service performance, as well as sufficient production capacity to produce required units.
- D. Installer Qualifications: A firm or individual experienced in installing, erecting, or assembling work similar in material, design, and extent to that indicated for this Project, whose work has resulted in construction with a record of successful in-service performance.
- E. Professional Engineer Qualifications: A professional engineer who is legally qualified to practice in jurisdiction where Project is located and who is experienced in providing engineering services of the kind indicated. Engineering services are defined as those performed for installations of the system, assembly, or product that are similar to those indicated for this Project in material, design, and extent.
- F. Testing Agency Qualifications: An NRTL, an NVLAP, or an independent agency with the experience and capability to conduct testing and inspecting indicated, as documented according to ASTM E 329; and with additional qualifications specified in individual Sections; and where required by authorities having jurisdiction, that is acceptable to authorities.
 - 1. NRTL: A nationally recognized testing laboratory according to 29 CFR 1910.7.
 - 2. NVLAP: A testing agency accredited according to NIST's National Voluntary Laboratory Accreditation Program.
- G. Manufacturer's Technical Representative Qualifications: An authorized representative of manufacturer who is trained and approved by manufacturer to observe and inspect installation of manufacturer's products that are similar in material, design, and extent to those indicated for this Project.
- H. Factory-Authorized Service Representative Qualifications: An authorized representative of manufacturer who is trained and approved by manufacturer to inspect installation of manufacturer's products that are similar in material, design, and extent to those indicated for this Project.
- I. Preconstruction Testing: Where testing agency is indicated to perform preconstruction testing for compliance with specified requirements for performance and test methods, comply with the following:
 - 1. Contractor responsibilities include the following:
 - a. Provide test specimens representative of proposed products and construction.
 - b. Submit specimens in a timely manner with sufficient time for testing and analyzing results to prevent delaying the Work.
 - c. Provide sizes and configurations of test assemblies, mockups, and laboratory mockups to adequately demonstrate capability of products to comply with performance requirements.
 - d. When testing is complete, remove test specimens; do not reuse products on Project.
 - 2. Testing Agency Responsibilities: Submit a certified written report of each test, inspection, and similar quality-assurance service to Engineer or Owner, with copy to Contractor. Interpret tests and inspections and state in each report whether tested and inspected work complies with or deviates from the Contract Documents.

1.09 QUALITY CONTROL

- A. Contractor Responsibilities: Tests and inspections not explicitly assigned to Owner are Contractor's responsibility. Perform additional quality-control activities required to verify that the Work complies with requirements, whether specified or not. Costs for these services are included in the Contract Sum.

1. Unless otherwise indicated, provide quality-control services specified and those required by authorities having jurisdiction. Perform quality-control services required of Contractor by authorities having jurisdiction, whether specified or not.
 2. Where services are indicated as Contractor's responsibility, engage a qualified testing agency approved by the Owner to perform these quality-control services.
 3. Notify testing agencies at least 24 hours in advance of time when Work that requires testing or inspecting will be performed.
 4. Where quality-control services are indicated as Contractor's responsibility, submit a certified written report, in duplicate, of each quality-control service.
 5. Testing and inspecting requested by Contractor and not required by the Contract Documents are Contractor's responsibility.
 6. Submit additional copies of each written report directly to authorities having jurisdiction, when they so direct.
- B. Manufacturer's Field Services: Where indicated, engage a factory-authorized service representative to inspect field-assembled components and equipment installation, including service connections. Report results in writing.
- C. Manufacturer's Technical Services: Where indicated, engage a manufacturer's technical representative to observe and inspect the Work. Manufacturer's technical representative's services include participation in preinstallation conferences, examination of substrates and conditions, verification of materials, observation of Installer activities, inspection of completed portions of the Work, and submittal of written reports.
- D. Retesting/Reinspecting: Regardless of whether original tests or inspections were Contractor's responsibility, provide quality-control services, including retesting and reinspecting, for construction that replaced Work that failed to comply with the Contract Documents.
1. The cost of retesting construction, revised or replaced by the Contractor, is Contractor's responsibility, where required tests performed on original construction indicated noncompliance with Contract Document requirements.
- E. Testing Agency Responsibilities: Cooperate with Engineer or Owner and Contractor in performance of duties. Provide qualified personnel to perform required tests and inspections.
1. Notify Engineer or Owner and Contractor promptly of irregularities or deficiencies observed in the Work during performance of its services.
 2. Determine the location from which test samples will be taken and in which in-situ tests are conducted.
 3. Conduct and interpret tests and inspections and state in each report whether tested and inspected work complies with or deviates from requirements.
 4. Submit a certified written report, in duplicate, of each test, inspection, and similar quality-control service through Contractor.
 5. Do not release, revoke, alter, or increase the Contract Document requirements or approve or accept any portion of the Work.
 6. Do not perform any duties of Contractor.
- F. Associated Services: Cooperate with agencies performing required tests, inspections, and similar quality-control services, and provide reasonable auxiliary services as requested. Notify agency sufficiently in advance of operations to permit assignment of personnel. Provide the following:

1. Access to the Work.
 2. Incidental labor and facilities necessary to facilitate tests and inspections.
 3. Adequate quantities of representative samples of materials that require testing and inspecting. Assist agency in obtaining samples.
 4. Facilities for storage and field curing of test samples.
 5. Delivery of samples to testing agencies.
 6. Preliminary design mix proposed for use for material mixes that require control by testing agency.
 7. Security and protection for samples and for testing and inspecting equipment at Project site.
- G. Coordination: Coordinate sequence of activities to accommodate required quality-assurance and -control services with a minimum of delay and to avoid necessity of removing and replacing construction to accommodate testing and inspecting.
1. Schedule times for tests, inspections, obtaining samples, and similar activities.
- H. Schedule of Tests and Inspections: Prepare a schedule of tests, inspections, and similar quality-control services required by the Contract Documents as a component of the Contractor's quality-control plan. Coordinate and submit concurrently with Contractor's construction schedule. Update as the Work progresses.
1. Distribution: Distribute schedule to Owner, Engineer, testing agencies, and each party involved in performance of portions of the Work where tests and inspections are required.

1.10 SPECIAL TESTS AND INSPECTIONS

- A. Special Tests and Inspections: Conducted by a qualified approved testing agency as required by authorities having jurisdiction, as indicated in individual Specification Sections, and as follows:
1. Verifying that manufacturer maintains detailed fabrication and quality-control procedures and reviewing the completeness and adequacy of those procedures to perform the Work.
 2. Notifying Engineer or Owner and Contractor promptly of irregularities and deficiencies observed in the Work during performance of its services.
 3. Submitting a certified written report of each test, inspection, and similar quality-control service to Engineer or Owner with copy to Contractor and to authorities having jurisdiction.
 4. Submitting a final report of special tests and inspections at Substantial Completion, which includes a list of unresolved deficiencies.
 5. Interpreting tests and inspections and stating in each report whether tested and inspected work complies with or deviates from the Contract Documents.
 6. Retesting and reinspecting corrected work.

PART 2 - PRODUCTS (NOT USED)

PART 3 - EXECUTION

3.01 ACCEPTABLE TESTING AGENCIES

- A. Obtain approved list of testing agencies from the Engineer.

3.02 TEST AND INSPECTION LOG

- A. Prepare a record of tests and inspections. Include the following:
 - 1. Date test or inspection was conducted.
 - 2. Description of the Work tested or inspected.
 - 3. Date test or inspection results were transmitted to Engineer.
 - 4. Identification of testing agency or special inspector conducting test or inspection.
- B. Maintain log at Project site. Post changes and modifications as they occur. Provide access to test and inspection log for Engineer's and Owner's reference during normal working hours.

3.03 REPAIR AND PROTECTION

- A. General: On completion of testing, inspecting, sample taking, and similar services, repair damaged construction and restore substrates and finishes.
 - 1. Provide materials and comply with installation requirements specified in other Specification Sections or matching existing substrates and finishes. Restore patched areas and extend restoration into adjoining areas with durable seams that are as invisible as possible.
- B. Protect construction exposed by or for quality-control service activities.
- C. Repair and protection are Contractor's responsibility, regardless of the assignment of responsibility for quality-control services.

END OF SECTION 01400

SECTION 01500 – TEMPORARY FACILITIES AND CONTROLS

PART 1 - GENERAL

1.01 RELATED DOCUMENTS

- A. Drawings and general provisions of the Contract, including General Conditions, Contract Documents, Special Provisions, apply to this Section.

1.02 SUMMARY

- A. Section includes requirements for temporary utilities, support facilities, and security and protection facilities.
- B. Related Sections:
 - 1. Division 0 Sections.

1.03 USE CHARGES

- A. General: Installation and removal of and use charges for temporary facilities shall be included in the Contract Sum unless otherwise indicated. Allow other entities to use temporary services and facilities without cost, including, but not limited to, Owner, Engineer, testing agencies, and authorities having jurisdiction.

1.04 INFORMATIONAL SUBMITTALS

- A. Site Plan: Show temporary facilities, utility hookups, staging areas, and parking areas for construction personnel.
- B. Erosion- and Sedimentation-Control Plan: Show compliance with requirements of EPA Construction General Permit or authorities having jurisdiction, whichever is more stringent.
- C. Moisture-Protection Plan: Describe procedures and controls for protecting materials and construction from water absorption and damage, including delivery, handling, and storage provisions for materials subject to water absorption or water damage, discarding water-damaged materials, protocols for mitigating water intrusion into completed Work, and replacing water damaged Work.
- D. DEQ – Notice of Intent (NOI) Documentation: The Contractor shall fill out, complete, and submit the necessary documentation for the DEQ NOI.

1.05 QUALITY ASSURANCE

- A. Regulations: Comply with industry standards and applicable laws and regulations of authorities having jurisdiction including, but not limited to, the following:
 - 1. Building Code Requirements.
 - 2. Health and safety regulations.
 - 3. Utility company regulations.
 - 4. Police, fire department, and rescue squad rules.
 - 5. Environmental protection regulations.

- B. Electric Service: Comply with NECA, NEMA, and UL standards and regulations for temporary electric service. Install service to comply with NFPA 70.
- C. Tests and Inspections: Arrange for authorities having jurisdiction to test and inspect each temporary utility before use. Obtain required certifications and permits.

1.06 PROJECT CONDITIONS

- A. Temporary Utilities: Prepare a schedule indicating dates for implementation and termination of each temporary utility.
- B. Conditions of Use: Keep temporary services and facilities clean and neat in appearance. Operate in a safe and efficient manner. Relocate temporary services and facilities as the Work progresses if needed. Do not overload, or permit them to interfere with progress. Take necessary fire prevention measures. Do not allow hazardous, dangerous, unsanitary conditions, or public nuisances to develop.

PART 2 - PRODUCTS

2.01 MATERIALS

- A. Chain-Link Fencing: Minimum 2-inch (50-mm), 0.148-inch- (3.8-mm-) thick, galvanized steel, chain-link fabric fencing; minimum 6 feet (1.8 m) high with galvanized steel pipe posts; minimum 2-3/8-inch- (60-mm-) OD line posts and 2-7/8-inch- (73-mm-) OD corner and pull posts, with 1-5/8-inch- (42-mm-) OD top rails.
- B. Portable Chain-Link Fencing: Minimum 2-inch (50-mm), 0.148-inch- (3.8-mm-) thick, galvanized steel, chain-link fabric fencing; minimum 6 feet (1.8 m) high with galvanized steel pipe posts; minimum 2-3/8-inch- (60-mm-) OD line posts and 2-7/8-inch- (73-mm-) OD corner and pull posts, with 1-5/8-inch- (42-mm-) OD top and bottom rails. Provide concrete bases for supporting posts.

2.02 TEMPORARY FACILITIES

- A. Field Offices, General: Prefabricated or mobile units with serviceable finishes, temperature controls, and foundations adequate for normal loading.
- B. Temporary Toilet Units: Provide and maintain self-contained, single-occupant toilet units of the chemical, aerated recirculation, or combustion type for the duration of the Work. Provide units properly vented and fully enclosed with a glass fiber reinforced polyester shell or similar nonabsorbent material. The Contractor shall be responsible for monitoring all personnel including subcontractors and installers to prevent usage of Owner sanitary facilities, furnishings, and equipment. Contractor supplied sanitary facilities and surrounding area shall be maintained in a sanitary condition at all times.
- C. Storage and Fabrication Sheds: Provide and maintain sheds sized, furnished, and equipped to accommodate materials and equipment for construction operations in a secure and safe area. In any case, all items remain the responsibility of the Contractor and shall be stored in such a manner to comply with all pertinent safety and other regulations and codes.

- 1. Store combustible materials apart from building.

2.03 EQUIPMENT

- A. Fire Extinguishers: Portable, UL rated; with class and extinguishing agent as required by locations and classes of fire exposures.

PART 3 - EXECUTION

3.01 INSTALLATION, GENERAL

- A. Locate facilities where they will serve Project adequately and result in minimum interference with performance of the Work. Relocate and modify facilities as required by progress of the Work.
- B. Provide each facility ready for use when needed to avoid delay. Do not remove until facilities are no longer needed or are replaced by authorized use of completed permanent facilities.

3.02 TEMPORARY UTILITY INSTALLATION

- A. General: Install temporary service or connect to existing service.
 - 1. Arrange with utility company, Owner, and existing users for time when service can be interrupted, if necessary, to make connections for temporary services.
 - 2. Provide adequate capacity for construction.
- B. Sanitary Facilities: Provide temporary toilets, wash facilities, and drinking water for use of construction personnel. Comply with requirements of authorities having jurisdiction for type, number, location, operation, and maintenance of fixtures and facilities.
- C. Ventilation and Humidity Control: Provide temporary ventilation required by construction activities for curing or drying of completed installations or for protecting installed construction from adverse effects of high humidity. Select equipment that will not have a harmful effect on completed installations or elements being installed. Coordinate ventilation requirements to produce ambient condition required and minimize energy consumption.
 - 1. Provide dehumidification systems when required to reduce substrate moisture levels to level required to allow installation or application of finishes.
- D. Electric Power Service: Connect to Owner's existing electric power service. Maintain equipment in a condition acceptable to Owner.
- E. Lighting: Provide temporary lighting with local switching that provides adequate illumination for construction operations, observations, inspections, and traffic conditions.
 - 1. Install and operate temporary lighting that fulfills security and protection requirements without operating entire system.
- F. Telephone Service: Provide temporary telephone service in common-use facilities for use by all construction personnel. Install one telephone line(s) for each field office.
 - 1. Provide superintendent with cellular telephone for use when away from field office.

3.03 SUPPORT FACILITIES INSTALLATION

- A. General: Comply with the following:
 - 1. Provide construction for temporary offices, shops, and sheds located within construction area or within 30 feet (9 m) of building lines that is noncombustible according to ASTM E 136. Comply with NFPA 241.
 - 2. Maintain support facilities until Engineer schedules Substantial Completion inspection. Remove before Substantial Completion. Personnel remaining after Substantial Completion will be permitted to use permanent facilities, under conditions acceptable to Owner.

- B. Temporary Use of Permanent Roads and Paved Areas: Locate temporary roads and paved areas in same location as permanent roads and paved areas. Construct and maintain temporary roads and paved areas adequate for construction operations. Extend temporary roads and paved areas, within construction limits indicated, as necessary for construction operations.
 - 1. Coordinate elevations of temporary roads and paved areas with permanent roads and paved areas.
 - 2. Prepare subgrade and install subbase and base for temporary roads and paved areas according to Division 2 Section "Excavation and Embankment."
 - 3. Recondition base after temporary use, including removing contaminated material, regrading, proofrolling, compacting, and testing.
- C. Traffic Controls: Comply with requirements of authorities having jurisdiction.
 - 1. Protect existing site improvements to remain including curbs, pavement, and utilities.
 - 2. Maintain access for fire-fighting equipment and access to fire hydrants.
- D. Parking: Use parking areas as designated by Owner for construction personnel.
- E. Dewatering Facilities and Drains: Comply with requirements of authorities having jurisdiction. Maintain Project site, excavations, and construction free of water.
 - 1. Dispose of rainwater in a lawful manner that will not result in flooding Project or adjoining properties nor endanger permanent Work or temporary facilities.
- F. Project Signs: Provide Project signs as indicated. Unauthorized signs are not permitted.
 - 1. Identification Signs: Provide Project identification signs as indicated on Drawings.
 - 2. Temporary Signs: Provide other signs as indicated and as required to inform the public and individuals seeking entrance to Project.
 - a. Provide temporary, directional signs for construction personnel and visitors.
 - 3. Maintain and touchup signs so they are legible at all times.
- G. Waste Disposal Facilities: Provide waste-collection containers in sizes adequate to handle waste from construction operations. Comply with requirements of authorities having jurisdiction. Comply with Division 1 Section "Execution Requirements" for progress cleaning requirements.
- H. Lifts and Hoists: Provide facilities necessary for hoisting materials and personnel.
 - 1. Truck cranes and similar devices used for hoisting materials are considered "tools and equipment" and not temporary facilities.

3.04 SECURITY AND PROTECTION FACILITIES INSTALLATION

- A. Environmental Protection: Provide protection, operate temporary facilities, and conduct construction as required to comply with environmental regulations and that minimize possible air, waterway, and subsoil contamination or pollution or other undesirable effects.
 - 1. Comply with work restrictions specified in Division 0 and Division 1 Section "Summary of Work."
- B. Temporary Erosion and Sedimentation Control: Provide measures to prevent soil erosion and discharge of soil-bearing water runoff and airborne dust to undisturbed areas and to adjacent properties and walkways, according to authorities having jurisdiction.

1. Verify that flows of water redirected from construction areas or generated by construction activity do not enter or cross tree- or plant- protection zones.
 2. Inspect, repair, and maintain erosion- and sedimentation-control measures during construction until permanent vegetation has been established.
 3. Clean, repair, and restore adjoining properties and roads affected by erosion and sedimentation from the project site during the course of the project.
 4. Remove erosion and sedimentation controls and restore and stabilize areas disturbed during removal.
- C. Stormwater Control: Comply with requirements of authorities having jurisdiction. Provide barriers in and around excavations and subgrade construction to prevent flooding by runoff of stormwater from heavy rains.
- D. Tree and Plant Protection: Install temporary fencing located as indicated or outside the drip line of trees to protect vegetation from damage from construction operations. Protect tree root systems from damage, flooding, and erosion.
- E. .
- F.
- G. Install temporary orange construction fencing between construction areas for length of the project.
- H. Barricades, Warning Signs, Pavement Markings, and Lights: Comply with requirements of authorities having jurisdiction for erecting structurally adequate barricades, including warning signs, temporary pavement markings, and lighting.
- I. Temporary Fire Protection: Install and maintain temporary fire-protection facilities of types needed to protect against reasonably predictable and controllable fire losses. Comply with NFPA 241.
1. Prohibit smoking in construction areas.
 2. Supervise welding operations, combustion-type temporary heating units, and similar sources of fire ignition according to requirements of authorities having jurisdiction.
 3. Develop and supervise an overall fire-prevention and -protection program for personnel at Project site. Review needs with local fire department and establish procedures to be followed. Instruct personnel in methods and procedures. Post warnings and information.
 4. Provide temporary standpipes and hoses for fire protection. Hang hoses with a warning sign stating that hoses are for fire-protection purposes only and are not to be removed. Match hose size with outlet size and equip with suitable nozzles.

3.05 OPERATION, TERMINATION, AND REMOVAL

- A. Supervision: Enforce strict discipline in use of temporary facilities. To minimize waste and abuse, limit availability of temporary facilities to essential and intended uses.
- B. Maintenance: Maintain facilities in good operating condition until removal. Keep clean, neat, orderly, and comply with all safety regulatory codes, ordinances, and laws. All property and facilities adjacent to the work area and/or in the work area but not in the contract shall be disturbed as little as possible.
1. Maintain operation of temporary enclosures, heating, cooling, humidity control, ventilation, and similar facilities on a 24-hour basis where required to achieve indicated results and to avoid possibility of damage.

- C. Temporary Facility Changeover: Do not change over from using temporary security and protection facilities to permanent facilities until Substantial Completion.
- D. Termination and Removal: Remove each temporary facility when need for its service has ended, when it has been replaced by authorized use of a permanent facility, or no later than Substantial Completion. Complete or, if necessary, restore permanent construction that may have been delayed because of interference with temporary facility. Repair damaged Work, clean exposed surfaces, and replace construction that cannot be satisfactorily repaired.
1. Materials and facilities that constitute temporary facilities are property of Contractor. Owner reserves right to take possession of Project identification signs.
 2. Remove temporary roads, paved areas, and temporary culverts not intended for or acceptable for integration into permanent construction. Where area is intended for landscape development, remove soil and aggregate fill that do not comply with requirements for fill or subsoil. Remove materials contaminated with road oil, asphalt and other petrochemical compounds, and other substances that might impair growth of plant materials or lawns. Repair or replace street paving, curbs, and sidewalks at temporary entrances, as required by authorities having jurisdiction.
 3. At Substantial Completion, repair, renovate, and clean permanent facilities used during construction period. Comply with final cleaning requirements specified in Division 1 Section "Closeout Procedures."

END OF SECTION 01500

SECTION 201 – CLEARING & GRUBBING

201.01 DESCRIPTION OF WORK

The work covered by this section of Specifications shall be in accordance to Section 201 of the Louisiana Standard Specifications for Roads and Bridges, 2016 Edition and latest revisions, or as amended herein and includes, but is not necessarily limited to, the following:

1. Protecting existing vegetation to remain.
2. Removing trees and other vegetation.
3. Clearing and grubbing.
4. Survey staking property corners, staking boundaries at not greater than 100 foot intervals, and provide benchmarks as needed for construction purposes.

201.02 GENERAL

The Owner will designate trees, shrubs, plants, and other items to remain, and the Contractor shall preserve these items. Except for materials indicated to be stockpiled or to remain Owner's property, cleared materials shall become Contractor's property and shall be legally removed from the site at the expense of the Contractor.

201.03 MATERIALS

The Contractor shall provide all materials, labor, and equipment necessary to complete required work. Performance shall meet the requirements of the specifications.

201.04 MEASUREMENT AND PAYMENT

Measurement and payment shall be made under:

<u>Item #</u>	<u>Pay Item</u>	<u>Pay Unit</u>
201-01	Clearing & Grubbing	Lump Sum

END OF SECTION 201

SECTION 202 – REMOVAL & RELOCATION OF STRUCTURES & OBSTRUCTIONS

202.01 DESCRIPTION OF WORK

The work covered by this section of Specifications shall be in accordance to Section 202 of the Louisiana Standard Specifications for Roads and Bridges, 2016 Edition and latest revisions, or as amended herein and includes, but is not necessarily limited to, the following:

1. Removing above-grade and below-grade site improvements, including roadway and other structures and obstructions not designated or permitted to remain. The removal of pavement includes all saw-cutting performed.

202.02 GENERAL

The Contractor shall remove and dispose of all portions of structures or obstructions on the right-of-way, except utilities and those items for which other provisions have been made for removal or relocation.

Pavements, stabilized or treated base courses, culverts, etc., designated for removal, shall be disposed of in accordance with these specifications and as directed. Unless otherwise noted, base materials under pavements shall be removed with the pavement at no additional pay. Sawcutting of pavement shall be done at no additional pay.

Burial of debris is not permitted. Burning of debris shall be permitted with approval of the Owner and Fire Chief. The Owner and Fire Chief shall be contacted with regards to rules and regulations of burning.

202.03 MATERIALS

The Contractor shall provide all materials, labor, and equipment necessary to complete required work. Performance shall meet the requirements of the specifications.

202.04 MEASUREMENT AND PAYMENT

Removing structures and obstructions shall include appurtenances, foundations, etc. and all required removal of structures and obstructions.

Payment for removal of structures will include demolishing, removing, and disposing of such items and the excavation and backfill incidental to their removal when required. When the removal is in an area to be excavated and payment for excavation is made under other items, no deduction will be made from the excavation quantities.

Measurement and payment shall be made under:

<u>Item #</u>	<u>Pay Item</u>	<u>Pay Unit</u>
202-01	Removal of Structures and Obstructions	Lump Sum

END OF SECTION 202

SECTION 203 – EXCAVATION AND EMBANKMENT

203.01 DESCRIPTION OF WORK

The work covered by this section of Specifications shall be in accordance to Section 203 of the Louisiana Standard Specifications for Roads and Bridges, 2016 Edition and latest revisions, or as amended herein and includes, but is not necessarily limited to, the following:

1. Excavation, disposal, placement, and compaction of materials for which provisions have not been made under other sections of these specifications. The work shall include excavation and embankment construction for roadways and other structures, excavation for ditches and channels, and other grading operations necessary for the work in accordance with these specifications and in conformity with the lines, grades, thicknesses, and typical sections shown on the plans. Disposal of material shall be in accordance with Subsection 202.02 of the Louisiana Standard Specifications for Roads and Bridges, 2016 Edition and its latest revisions.

203.02 GENERAL

Excavation and embankment construction consists of constructing roadways embankments, including preparation of areas on which they are to be placed; constructing drainage excavation; backslope construction; constructing dikes, when required; placing and compacting approved material in areas where unusable material has been removed; placing and compacting embankment material in holes, pits, and other depressions; and placing and compacting embankment materials for backfilling structures. Prior to beginning excavation, grading, or embankment operations in an area, all necessary clearing and grubbing in that area shall have been completed.

General excavation consists of the excavation of materials within the right-of-way and easements, as required by the plans, including drainage excavation.

General excavation and drainage excavation shall be applied in conformance with Subsection 203.07 of the Louisiana Standard Specifications for Roads and Bridges, 2016 Edition and its latest revisions.

The Contractor shall carry out the excavation to line, grade, and cross-slope as shown on the plans. Final subgrade shall be compacted to 95% maximum density in accordance with ASTM D698. Excavation to final subgrade shall be carefully carried out so as not to damage any existing utilities to remain. Contractor shall be responsible for repairing or replacing any portion of existing utilities broken through over-excavation or careless operations at his own costs. All repairs and replacements shall be performed in accordance with City of Slidell requirements.

Selected soils as determined by the Owner's representative shall be stockpiled at the jobsite, transported, placed, and compacted as directed by the Engineer and/or the plans. All contaminated excavation shall be disposed of offsite by the Contractor at no direct pay for this work.

Embankment material shall be placed in uniform layers not exceeding 12 inches of uncompacted thickness. Each layer shall be placed for the full width of embankment, blended as necessary to obtain a uniform material, brought to a uniform moisture content, and compacted by approved methods to a minimum of 95.0 percent of maximum dry density before the next layer is placed.

When obliteration of old roadways is required, it shall include grading operation necessary to satisfactorily incorporate the old roadway into the new roadway and surroundings in order to provide a pleasing appearance and to allow drainage.

The Contractor shall be responsible for the stability of embankments until final acceptance.

203.03 MATERIALS

Embankment material shall be non-plastic granular material conforming to the requirements of Subsection 203.09 of the Louisiana Standard Specifications for Roads and Bridges, 2016 Edition and its latest revisions.

A plastic soil blanket shall be required for ditches as shown on the plan details and as directed by the Engineer. The plastic soil blanket shall conform to Subsections 203.06 and 203.10 of the Louisiana Standard Specifications for Roads and Bridges, 2016 Edition and its latest revisions.

Geotextile fabric shall conform to the requirements of Subsection 203.11 of the Louisiana Standard Specifications for Roads and Bridges, 2016 Edition and its latest revisions. Prior to accepting any geotextile fabric for the project, the manufacturer is required to furnish a letter of certification, along with a representative sample of the product, attesting that the fabric meets the requirements herein specified. The submittal must be in accordance with the submittal procedure as outlined in the general specifications. Installation of the geotextile fabric must be in strict accordance with the manufacturer's instructions and requirements. All overlaps shall be a minimum of 2 feet.

Unsuitable soils classified by Subsection 203.04 of the Louisiana Standard Specifications for Roads and Bridges, 2016 Edition and its latest revisions and determined to be environmentally sensitive shall be removed and disposed of in accordance with Subsection 202.05 of the Louisiana Standard Specifications for Roads and Bridges, 2016 Edition and its latest revisions.

The Contractor shall be responsible for the stability of embankments until final acceptance.

The Contractor shall provide all materials, labor, and equipment necessary to complete required work. Performance shall meet the requirements of the specifications.

203.04 MEASUREMENT AND PAYMENT

Measurement and payment of general and drainage excavation shall be by cubic yard.

Measurement and payment for the accepted quantities will be made at the contract unit prices, which include furnishing the equipment, labor and materials necessary to complete the items.

There will be no separate payment for placing suitable material on the project site and disposing of unsuitable material including temporarily storing and draining the excavated material, hauling the excavated material in water tight trucks to the disposal site, and other operations which are incidental to completing the Excavation and Embankment.

Unless otherwise specified, borrow material will be considered incidental to the embankment and will not be measured separately, but will be measured as embankment. Embankment will be measured by the cubic yard in approved hauling vehicles at the point of delivery in accordance with Subsection 109.01 of the Louisiana Standard Specifications for Roads and Bridges, 2016 Edition and its latest revisions.

Geotextile fabric will not be measured for payment. Payment for geotextile fabric will be included in the contract unit price for drainage pipe, in accordance with Section 701 of the Louisiana Standard Specifications for Roads and Bridges, 2016 Edition and its latest revisions.

Measurement and payment shall be made in accordance with Section 203 of the Louisiana Standard Specifications for Roads and Bridges, 2016 Edition and its latest revisions and under:

<u>Item #</u>	<u>Pay Item</u>	<u>Pay Unit</u>	
203-01		General Excavation	Cubic Yard
203-03		Embankment	Cubic Yard

END OF SECTION 203

SECTION 204 – TEMPORARY EROSION CONTROL

204.01 DESCRIPTION OF WORK

The work covered by this section of Specifications shall be in accordance to Section 204 of the Louisiana Standard Specifications for Roads and Bridges, 2016 Edition and latest revisions, or as amended herein and includes, but is not necessarily limited to, the following:

1. Temporary erosion control and sedimentation control measures to prevent soil erosion and discharge of soil-bearing water runoff or airborne dust to adjacent properties and walkways, according to erosion and sedimentation control drawings and requirements of authorities having jurisdiction.
2. Inspect, maintain, and repair erosion and sedimentation control measures during construction until permanent vegetation has been established.

204.02 GENERAL

The Contractor shall follow and comply with all Federal, State, Parish, and Local regulations regarding temporary erosion control practices.

The Contractor shall fill out, complete, and submit the necessary documentation for the DEQ Notice of Intent

204.03 MATERIALS

The Contractor shall provide all materials, labor, and equipment necessary to complete required work. Performance shall meet the requirements of the specifications.

204.04 MEASUREMENT AND PAYMENT

Measurement and payment shall be made under:

<u>Item #</u>	<u>Pay Item</u>	<u>Pay Unit</u>
204-01	Temporary Erosion Control	Lump Sum

END OF SECTION 204

SECTION 302 – CLASS II BASE COURSE

302.01 DESCRIPTION OF WORK

The work covered by this section of Specifications shall be in accordance to Section 302 of the Louisiana Standard Specifications for Roads and Bridges, 2016 Edition and latest revisions, or as amended herein and includes, but is not necessarily limited to, the following:

1. Furnishing and placing Class II roadway and shoulder base course on a prepared surface in accordance with these specifications, in conformity with the lines, grades, thickness, and typical sections shown on the plans or established. Unless approved in writing, the same base course material shall be used throughout the project.

302.02 GENERAL

Base course material shall be placed on a subgrade prepared in accordance with Sections 203, 304, 305, or 306 as specified. If an aggregate base course is to be placed on untreated or lime-treated soils, a Class D geotextile separator fabric will be required.

Transportation and spreading methods shall not damage the subgrade. The Contractor shall place and spread sufficient base course material to obtain required with and compacted thickness within the tolerances set forth in Subsection 302.12 of the Louisiana Standard Specifications for Roads and Bridges, 2016 Edition and latest revisions. Subgrade material shall not contaminate the base course. Base course construction operations shall not damage adjacent pavement surfaces, edges, and joints.

The finished base course shall have a smooth, uniform, closely knit surface, free from ridges, waves, laminations or loose material. The surface shall be thoroughly rolled and finished to grade.

The Contractor shall control the selection, placement, compaction, cement spread, mixing, moisture content, density, thickness, width surface finish, cross-slope, and grade to produce a completed base course that is uniform and conforms to plan dimensions and other acceptance requirements as provided herein. The Contractor shall control his operations to prevent contamination, segregation, soft spots, wet spots, laminations, and other deficiencies. The Contractor shall be responsible for taking test necessary to adequately control the work.

The Contractor shall protect the base course from damage from public traffic or the Contractor's operations, and shall satisfactorily maintain the base course. Damaged base course shall be repaired by the Contractor at no direct pay.

302.03 MATERIALS

The Contractor shall provide all materials, labor, and equipment necessary to complete required work. Performance shall meet the requirements of the specifications. Stone, crushed slag, and recycled Portland cement concrete base courses shall not segregate during construction. Water added to facilitate compaction shall not cause moisture damage to the subgrade layer.

302.04 MEASUREMENT AND PAYMENT

The quantities of base course for payment will be the design volumes or areas specified in the plans and adjustments thereto. Design quantities are based on the horizontal dimensions and compacted thickness of the completed base course shown on the plans. Design quantities will be adjusted if the engineer makes changes to adjust to field conditions, if plan errors are proven, or if design changes are necessary.

Geotextile fabric used beneath the base course will not be measured for payment.

Payment for base course will be made at the contract unit price, adjusted as specified in Subsection 302.12 of the Louisiana Standard Specifications for Roads and Bridges, 2016 Edition and latest revisions and the following provisions, which includes furnishing and placing required base course materials, etc.

Payment for geotextile fabric will be included in the contract unit price for base course.

Measurement and payment shall be made under:

<u>Item #</u>	<u>Pay Item</u>	<u>Pay Unit</u>
302-01	Class II Base Course (610 Limestone - 6" thick)	Cubic Yard

END OF SECTION 302

SECTION 401 – AGGREGATE SURFACE COURSE

401.01 DESCRIPTION OF WORK

The work covered by this section of Specifications shall be in accordance to Section 401 of the Louisiana Standard Specifications for Roads and Bridges, 2016 Edition and latest revisions, or as amended herein and includes, but is not necessarily limited to, the following:

1. Furnishing and constructing aggregate base courses for shoulders, drives, and other facilities in accordance with these specifications, and in conformity with lines, grades, thicknesses, and typical sections shown on the plans.

401.02 GENERAL

Aggregate surface course materials shall be a uniform blend, sampled in dedicated stockpiles and approved prior to placement. Unless otherwise approved in writing, the same type material shall be used throughout the project.

Shoulder construction shall be in accordance with Subsection 401.04 of the Louisiana Standard Specifications for Roads and Bridges, 2016 Edition and its latest revisions.

401.03 MATERIALS

Aggregate surface course materials shall be stone, sand-clay-gravel mixture, recycled portland cement concrete, or reclaimed asphaltic pavement satisfactory to the Engineer and conforming to Subsection 401.02 of the Louisiana Standard Specifications for Roads and Bridges, 2016 Edition and its latest revisions.

The Contractor shall provide all materials, labor, and equipment necessary to complete required work. Performance shall meet the requirements of the specifications.

401.04 MEASUREMENT AND PAYMENT

Aggregate surface course will be measured by the cubic yard in approved hauling vehicles at the point of delivery in accordance with Subsection 109.01 of the Louisiana Standard Specifications for Roads and Bridges, 2016 Edition and its latest revisions.

Payment for aggregate surface course will be made at the contract unit price per cubic yard, which includes furnishing, placing, and compacting required aggregate materials, water, and lime; tools, equipment, labor, and incidentals necessary to complete the work.

Measurement and payment will be made under:

<u>Item #</u>	<u>Pay Item</u>	<u>Pay Unit</u>
401-02	Aggregate Surface Course (Adjusted Vehicle Measurement)	Cubic Yard

END OF SECTION 401

SECTION 501 – ASPHALTIC CONCRETE MIXTURES

501.01 DESCRIPTION OF WORK

The work covered by this section of Specifications shall be in accordance to Section 501 of the Louisiana Standard Specifications for Roads and Bridges, 2016 Edition and latest revisions, to the American Society of Testing Materials (ASTM), to the American Association of State Highway and Transportation Officials “Standard Specifications for Transportation, Materials, and Methods of Sampling and Testing,” or as amended herein and includes, but is not necessarily limited to, the following:

1. Furnishing and constructing courses of asphaltic concrete mixture, including asphaltic wearing, binder, and base course mixtures of the plant mix type, applied hot in conformance with these specifications and in conformity with the lines, grades, thicknesses, and typical sections shown on the plans. The mixture shall consist of aggregates and asphalt with additives combined in proportions which meet the requirements of this section. Equipment and processes shall conform to Section 503 of the Louisiana Standard Specifications for Roads and Bridges, 2016 Edition and latest revisions.

Those parts of the referenced specifications which are applicable hereto shall be considered as if written herein in full.

501.02 GENERAL

The Contractor and the Owner shall cooperate in notifying affected residents and businesses of this project. The Contractor shall maintain access to businesses and residents at all time during construction. The Contractor shall maintain traffic through the project at all times. Construction shall be scheduled to minimize interference with traffic flow. The Contractor shall be responsible for providing suitable warning signs, rolling barricades, flaggers, etc. in order to insure maximum safety for his workers and the public within the construction area. In unusual situations, where traffic and physical conditions dictate, the Contractor shall install special signs, uneven pavement markers or other special treatment within the construction areas when directed by the Engineer.

All intersecting roads and streets are to be constructed a minimum of 20’ from the edge of roadway being constructed, in accordance with the typical details. A minimum turning radius of 35’ (where existing conditions allow) shall be provided at intersecting roads unless otherwise specified by the Engineer. Driveway aprons shall extend, as shown on the plans, behind the back side of the culvert, if existing, whether installed under this contract or not, and shall cover all fill material added for installation of new culverts. All earthen or gravel driveways shall have an asphalt apron installed to the property line. Aprons shall be placed at the same time as the surface course is placed and shall be sufficient to transition existing driveways to the edge of the road being constructed.

All required grass stripping; vegetation sterilization; pulling of roadway shoulders; pavement base restoration; and other maintenance work shall be done by the Contractor of this project.

Weather limitations for the application of asphaltic concrete mixtures shall be in accordance with Subsection 501.04 of the Louisiana Standard Specifications for Roads and Bridges, 2016 Edition and its latest revisions.

The surface to be covered shall be approved prior to placing mixtures. The Contractor shall maintain the surface until it is covered.

Before constructing each course, an approved asphalt tack coat shall be applied in accordance with Subsection 501.05 of the Louisiana Standard Specifications for Roads and Bridges, 2016 Edition and its latest revisions.

After placement, mixtures shall be uniformly compacted, by rolling while still hot, to at least the density specified in Subsection 501.08 of the Louisiana Standard Specifications for Roads and Bridges, 2016 Edition and its latest revisions.

All inspection procedures, including sampling and testing, form the basis of acceptance of asphaltic concrete. Any section of pavement that is obviously deficient shall be satisfactorily corrected and replaced.

501.03 MATERIALS

The Contractor shall provide all materials, labor, and equipment necessary to complete required work. Performance shall meet the requirements of the specifications. The Contractor shall be responsible for design, production, transportation, and laydown of mixtures.

All equipment, asphalt, plant, paver, rollers, trucks, etc. used on this project shall be certified in accordance with Section 503 of the Louisiana Standard Specifications for Roads and Bridges, 2016 Edition and its latest revisions.

The Contractor shall keep accurate records, including proof of deliveries of materials for use in asphaltic concrete mixtures. Copies of these records shall be furnished to the Engineer upon request.

All materials must be sampled and shall comply in accordance with Subsection 501.02 of the Louisiana Standard Specifications for Roads and Bridges, 2016 Edition and its latest revisions.

The mixture shall consist of aggregates and asphalt with additives, combined in such proportions, to meet the requirements in Table 501-3 of the Louisiana Standard Specifications for Roads and Bridges, 2016 Edition and its latest revisions as reproduced herein.

Reclaimed asphaltic pavement (RAP) will not be allowed in final wearing courses on roadway travel lanes.

501.04 MEASUREMENT AND PAYMENT

Asphalt tack coat, prime coat, or curing membrane will not be measured for payment.

The quantities for payment will be the design quantities specified in the plans and adjustments thereto. Design quantities will be adjusted when the Engineer makes changes to adjust to field conditions or when design changes are necessary. Design quantities are based on the horizontal dimensions and compacted thickness of the completed course shown on the plans.

Asphaltic concrete will be measured by the square yard from printed weights as provided in Section 503 of the Louisiana Standard Specifications for Roads and Bridges, 2016 Edition and its latest revisions. Stamped printer tickets will be issued for each truckload of material delivered. Material lost, wasted, rejected, or applied contrary to specifications will not be measured for payment.

Payment for asphaltic concrete pavement will be made at the contract unit price per square yard. When the mix does not conform to the acceptance requirements, payment will be made at an adjusted price per unit of measurement in accordance with Subsection 501.14 of the Louisiana Standard Specifications for Roads and Bridges, 2000 Edition and its latest revisions.

Payment for asphaltic concrete pavement will include furnishing all required materials, producing the mixtures, preparing the surfaces on which the mixtures are placed, hauling the mixtures to the work site, and placing and compacting the mixtures.

For wearing course mixtures, the lowest percentage of contract price will be used for final adjustment in unit price for deficiencies in Marshall Stability, pavement density, surface tolerance, aggregate gradation, and anti-strip additive.

For binder Mixes, the lowest percentage of contract price will be used in final adjustment in unit price for deficiencies in Marshall Stability, pavement density, aggregate gradation, and anti-strip additive.

Measurement and payment will be made under:

<u>Item #</u>	<u>Pay Item</u>	<u>Pay Unit</u>
501-02-A	Asphalt Concrete Pavement (Type III Wearing Course – 1.5” thick)	Square Yard
501-02-B	Asphalt Concrete Pavement (Type III Binder Course – 1.5” thick)	Square Yard

TABLE 501-3**REQUIREMENTS FOR ASPHALTIC CONCRETE MIXTURES**

A. MIXTURE REQUIREMENTS			
U. S. Sieve % Passing	Type 3		
	Wearing Course ¾ inch Nominal	Binder Course 1 inch Nominal	
1 ½ inch	--	100	
1 inch	100	90-100	
¾ inch	90-100	89 max.	
½ inch	89 max.	--	
⅜ inch	--	--	
No. 4	--	--	
No. 8	23-49	19-45	
No. 16	--	--	
No. 30	--	--	
No. 50	--	--	
No. 100	--	--	
No. 200	2.0-8.0	1.0-7.0	
Extracted Asphalt, %	--	--	
Mix Temperature, °F	--	--	
% Crushed, Min.	85	70	
Aggregate ²	A, B, C	A, B, C, D, E, F, H	
Marshall Stability, lbs			
No. of Blows	75	75	
Design ³	1700	1700	
Minimum	1500	1500	
Individual	1300	1300	
Mar. Flow 1/100 inch	6-15	5-15	
% Air Voids	3.0-5.0	3.0-5.0	
% VFA ⁴	--	--	
%VMA, Min.	13.0	12.0	
% Rap, Max. ⁵	0.0	20.0	
B. PAVEMENT REQUIREMENTS			
Density, Min. 92.0 (% Theoretical Maximum Specific Gravity, AASHTO T 209) Roadway Travel Lane Wearing and Binder Courses			
Density, Min. 91.0 (% Theoretical Maximum Specific Gravity, AASHTO T 209) Shoulders			
Surface Tolerance Variation, in ⁶	Transverse ⁷	Cross Slope ⁷	Grade ⁸
Roadway Travel Lane Wearing Courses ⁹	⅛	⅛	½
Binder Courses	¼	½	½
Shoulder Wearing Course	⅜ ₁₆	¾	¾

- 2 A- Gravel, B- Slag, C- Stone approved for wearing course, D- Stone, E- Clam or reef shell, F- Expanded clay, G- Sand Gravel, H- Reclaimed asphaltic pavement. See Subsection 501.02 (c) of the Louisiana Standard Specifications for Roads and Bridges, 2016 Edition and its latest revisions.
- 3 The Contractor shall design a mixture at a stability value based on historical plant performance that will ensure compliance with 100% pavement requirements for the average four samples. Values listed may be used as guide.
- 4 %VFA shall be reported for informational purposes only.
- 5 All shoulder wearing courses may include up to 20% Reclaimed Asphaltic Pavement (RAP).
- 6 For longitudinal surface tolerance requirements, see Subsection 501.10 (a) of the Louisiana Standard Specifications for Roads and Bridges, 2016 Edition and its latest revisions.
- 7 Based on 10 feet.
- 8 Applicable only when grade is specified.
- 9 For longitudinal surface tolerance acceptance testing for payment, see Subsection 501.12 (c) (5) of the Louisiana Standard Specifications for Roads and Bridges, 2016 Edition and its latest revisions.

END OF SECTION 501

SECTION 504 – ASPHALT TACK COAT

504.01 DESCRIPTION OF WORK

The work covered by this section of Specifications shall be in accordance to Section 504 of the Louisiana Standard Specifications for Roads and Bridges, 2016 Edition and latest revisions, or as amended herein and includes, but is not necessarily limited to, the following:

1. Preparing and treating existing asphaltic or Portland cement concrete pavement surfaces with asphaltic material in conformity with the plans.

504.02 GENERAL

Asphalt tack coat shall not be applied on a wet surface or when the ambient air temperature is below 40°F (5°C). The surface shall be cleaned by sweeping or other approved methods. Edges of existing pavements which will form joints with new pavement shall be satisfactorily cleaned before tack coat is applied.

Asphalt shall be uniformly applied to a clean dry surface with no bare areas, streaks, or puddles with an asphalt distributor at a rate in accordance with Table 504-1 in Subsection 504.06 of the Louisiana Standard Specifications for Roads and Bridges, 2016 Edition and latest revisions. The Contractor will be permitted to apply the tack coat one calendar day prior to the mixture laydown; however, when tack coat has been damaged by traffic pick-up or contaminated by dirt, dust, or mud, the surface shall be cleaned and retacked prior to the mixture laydown at no direct pay. Tacked surfaces exposed to traffic for more than 24 hours or damaged due to inclement weather shall be retacked at no direct pay.

504.03 MATERIALS

Tack coat shall be an undiluted modified asphalt emulsion Grade CRS-2P, CSS-1, SS-1, SS-1P, or SS-1L complying with Section 1002 of the Louisiana Standard Specifications for Roads and Bridges, 2016 Edition and latest revisions.

The Contractor shall provide all materials, labor, and equipment necessary to complete required work. Performance shall meet the requirements of the specifications.

Equipment for asphaltic tack coat application shall conform to Subsections 503.14 and 503.18 of the Louisiana Standard Specifications for Roads and Bridges, 2016 Edition and latest revisions.

504.04 MEASUREMENT AND PAYMENT

Asphalt tack coat will not be measured for payment.

END OF SECTION 504

SECTION 601 – PORTLAND CEMENT CONCRETE PAVEMENT

601.01 DESCRIPTION OF WORK

The work covered by this section of Specifications shall be in accordance to Section 601 of the Louisiana Standard Specifications for Roads and Bridges, 2016 Edition and latest revisions, or as amended herein and includes, but is not necessarily limited to, the following:

1. Constructing Portland cement concrete pavement, on a prepared subgrade or base course in accordance with these specifications, and in conformity with the lines, grades, thickness, and sections shown on the plans.

601.02 GENERAL

Paving and equipment shall comply with the requirements of the appropriate subsection of Section 601 of the Louisiana Standard Specifications for Roads and Bridges, 2016 Edition and latest revisions.

The surface on which the concrete is to be placed shall be prepared and maintained in accordance with plan details and in such a manner that the pavement depth, grade, and surface finish requirements will be met. Additional preparation needed for the support of construction equipment will be at no direct pay. The subgrade or base material shall be cleaned of loose material and maintained in a satisfactory condition, and any deficient areas shall be corrected at no direct pay. The subgrade or base course shall be graded to proper cross section. High areas shall be trimmed to grade.

The subgrade or base course shall be uniformly moist when concrete is placed. When directed, the subgrade or base shall be sprinkled to dampen the surface, but the method of sprinkling shall not form mud or pools of water. Concrete shall be deposited on the base or subgrade in such manner as to require as little rehandling as possible. Placing shall be continuous between transverse joints without the use of intermediate bulkheads.

The Contractor shall furnish concrete for casting test specimens as required at no direct pay.

All joints and joint materials shall conform to Subsection 601.09 of Section 601 of the Louisiana Standard Specifications for Roads and Bridges, 2016 Edition and latest revisions.

Immediately after completion of finishing operations and as soon as marring of concrete will not occur, the pavement surface shall be cured by covering with a white pigmented curing compound. Curing compound shall not be applied during rainfall.

Forms shall not be removed from freshly placed concrete until it has achieved final set. Forms shall be removed carefully to avoid damage to pavement. After forms are removed, sides of the slab shall be cured in accordance with Subsection 601.10 of Section 601 of the Louisiana Standard Specifications for Roads and Bridges, 2016 Edition and latest revisions.

Each joint will be subject to approval for proper width, depth, alignment, and preparation before sealing. Joints shall be thoroughly cleaned immediately prior to sealing. Sealant shall be placed as soon as possible after curing of concrete. Joint sealants shall be installed in accordance with the manufacturer's recommendations.

Sampling and testing for acceptance will be conducted in each lot of pavement for thickness, compressive strength, and surface tolerance. Any pavement that is obviously deficient shall be satisfactorily corrected or removed and replaced.

601.03 MATERIALS

The Contractor shall provide all materials, labor, and equipment necessary to complete required work. Performance shall meet the requirements of the specifications.

601.04 MEASUREMENT AND PAYMENT

Payment for Portland cement concrete includes furnishing and placing all materials including tie bars, dowel bars, and joint material.

The quantities of Portland cement concrete pavement for payment will be the design quantities specified in the plans and adjustments thereto. Design quantities will be adjusted if the engineer makes changes to adjust to field conditions, if plan errors are proven, or if design changes are necessary. Design areas of pavement are based on the horizontal dimensions shown on the plans.

Payment for Portland cement concrete pavement will be on a lot basis at the contract unit price per square yard, which includes furnishing and placing all materials including tie bars, dowel bars, and joint material. Concrete cores taken for thickness and strength acceptance will be paid at the contract unit price per each.

Measurement and payment shall be made under:

<u>Item #</u>	<u>Pay Item</u>	<u>Pay Unit</u>
601-01&02	Portland Cement Concrete Pavement 6" Thick	Square Yard

END OF SECTION 601

SECTION 701 – CULVERTS AND STORM DRAINS

701.01 DESCRIPTION OF WORK

The work covered by this section of Specifications shall be in accordance to Section 701 of the Louisiana Standard Specifications for Roads and Bridges, 2016 Edition and latest revisions, or as amended herein and includes, but is not necessarily limited to, the following:

1. Furnishing, installing, and cleaning pipe, pipe arch, storm drains, and sewers, also referred to as culverts or conduit, in accordance with these specifications and in conformity with lines, grades, and sizes shown on the plans.

701.02 GENERAL

The Contractor shall maintain access to businesses and residents at all time during construction. The Contractor shall maintain drainage and driveway access at the end of the day's pipe laying. Only as much trench shall be opened in advance of pipe laying operations as can be laid in a day. At the end of each day's work, the end of the last length of pipe laid shall be blanketed with a cover to prevent intrusion of trash.

The Contractor shall provide bracing at power poles as per instructions from the utility owner where the trench excavation is adjacent to the poles at no direct pay.

The Contractor shall investigate, by pot-holing and other means, the actual locations of private and public utilities prior to beginning its pipe laying operations at no direct pay. Contractor shall immediately notify the Engineer of any conflicts. Any pot-holing performed at the request of the Engineer shall be in accordance with the General Specifications.

The Contractor shall provide excavation, timber foundation (including sheeting and bracing), crushed stone bedding material, geotextile fabric, and granular material backfill in accordance with the plan details at no direct payment.

Geotextile fabric shall be provided and placed in continuous lengths and overlapped a minimum length of 24 inches.

All water and sewer service lines to the individual residents and businesses in conflict with the new drain lines and structures shall be relocated in accordance with St. Tammany Parish standards.

Storm drain pipe shall be as noted on plans.

Bedding and trench requirements have been provided for the piping as shown on the plans. Bedding, trenching, and installation of all piping shall be, at a minimum, in accordance with the LADOTD Standard Specifications and the manufacturer's recommendations for the existing soil conditions found at the site.

After pipe has been laid and before backfill is placed, the engineer will inspect the pipe for alignment, grade, integrity of joints, and coating damage. Prior to backfilling, pipes found to be damaged or out of alignment or grade shall be removed and reinstalled, or replaced by the Contractor at no direct pay.

Prior to final acceptance, all pipes (newly installed or existing) shall be cleaned of all debris and soil to the invert of the pipes at no direct pay.

701.03 MATERIALS

Culverts and storm drain materials shall be conform to Subsection 701.02 of the Louisiana Standard Specifications for Roads and Bridges, 2016 Edition and its latest revisions.

Reinforced Concrete Pipe Drainage Pipe shall conform to ASTM C76-07, ASTM C655, and ASTM C990 and the requirements of Subsection 701.02 of the Louisiana Standard Specifications for Roads and Bridges, 2016 Edition and its latest revisions.

Bedding material shall be crushed stone conforming to the requirements of Section 726 of the Louisiana Standard Specifications for Roads and Bridges, 2016 Edition and its latest revisions.

Backfill shall be non-plastic granular material conforming to the requirements of Subsection 1003.07 of the Louisiana Standard Specifications for Roads and Bridges, 2016 Edition and its latest revisions.

Geotextile Fabric used to wrap bedding material and pipe joints shall conform to the requirements of Section 1019 of the Louisiana Standard Specifications for Roads and Bridges, 2016 Edition and its latest revisions.

The Contractor shall provide all materials, labor, and equipment necessary to complete required work. Performance shall meet the requirements of the specifications.

701.04 MEASUREMENT AND PAYMENT

No measurement or direct payment will be made for excavation, timber foundation, bedding material, geotextile fabric, granular material backfill, sheeting and bracing, connections to existing facilities, or any necessary saw cutting and plugs. Payment for these items shall be included on the contract unit price bid for drainage pipe. Drainage pipe shall be measured by the linear foot in place to the nearest foot.

Payment for drainage pipe will be made at the contract unit price per linear foot, which includes tools, equipment, labor, and incidentals necessary to complete the work.

Measurement and payment will be made under:

<u>Item #</u>	<u>Pay Item</u>	<u>Pay Unit</u>
701-01	Storm Drain Pipe (24" RCP)	Linear Foot

END OF SECTION 701

SECTION 711 – RIPRAP

711.01 DESCRIPTION OF WORK

The work covered by this section of Specifications shall be in accordance to Section 711 of the Louisiana Standard Specifications for Roads and Bridges, 2016 Edition and latest revisions, or as amended herein and includes, but is not necessarily limited to, the following:

1. Furnishing and placing riprap for inlet and outlet controls in accordance with these specifications and in conformity to lines, grades, and thickness shown on the plans or as directed.

711.02 GENERAL

Areas on which riprap is to be placed shall be graded to the required section. Riprap shall be placed on the prepared slope or area in a manner which will produce a reasonably well-graded mass of stone with a minimum practicable percentage of voids.

711.03 MATERIALS

Materials shown on the project drawings shall conform to Subsection 711 of the Louisiana Standard Specifications for Roads and Bridges, 2016 Edition and latest revisions.

Stone riprap shall be from an approved source as listed in Section 711 of the Louisiana Standard Specifications for Roads and Bridges, 2016 Edition and latest revisions. Stone riprap shall not disintegrate upon exposure to the elements or be easily broken from handling, and shall reasonably free from earth and other foreign materials.

Riprap shall be reasonably well graded and shall comply with Table 711-1 as shown in Subsection 711.02 of the Louisiana Standard Specifications for Roads and Bridges, 2016 Edition and latest revisions.

Riprap shall be free of any protruding metal reinforcement (i.e. rebar).

The Contractor shall provide all materials, labor, and equipment necessary to complete required work. Performance shall meet the requirements of the specifications and project drawings.

711.04 MEASUREMENT AND PAYMENT

Riprap shall be measured on a square yard basis as specified. The quantity measured will be that actually placed to the limiting dimensions shown on the plans or as directed by the Engineer.

Measurement and payment shall be made under:

<u>Item #</u>	<u>Pay Item</u>	<u>Pay Unit</u>
711-01	Riprap	Square Yard

END OF SECTION 711

SECTION 726 – BEDDING MATERIAL

726.01 DESCRIPTION OF WORK

The work covered by this section of Specifications shall be in accordance to Section 726 of the Louisiana Standard Specifications for Roads and Bridges, 2016 Edition and latest revisions, or as amended herein and includes, but is not necessarily limited to, the following:

1. Furnishing and placing aggregate bedding material on geotextile fabric in accordance with these specifications and in conformity with the lines, grades, and typical section shown on the plans or as directed by the Engineer.

726.02 GENERAL

Bedding material shall be constructed in accordance with Subsections 726.03 of the Louisiana Standard Specifications for Roads and Bridges, 2016 Edition and its latest revisions.

Geotextile fabric shall be placed in accordance with plan details prior to placing bedding material. Care shall be taken to prevent damage to geotextile fabric during placement of bedding material. Materials shall be placed, shaped, and uniformly compacted to the satisfaction of the engineer. Adjacent rolls of fabric will be overlapped or sewn. When rolls are overlapped, the overlap shall be a minimum of 18 inches, including the ends of the rolls. Damaged fabric shall be either removed and replaced with new fabric or covered with a second layer of fabric extending 2 feet in each direction from the damaged area.

Excavation below the established grade of the structure for placement of bedding material shall be used or disposed of in accordance with Section 203 of these specifications.

726.03 MATERIALS

Bedding material shall conform to Subsection 726.02 of the Louisiana Standard Specifications for Roads and Bridges, 2016 Edition and its latest revisions.

The Contractor shall provide all materials, labor, and equipment necessary to complete required work. Performance shall meet the requirements of the specifications.

726.04 MEASUREMENT AND PAYMENT

Bedding material, completed and accepted will be measured by the cubic yard. Geotextile fabric will not be measured for payment.

Payment for bedding material will be made at the contract unit price per cubic yard which shall include all materials, tools, equipment, labor, and incidentals necessary to complete the work.

Measurement and payment will be made under:

END OF SECTION 726

SECTION 727 – MOBILIZATION

727.01 DESCRIPTION OF WORK

The work covered by this section of Specifications shall be in accordance to Section 727 of the Louisiana Standard Specifications for Roads and Bridges, 2016 Edition and latest revisions, or as amended herein and includes, but is not necessarily limited to, the following:

1. Mobilization of personnel, equipment, temporary utilities, and supplies.

727.02 GENERAL

The work consists of preparatory work and operations, including those necessary for movement of personnel, equipment, supplies, and incidentals to the project site; the establishment of offices, buildings, and other facilities necessary for work on the project; the cost of bonds and any required insurance; and other preconstruction expenses necessary for start of the work, excluding the cost of construction materials.

727.03 MATERIALS

The Contractor shall provide all materials, labor, and equipment necessary to complete required work. Performance shall meet the requirements of the specifications.

727.04 MEASUREMENT AND PAYMENT

Partial payments for mobilization will be made in accordance with the schedule of Table 727-1 of the Louisiana Standard Specifications for Roads and Bridges up to a maximum of 10 percent of the original total contract amount, including this item. Payment of any remaining amount will be made upon completion of all work under the contract.

Measurement and payment shall be made under:

<u>Item #</u>	<u>Pay Item</u>	<u>Pay Unit</u>
727-01	Mobilization	Lump Sum

END OF SECTION 727

SECTION 739 – HYDRO-SEEDING

739.01 DESCRIPTION OF WORK

The work covered by this section of Specifications shall be in accordance to Section 739 of the Louisiana Standard Specifications for Roads and Bridges, 2016 Edition and latest revisions, or as amended herein and includes, but is not necessarily limited to, the following:

1. Preparation of seed beds and sowing grass seed utilizing hydro-seeding equipment and methods in order to establish a turf grass cover to areas designated on the plans or as directed.

739.02 GENERAL

Hydro-seeding shall consist of mixing and applying seed, commercial fertilizer, water management gel, polyacrylamide tackifier, and mycorrhizal inoculum with paper or wood fiber and water. Seed and commercial fertilizer shall be uniformly spread over the area at the rates specified in Table 717-1 and Table 718-1 of the Louisiana Standard Specifications for Roads and Bridges, 2016 Edition and latest revisions. Paper or wood fiber shall be mixed and applied with the seed in accordance with the manufacturer's recommendations and as approved by the Engineer. Seed beds shall be prepared in accordance with Subsection 717.04 of the Louisiana Standard Specifications for Roads and Bridges, 2016 Edition and latest revisions.

In case of winter grass seeding, 30# per acre of unhulled Bermuda should be added to the mix.

739.03 MATERIALS

The Contractor shall provide all materials, labor, and equipment necessary to complete required work. Performance shall meet the requirements of the specifications.

739.04 MEASUREMENT AND PAYMENT

Hydro-seeding will include the seed, mulch, tackifier, lime, fertilizer, water, and bed preparation as a system.

Measurement and payment shall be made under:

<u>Item #</u>	<u>Pay Item</u>	<u>Pay Unit</u>
739-01	Hydro-Seeding	Acre

END OF SECTION 739

SECTION 740 – CONSTRUCTION LAYOUT

740.01 DESCRIPTION OF WORK

The work covered by this section of Specifications shall be in accordance to Section 740 of the Louisiana Standard Specifications for Roads and Bridges, 2016 Edition and latest revisions, or as amended herein and includes, but is not necessarily limited to, the following:

1. Construction layout.
2. Field engineering and surveying. Survey staking property corners, staking roadways, staking boundaries at not greater than 100 foot intervals, and provide benchmarks as needed for construction purposes.

740.02 GENERAL

The work consists of establishing lines and grades, taking all cross sections, and staking out the construction work, including sufficient vertical and horizontal points, in accordance with these specifications, plan details, and as directed; the layout of payment striping and raised pavement markers and providing assistance in the coordination of utility relocation activities to ensure that the placement of relocated facilities will not conflict with required construction.

The Contractor shall employ qualified engineering and surveying personnel experienced in layout and construction of highways to correctly establish and keep complete and comprehensive notebook records (field books) of all lines and grades necessary from initial layout to final acceptance.

The Contractor shall be liable for the accuracy of the initial layout and all subsequent alignment and elevations and shall, at no additional cost to Owner, rebuild, repair, or make good any portion of the work found to be incorrectly positioned either horizontally or vertically at any time before final acceptance.

Numbered notebooks for recording of all lines and grades will be provided to the Engineer and shall be properly indexed and cross referenced by the Contractor for submittal with final estimates.

740.03 MATERIALS

The Contractor shall provide all materials, labor, and equipment necessary to complete required work. Performance shall meet the requirements of the specifications.

740.04 MEASUREMENT AND PAYMENT

Construction layout and utility oversight and coordination will include all labor, materials, and incidentals required to complete the work.

Measurement and payment shall be made under:

<u>Item #</u>	<u>Pay Item</u>	<u>Pay Unit</u>
740-01	Construction Layout	Lump Sum

END OF SECTION 740

SECTION 741 – WATER DISTRIBUTION SYSTEM

741.01 DESCRIPTION OF WORK

The work covered by this section of Specifications shall be in accordance to Section 741 of the Louisiana Standard Specifications for Roads and Bridges, 2016 Edition and latest revisions, or as amended herein and includes, but is not necessarily limited to, the following:

1. Furnishing the necessary materials and installing, relocating, and adjusting water distribution systems in accordance with these specifications and in conformity with the plans or as directed by the Engineer.

741.02 GENERAL

Water distribution system shall be constructed in accordance with Subsections 741.03 of the Louisiana Standard Specifications for Roads and Bridges, 2016 Edition and its latest revisions.

Trench excavation shall conform to Section 701 of the Louisiana Standard Specifications for Roads and Bridges, 2016 Edition and its latest revisions, and the following requirements. Minimum bury (depth from grade to top of pipe) under pavement or surfacing shall be 4 feet.

The Contractor shall remove existing pavement as necessary for trench excavation. Pavement shall be cut back from the top edges of trenches at least 24 inches on each side of the trench. The requirements of Section 510 of the Louisiana Standard Specifications for Roads and Bridges, 2016 Edition and its latest revisions, shall be followed for removing and replacing pavement except that no separate payment will be made for this work.

Connection to existing mains; laying water mains and appurtenances; relocations, adjustments, and removals; and testing and disinfection shall conform to subsection 741.03 of the Louisiana Standard Specifications for Roads and Bridges, 2016 Edition and its latest revisions.

741.03 MATERIALS

A certificate of compliance from the manufacturer showing the chemical and physical properties of the materials used and conformance with the specifications will be required for each item.

Plastic pipe and tubing shall be polyvinyl chloride or polyethylene pipe and tubing and shall conform to Subsection 741.02 of the Louisiana Standard Specifications for Roads and Bridges, 2016 Edition and its latest revisions.

The Contractor shall provide all materials, labor, and equipment necessary to complete required work. Performance shall meet the requirements of the specifications.

741.04 MEASUREMENT AND PAYMENT

Water Distribution Systems will be measured on a lump sum basis, which will include furnishing and installing all equipment and apparatus, and performing work required including relocations and removals for a complete system.

Excavation and backfill will not be measured for payment.

Pavement removed and replaced, including sawcutting, testing, disinfection and detection wire for plastic pipe, will not be measured for payment.

Payment will be made at the contract unit prices which shall include all materials, tools, equipment, labor, and incidentals necessary to complete the work.

Measurement and payment will be made under:

<u>Item #</u>	<u>Pay Item</u>	<u>Pay Unit</u>
741-01	6" PVC PIPE, C-900	Linear Foot
741-01	6" Line Stop	Each
741-03	6"x6" Tapping Sleeve & 6" Valve	Each
741-04	1" PVC Water Line	Linear Foot
741-05	RV Water Service Connection	Each

END OF SECTION 741

SECTION 742 – SANITARY SEWER SYSTEMS

742.01 DESCRIPTION OF WORK

The work covered by this section of Specifications shall be in accordance to Section 742 of the Louisiana Standard Specifications for Roads and Bridges, 2016 Edition and latest revisions, or as amended herein and in the appendix and includes, but is not necessarily limited to, the following:

1. Furnishing the necessary labor for installing, relocating, and adjusting sanitary sewers and appurtenances in accordance with these specifications and in conformity with the lines and grades shown on the plans or established by the engineer.

742.02 GENERAL

The Contractor shall follow and comply with all Federal, State, Parish, and Local regulations regarding temporary erosion control practices. The Contractor shall follow all manufacturer's specifications as located in the appendix with regards to the lift station. Sewer manholes and junction boxes shall be constructed or reconstructed in accordance with the plans and Section 702 of these specifications.

The Contractor shall maintain continuous flow of sewage during construction and relocation operations. No diversion of sewage flow into open trenches or streams will be permitted.

Underground water lines, gas lines, telephone conduits, drainage structures, etc. shall be located and protected by the Contractor during construction.

The requirements for Section 701, Section 702, and this specification for excavation shall be met. Minimum bury under pavement or surfacing shall be as shown on the plans. Construction under pavement shall be performed as directed by the Owner and engineer.

No pipe shall be cut for connections except as indicated on the plans or as directed. The cost for making connections, including connections to existing facilities, shall be included in the contract price for the sanitary sewer system. The Contractor shall use care in connecting new sewer lines to existing manholes and connecting existing sewer lines to new manholes to avoid infiltration of foreign substances. Manholes shall be cleaned of fallen masonry or debris. New pipe and fittings required to adjust existing connections shall be equal in quality to that of the existing installation and meet the requirements of the utility and code.

Completed sewer lines shall be tested with reflected light and shall show an unobstructed view between manholes. Infiltration shall not exceed 10 gallons per day per inch diameter per 100 feet of pipe. On lines where flow indicates infiltration in excess of this amount, a leakage test shall be conducted at the Contractor's expense by a method satisfactory to the engineer. Sewer lines showing excessive leakage or undue deviation from line or grade shall be repaired or replaced by the Contractor at his expense.

742.03 MATERIALS

The Owner shall provide materials necessary to complete the required work. For any materials not provided by the Owner, the Contractor shall provide. The Contractor shall provide all labor, and equipment necessary to complete required work. Performance shall meet the requirements of the specifications.

742.04 MEASUREMENT AND PAYMENT

Sanitary Sewer Systems will be measured on a lump sum basis as stipulated in the contract and shall include all work required.

Measurement and payment shall be made under:

<u>Item #</u>	<u>Pay Item</u>	<u>Pay Unit</u>
742-01	8" Sanitary Sewer Pipe	Linear Foot
742-02	Manhole (MH-06)	Each
742-03	4" PVC Sewer Pipe	Linear Foot
742-04	20 GPM Grinder Lift Station w/ Control Panel	Each
742-05	PVC Sewer Cleanout	Each
742-06	RV Sewer Connection	Each

END OF SECTION 742

SECTION 822 – ELECTRICAL SYSTEMS

822.01 DESCRIPTION OF WORK

The work covered by this section of Specifications shall be in accordance to Section 202 of the Louisiana Standard Specifications for Roads and Bridges, 2016 Edition and latest revisions, or as amended herein and includes, but is not necessarily limited to, the following:

Furnish equipment, materials, tools, and labor to purchase/fabricate, shop test, transport, install/erect, wire, align/adjust, paint, field test, and set-up electrical items/systems as specified.

822.02 ACRONYMS AND ABBREVIATIONS

IES	Illuminating Engineering Society
NEC	National Electrical Code
NESC	National Electrical Safety Code
NFPA	National Fire Protection Association
UL	Underwriters Laboratories, Inc.

822.03 DEFINITIONS

System compatibility covers the overall functionality, appropriateness, and integration with all components used to make up that system and interfacing with adjacent systems or components, whether electrical or non-electrical.

See 101.03, 801.03, and 820.03 for additional definitions.

822.04 EQUIPMENT AND MATERIALS

Furnish equipment and materials suitable for the intended use with all necessary hardware and components.

References to a specific manufacturer's name and/or catalog number are intended to denote the quality and function of equipment or material and not to specifically exclude other products. When specified model or catalog numbers conflict with descriptive specifications, plans, or system compatibility, the descriptive specifications, plans, or system compatibility shall govern.

Except for those products designated as fabricated or those that are no longer produced, all specified products shall be manufactured by companies that regularly engage in the production of the specified products.

The products specified must be specifically designed, tested, and manufactured for the purpose for which they will be used. Modification of equipment for other than design purposes will be permitted only when no currently manufactured products meet the specifications. Such modifications shall be submitted for review to the Engineer and the manufacturer prior to purchasing equipment.

Consider all manufactured items identified on the plans by a manufacturer and a part number to be followed by the phrase "or item of equal or better quality and function."

All manufactured parts/equipment and all material for fabricated parts shall be new. Like equipment and materials shall be made by the same manufacturer.

The plans, item descriptions, and specifications do not necessarily include or define everything necessary for a complete and operational item. When required, provide any modifications, fabrications, extra hardware, and equipment necessary for the satisfactory installation and operation of the system to coordinate with other items or conditions. The cost of such provisions shall be included in the bid price.

Materials shall comply with the plans and specifications.

822.05 GENERAL REQUIREMENTS

By bidding on the project, the bidder affirms to having necessary knowledge and experience, to understanding the intent of the contract, and to the obligation of providing complete, safe, and functioning electrical systems in accordance with the intent of the contract.

1. Provide personnel knowledgeable and experienced in the installation, wiring, assembly, adjustment, fabrication, and testing of the type of electrical systems specified in the contract. Although the contract documents are of sufficient detail and quality to convey the intent of the design to an experienced contractor, they do not necessarily depict every detail or specify every ancillary item required for the electrical systems to be properly installed, wired, assembled, aligned, fabricated, transported, adjusted, tested, painted, and functioning in accordance with the intent of the contract. Some drawings are diagrammatic and do not show the exact location and size of equipment. Prevent interference and conflicts and ensure system compatibility; coordinate the work as required and in accordance to the following:

2. Comply with the applicable requirements of the NEC, NFPA 70E, and UL, etc., except where superseded by applicable laws.

3. Check mounting space, equipment dimensions, and installation requirements before ordering equipment.

4. Establish the electrical circuit requirements of all equipment to be served before ordering material.

5. Where circuits are to serve specific appliances, equipment, or feeders, verify the electrical requirements and the exact location of connections before installing the service to the equipment. If any portion of the work that is not clearly defined in the contract, or if the contract has a conflict, or if the contract appears to violate any governing laws, codes, or regulations, submit a written Request For Information (RFI) to the Project Engineer for clarification prior to proceeding with the work. Any such work performed without a completed RFI is at the contractor's risk. RFI's shall be submitted on the Department's official RFI form for review. The form can be found on the Department's website.

Use best industry practices at all times during fabrication, assembly/alignment, installation, wiring, and testing of all electrical systems.

822.06 SUBMITTALS

Prepare and submit electrical items/system submittals shown on the plans to the Engineer for review or record in accordance with 105.02.2, 801.05, 820.06, and the following:

Manufactured items/materials shall be installed in accordance with the manufacturer's recommendations and instructions unless otherwise noted on the plans. Prior to installation of manufactured items at the project site, provide the manufacturer's written installation recommendations and instructions to the Department's Inspector/Project Engineer as requested for reference during installation.

822.06.2 MANUFACTURER INFORMATION SHEETS

Prepare and submit cut sheets for all manufactured items. Cut sheets must be of good quality and easily readable. Poor quality can be reason for rejection.

Stamp each sheet of each submittal with the project name, project number, parish name, and contractor's name. Include the manufacturer's name if not already shown on the cut sheet and the electrical item number assigned for the item on the plans.

Pertinent ratings, sizes, features, or any other data specified on the plans must be indicated on the cut sheet with an arrow or other such mark. Do not use highlight markers.

Cross out all items on a cut sheet that are not specifically being submitted. Include the manufactured

item's warranty information if the warranty extends beyond the contractor's guarantee period. Always include documentation for extended warranties that were required to be purchased for the contract.

822.06.2.1 CUT SHEET SUBMITTAL PROCEDURE:

Submit cut sheets electronically to the engineer for review. The electronic file shall be a single color, portable document format (PDF File).

For bidding purposes, allow a review period of 14 calendar days per submittal for submittals consisting of 25 or less cut sheets. For submittals containing more than 25 cut sheets, allow a review period of 14 calendar days per 25 sheets submitted rounded up (e.g., 26 to 50 sheets equals a 28 calendar day review). Review periods for separate submittals are not concurrent.

After review, rejected cut sheets will be stamped "Returned for Correction", will be initialed and dated by the reviewer, will have comments marked in red, and will be returned electronically. Correct submittal and resubmit electronically to the Engineer for review. This process will repeat until the Department has no comments. Submittals will then be stamped "Accepted in accordance with LSSRB 105.02," initialed and dated by the reviewer, and distributed electronically by the Department.

822.06.5 ELECTRICAL RECORD DRAWINGS:

Electrical Record Drawings shall become part of the final estimate package and submitted for archiving. They shall consist of the following:

1. Original, full scale, electrical contract plan sheets and change order sheets. These sheets shall have the Project Engineer's signature certifying that the drawings are As-Built.
2. All reviewed and stamped "Electrical Shop Drawings."
3. Any electrical contract plan sheets (full scale) that have been marked to indicate construction changes ("As Built" sheets). These sheets shall have the Project Engineer's signature certifying that the changes are accurate.

822.10.1 ELECTRICAL SERVICE:

Make arrangements with the power company for temporary and permanent electrical service; verify the exact location and points of attachment before installation.

822.10.1 Temporary Service: Temporary electrical service including

power usage and installation shall be included in the price bid for the item.

822.10.2 Permanent Service: The Department will pay the power company for line extensions if such extensions are not the result of contractor errors or failure to verify or coordinate with the power company. Power usage during construction and testing shall be included in the price bid for the item.

822.11.8 ELECTRICAL SERVICE POINTS:

Electrical service points will be measured per each, which will include the pole, controller assembly, footing,

Anchor bolts, ground rod, conduits in footing, rigid conduit and conductors on utility company pole connections, hardware, breakers and all equipment as shown on the plans.

822.12 PAYMENT:

Payment for electrical work will be made at the contract unit prices and will include all materials, labor, equipment, tools necessary to furnish, construct, and/or install this item in accordance with the plans and specifications.

<u>Item #</u>	<u>Pay Item</u>	<u>Pay Unit</u>
822-01	Electrical Trenching & Backfill	Linear Foot
822-02	Electrical Conduit & Conductor	Linear Foot
822-08.01	100 AMP Electrical Service PT	Linear Foot
822-08.02	200 AMP Electrical Service PT	Linear Foot
822-08.03	50 AMP Electrical Service PT	Linear Foot

END OF SECTION 822

SECTION S-01322 - PHOTOGRAPHIC DOCUMENTATION

PART 1 - GENERAL

1.01 RELATED DOCUMENTS

- A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and other Division 1 Specification Sections, apply to this Section.

1.02 SUMMARY

- A. This Section includes administrative and procedural requirements for the following:
 - 1. Preconstruction photographs.
 - 2. Periodic construction photographs.
 - 3. Final Completion construction photographs.
- B. Related Sections include the following:
 - 1. Division 0 Section "General Conditions" for submitting photographic documentation and for submitting digital media as Project Record Documents at Project closeout.

1.03 SUBMITTALS

- A. Qualification Data: For photographer.
- B. Construction Photographs: Submit two prints of each photographic view within seven days of taking photographs.
 - 1. Format: 8-by-10-inch smooth-surface matte prints on single-weight commercial-grade photographic paper, punched for standard 3-ring binder.
 - 2. Identification: On back of each print, provide an applied label or rubber-stamped impression with the following information:
 - a. Name of Project.
 - b. Name and address of photographer.
 - c. Name of Owner.
 - d. Name of Contractor.
 - e. Date photograph was taken if not date stamped by camera.
 - f. Description of vantage point, indicating location, direction (by compass point), and elevation or story of construction.
 - g. Unique sequential identifier.
 - 3. Digital Images: Submit a complete set of digital image electronic files as a Project Record Document on CD-ROM. Identify electronic media with date photographs were taken. Submit images that have same aspect ratio as the sensor, uncropped.

1.04 QUALITY ASSURANCE

- A. Photographer Qualifications: An individual who has been regularly engaged as a professional photographer of construction projects for not less than three years.

1.05 COORDINATION

- A. Auxiliary Services: Cooperate with photographer and provide auxiliary services requested, including access to Project site and use of temporary facilities, including temporary lighting required to produce clear, well-lit photographs without obscuring shadows.

1.06 USAGE RIGHTS

- A. Obtain and transfer copyright usage rights from photographer to Owner for unlimited reproduction of photographic documentation.

PART 2 - PRODUCTS

2.01 PHOTOGRAPHIC MEDIA

- A. Digital Images: Provide images in uncompressed TIFF format, produced by a digital camera with minimum sensor size of 4.0 megapixels, and at an image resolution of not less than 1024 by 768 pixels.

PART 3 - EXECUTION

3.01 CONSTRUCTION PHOTOGRAPHS

- A. Photographer: Engage a qualified commercial photographer to take construction photographs.
- B. General: Take photographs using the maximum range of depth of field, and that are in focus, to clearly show the Work. Photographs with blurry or out-of-focus areas will not be accepted.
- C. Digital Images: Submit digital images exactly as originally recorded in the digital camera, without alteration, manipulation, editing, or modifications using image-editing software.
 - 1. Date and Time: Include date and time in filename for each image.
 - 2. Field Office Images: Maintain one set of images on CD-ROM in the field office at Project site, available at all times for reference. Identify images same as for those submitted to Owner.
- D. Preconstruction Photographs: Before starting construction, take digital photographs of Project site and surrounding properties, including existing items to remain during construction, from different vantage points, as directed by Owner.
 - 1. Flag construction limits before taking construction photographs.
 - 2. Take eight photographs to show existing conditions adjacent to property before starting the Work.
 - 3. Take eight photographs of existing buildings either on or adjoining property to accurately record physical conditions at start of construction.
 - 4. Take additional photographs as required to record settlement or cracking of adjacent structures, pavements, and improvements.

- E. Time-Lapse Sequence Construction Photographs: Take five digital photographs as indicated, to show status of construction and progress since last photographs were taken.
1. Frequency: Take photographs weekly, with timing each month adjusted to coincide with the cutoff date associated with each Application for Payment.
 2. Vantage Points: Following suggestions by Owner and Contractor, photographer to select vantage points. During each of the following construction phases, take not less than two of the required shots from same vantage point each time to create a time-lapse sequence as follows:
 - a. Commencement of the Work.
 - b. Subgrade construction.
 - c. Drainage and sewage improvements.
 - d. Asphalt construction.
 - e. Remaining construction through date of Substantial Completion.
- F. Final Completion Construction Photographs: Take eight color photographs after date of Substantial Completion for submission as Project Record Documents. Owner will direct photographer for desired vantage points.
- G. Additional Photographs: Owner may issue requests for additional photographs, in addition to periodic photographs specified. Additional photographs will be included in the Contract Sum.
1. Three days' notice will be given, where feasible.
 2. In emergency situations, take additional photographs within 24 hours of request.
 3. Circumstances that could require additional photographs include, but are not limited to, the following:
 - a. Special events planned at Project site.
 - b. Immediate follow-up when on-site events result in construction damage or losses.
 - c. Photographs to be taken at fabrication locations away from Project site. These photographs are not subject to unit prices or unit-cost allowances.
 - d. Substantial Completion of a major phase or component of the Work.
 - e. Extra record photographs at time of final acceptance.
 - f. Owner's request for special publicity photographs.

END OF SECTION S-01322