

**LSUHSC – NO DOWNTOWN CAMPUS
ILH Plant Electrical Substation Demolition
New Orleans, Louisiana**

Outline Specifications

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DIVISION 1 - GENERAL REQUIREMENTS

01000 - Summary

Quote your price to furnish all labor, materials, equipment, and expertise necessary for this construction project. The successful bidder will furnish all necessary components and devices as required by the plans and specifications and as required to meet the intent of the specifications for a complete and finished space acceptable for occupancy. This work is to be performed at the **LSUHSC ILH Plant Building at 2021 Perdido St., New Orleans, LA 70130**. The Contractor's price must be firm and not subject to change for a period of thirty days (30) from the date of the bid opening. The University reserves the right to reject any and all bids at its discretion. After the job has been awarded, no changes will be made to any part of the job without written approval from the Construction Coordinator.

01001 – Approved Manufacturers, Materials, Products and Service Representatives

Approved manufacturers, materials, products, and service representatives are not meant to exclude other manufacturers, materials, products, and service representatives. It is meant to set a standard for acceptance. Cited throughout the specifications and on the drawings are approved manufacturers, materials, products and service representatives. This list is not meant to be exhaustive of all manufacturers, materials, products and service representatives required to complete this project.

Manufacturers, materials, products or service representatives not listed as approved or mentioned in the specifications or on drawings as being equal must be submitted for approval, prior to bid. Substitution of a non-approved manufacturer or service company will disqualify the contractor's bid.

01010 – Scope of Work

BASE BID

Provide all labor, material, equipment and expertise necessary to demolish and dispose of all items in the designated areas in accordance with the attached drawings and specifications herein.

1. Demolish substation 4 and 5; remove all electrical conduit and conductors.
2. Demolish all foundations (including footings and grade beams), slab, cmu walls, and all associated items.
3. Supply and Install fill in demolished substation area to bring back up to natural surrounding grade
4. Demolish Fuel Yard housekeeping pads and concrete slab
5. Demolish surrounding concrete Curbs
6. Remove existing light poles from site, demolish concrete pedestal

7. Supply and Install fill in demolished Fuel Yard area to bring back up to natural surrounding grade
8. Re-install black vinyl chain link fence (supply all necessary components to complete installation)

Notice to Successful Bidder: This Project is expected to be completed exactly 60 days after the issuance of the notice to proceed.

01020 - Intent

1. In all areas, the intent of this specification is to provide modified spaces that have a neat, finished appearance. All trim, transitions, caulking, patching, and similar work shall be included unless specifically excluded from this specification.
2. All drawings provided by LSUHSC indicating the location and dimensions of spaces and equipment are meant as a guide to the contractor. It is the responsibility of the contractor to verify all dimensions and job site conditions that may affect the cost of the project. Verification of job conditions and dimensions prior to bid is the responsibility of the contractor.
3. The intended designated representative of the University for this Project is Stacey Coe. Any changes to the scope of work, type or quality of materials, or scheduling must be submitted to the designated representative of the University. Stacey Coe may be contacted via phone at 504-655-0143

Mail should be addressed to:
Stacey Coe, Construction Coordinator
LSU Health Sciences Center
Department of Facility Services
1901 Perdido Street
New Orleans, LA 70112

4. Drawings and specifications are intended to provide the basis for the proper completion of the project suitable for the intended use of LSU Health Sciences Center.
5. Items not expressly set forth but which are reasonably implied or necessary for the proper performance of this work shall be included.
6. All items specified as needing to be “installed”, or “new”, shall be supplied by the contractor unless otherwise specified.
7. The use and/or inclusion of any hazardous materials, including, but not limited to, asbestos, PCB, or any other hazardous substance which is forbidden by state or federal regulations, laws, or codes is expressly forbidden. If these materials are found to be present as part of the material or equipment supplied, or if existing hazardous materials were disturbed as part of the work done, all remedial actions, fines, and expenditures shall be borne by the contractor.
8. All workmanship and materials required to complete this project shall be guaranteed free from defects for a period of one (1) year from date of acceptance of the Project.

01030 – Termination by the Owner for Convenience

1. The owner may, at any time, terminate the Contract for the Owner's convenience and without cause.
2. Upon receipt of written notice from the Owner of such termination for the Owner's convenience, the Contractor shall: cease operations as directed by the Owner in the notice; take actions necessary, or that the Owner may direct, for the protection and preservation of the Work; and except for Work directed to be performed prior to the effective date of termination stated in the notice, terminate all existing subcontracts and purchase orders and enter into no further subcontracts and purchase orders.
3. In case of such termination for the Owner's convenience, the Contractor shall be entitled to receive payment for Work executed along with reasonable overhead and profit.
4. Owner shall not be responsible or otherwise liable for any demobilization costs or incidental or consequential damages resulting from such termination.

01035 – Termination for Noncompliance

LSUHSC may terminate this Contract for cause based upon the failure of the Contractor to comply with the terms and/or conditions of the Contract; provided that LSUHSC shall give the Contractor written notice specifying the Contractor's failure. If within thirty (30) days after receipt of such notice, the Contractor shall not have either corrected such failure or, in the case which cannot be corrected in thirty (30) days, begun in good faith to correct said failure and thereafter proceeded diligently to complete such correction, then LSUHSC may, at its option, place the Contractor in default and the Contract shall terminate on the date specified in such notice. The Contractor may exercise any rights available to it under Louisiana law to terminate for cause upon the failure of LSUHSC to comply with the terms and conditions of this contract; provided that the Contractor shall give LSUHSC written notice specifying LSUHSC's failure and a reasonable opportunity for LSUHSC to cure the defect.

01040 - Coordination of work

1. Coordinate the work of all trades.
2. Work performed outside of the designated project area, or work in the area that will impact adjacent areas, i.e. floor above, floor below, etc., must be scheduled before or after normal working hours (8:00 am- 4:30 PM) or on weekends; must be submitted in writing seventy-two (72) hours in advance and coordinated with the Construction Coordinator.
3. LSU Health Sciences Center is a twenty-four (24) hour a day, three hundred and sixty-five (365) days a year operation. The Construction Coordinator and the Associate Director of Planning and Construction must approve any utility outage and any demolition or renovation work that will interfere with the normal operation of the facility or its personnel.
4. All requests for outages must be submitted in writing seventy-two (72) hours in advance of any planned utility outage. Utility outages may have to be scheduled before or after normal working hours (8:00 am- 4:30 PM) or on weekends. The Construction Coordinator, based on the length and scope of the outage required, will determine the time and date of the requested outage.
5. Prepare coordination drawings for areas where close tolerances are required between

building elements and new installations.

6. Verify location of all utilities i.e. gas, vacuum, air, water, drains, electric, etc and existing conditions. Notify the Construction Coordinator of conditions that may require any deviation from the specified locations shown on the drawings.
7. Verify dimensions on drawings with dimensions at the project site. Do not scale drawings.
8. The University shall give the successful bidder access to the area to be renovated in such a manner that the work will be completed in a timely fashion with a minimum of disruption to the normal flow of business. The timing and sequence of the work will be coordinated by the Construction Coordinator and discussed during the pre-bid and/or pre-construction meeting.
9. The Construction Coordinator will be notified before any work is done which will create noise, smoke and/or dust, or involve soldering, welding, or other heat or flame-producing process. The Contractor will file a Hot Work Permit with LSUHSC seventy-two (72) hours prior to beginning any of the work mentioned in this paragraph. A fine of \$500 per incident will be due from the contractor for each incident where the work performed in the execution of his contract, causes a false alarm on the fire and smoke detection system in the building because the above-mentioned people were not notified before starting the work, and a Hot Work Permit was not filed before starting the work.
10. All work must be performed in accordance with all applicable state, and federal codes, laws, regulations and ordinances. Knowledge of existing codes, laws, regulations and ordinances pertaining to the above work is the responsibility of the contractor.

01060 - Special Project Information

1. The successful bidder warrants to the LSUHSC that the workmen used on the job are regularly employed by his company or his subcontractor's company or companies. Further, the successful bidder warrants that craftsmen skilled in the trades necessary to complete the work will perform all skilled work on the job. Laborers and unskilled workmen will not be used under any circumstances to perform tasks requiring a skill such as carpentry, roofing, or plumbing. The foregoing examples of skilled trades are intended as examples only, and do not constitute a complete list of skilled trades.
2. The University reserves the right to examine the contractor's past payroll records and those of any subcontractor to determine whether the employees being used on the contract are regularly employed. The University also reserves the right to question the use of an employee whom it feels is unskilled or untrained on a task that requires a skill. If the bidder intends to use laborers or unskilled workmen on any aspect of the contract, the bidder must furnish a list of the tasks to be performed by said laborers and unskilled workmen with their bid.
3. If the contractor or subcontractor(s) are required to replace any employees because of their failure to comply with these requirements, any time lost on the job shall be the responsibility of the contractor and shall not be an acceptable reason for requesting extensions of any completion deadlines or waiver of any liquidated damages specified elsewhere in the bid specifications.
4. All equipment, fixtures, and other salvageable materials removed are the property of the University and must be turned over to the University, unless otherwise stated in the bid documents.
5. Where equipment is furnished as part of the bid, the contractor must be equipped to provide

prompt factory authorized and qualified local service. Service manuals for all furnished equipment must be supplied as part of the project. These manuals must include blueprints and schematics of the equipment supplied. The job will not be considered complete until the required manuals and schematics have been supplied to the University.

6. The University reserves the right to reject any and all bids at its discretion.
7. After the job has been awarded, no changes will be made to any part of the job without written approval from the Associate Director of Planning & Construction. The proposed change will be submitted in writing, with a complete breakdown of all material and hours, and the individual cost of each.
8. No notice of completion, delivery memo, invoice, or other document will be signed, or approvals of any type given for any part of the job or delivery of any equipment or materials, except by the Associate Director of Planning and Construction, or his designee, such designation to be made in writing and signed by the Associate Director of Planning and Construction. All work will be done during normal working hours unless the Associate Director of Planning and Construction grants prior written approval or Section 01010 requires that the work be performed after hours.
9. When a discrepancy or ambiguity arises between the written specifications and the drawings, the specifications, shall govern.

01080 - Cutting and Patching

1. Provide cutting and patching work to properly complete the project.
2. Do not remove or alter structural components without written approval.
3. Cut with tools appropriate for materials to be cut.
4. Employ skilled and experienced installers to perform cutting and patching for weather exposed and moisture resistant elements, and sight exposed surfaces.
5. Execute patching to complement adjacent structures/improvements.
6. Patch with materials and methods to produce patch, which is not visible from a distance of five feet.
7. Do not patch in a manner that would result in a failure of the work to perform as intended, decrease fire performance, decrease weather performance, decrease energy performance, decrease operational life, or decrease safety factors.
8. Refinish surfaces to match adjacent finish. For continuous surfaces, refinish to nearest intersection or natural break. For an assembly, refinish entire unit.

01100 - Field Engineering

- 1. All drawings are for reference only. The contractor is responsible for field verification of all dimensions and job site conditions that may affect the cost of the project.**
2. Verify and locate utilities, existing facilities, and equipment.
3. Inspect, examine, and layout improvements, utilities, structures, and components.

01120 - Project Administration and Meetings

1. Arrange for a pre-construction conference prior to start of construction.
2. Owner, the Construction Coordinator, contractor and major sub-contractors shall attend

meetings.

3. Arrange for progress meetings during construction prior to application for payment.
4. Record and distribute minutes promptly.
5. **A site visit is required to submit a bid.** All bidders must visit the site to determine the scope of the job. Failure to do so will be grounds for rejection of the bid. No allowances for previously existing site conditions will be made after the bid. It is the responsibility of the bidder to thoroughly inspect the site to determine any and all factors, which will affect the bid.

01130- Contractor's Construction Schedule

1. Gantt Chart Schedule: Prepare a fully developed bar-chart type contractor's construction schedule. Submit within seven (7) days of written request from the Construction Coordinator.
2. Provide a separate time bar for each significant construction activity. Provide a continuous vertical line to indicate the first working day of each week.
3. Schedule Updating: Revise the schedule after each meeting, event, or activity where schedule revisions have been recognized or made. Distribute updated schedule within seventy-two (72) hours to Construction Coordinator for review.

01140 -Shop Drawings and Submittals

1. Any proposed change order submittals must be submitted in writing, with a breakdown of materials and labor, and the individual cost of each task.
2. Submit a project schedule and update at least monthly.
3. Submit for review three (3) copies of the following:
 - a. Product samples where applicable
 - b. Test reports
 - c. Warranties
 - d. Other submittals as requested by the Construction Coordinator.
4. Clearly indicate any deviations from requirements of the contract documents.

01160 - Quality assurance

1. Comply with applicable codes, regulations, ordinances and requirements of authorities having jurisdiction, including accessibility guidelines where applicable.
2. Provide products of acceptable manufacturers that have been in satisfactory use in similar service for three years.
3. Submit copies of inspection reports, notices and similar documents to the Construction Coordinator.
 - a. Use experienced installers. Furnish evidence of experience if requested.
 - b. Deliver, handle, and store materials in strict accordance with manufacturer's instructions.
 - c. Use of any supplier or subcontractor is subject to owner's approval.
 - d. Engage and pay for testing agencies as required. Refer to individual sections for additional requirements.
 - e. All normal factory warranties will apply. In addition, the successful bidder will warrant all work performed for a year from the date of acceptance by the University. The

contractor must have a service representative who will respond to warranty calls within twenty-four (24) hours of the time the call is placed.

- f. Flammable chemicals are used in the Health Sciences Center. While the work is being done, especially cutting, welding, and painting, adequate ventilation must be provided to prevent the accumulation of smoke, fumes, or vapors, which could be annoying or hazardous. All normal precautions associated with cutting, welding, painting, and other work performed will also be taken to protect the safety of the building, its occupants and the contractor's workers.

01180 - Temporary facilities, utilities, and operations

1. Provide temporary facilities, connections and lighting as required for the proper completion of the project.
2. Provide temporary protection for adjacent areas to prevent contamination by construction dust and debris.
3. Should the area beyond the work area(s) become contaminated with dust or debris as a consequence of the work; the contractor will clean and decontaminate these areas at no additional cost, to the satisfaction of the Construction Coordinator.
4. The contractor will coordinate with LSUHSC maintenance personnel the disconnection of power, water, gas, drain, air and /or other utilities and services in the work area.
5. Provide suitable waste disposal units and empty regularly. Do not permit accumulation of trash and waste materials.
6. Maintain egress within and around construction areas.
7. Maintain fire alarm systems in operation during construction.
8. Provide temporary protection for adjacent construction/utilities. Promptly repair any damage, at no additional cost to the owner.

01200 – Products and Substitutions

1. Requests for substitutions shall be in writing, including reasons. Submit sufficient information for the Construction Coordinator to evaluate proposed substitution.
2. Proposed substitutions shall include complete submittal data, as specified herein, clearly denoting any and all deviations and/or exceptions to the equipment specified.
3. Provide products and materials specified. Request the Construction Coordinator's selection of colors and accessories in sufficient time to avoid delaying progress of the work.
4. Remove and replace work that does not conform to the contract documents at no additional expense to the owner.
5. Where specific materials or equipment are specified, changes or substitutions must be equal or greater in quality and/or quantity, and must meet or exceed all specifications for the item specified. The Construction Coordinator will make the decisions on approvals.

01220 - Installation

1. Inspect substrates and report unsatisfactory conditions in writing.
2. Do not proceed until unsatisfactory conditions have been corrected.
3. Take field measurements prior to fabrication where practical. Form to the required shapes

and sizes with true edges, lines and angles. Provide inserts and templates as needed for work of other trades.

4. Install materials in exact accordance with manufacturer's instructions and approved submittals.
5. Install materials in proper relation to adjacent construction and with proper appearance.
6. Restore items damaged during installation. Replace items that cannot be restored; at no additional expense to the owner.
7. Refer to additional installation requirements and tolerances specified under individual specification sections.
8. All debris, trash and packing materials resulting from the work described above must be removed from University property and disposed of properly by the successful bidder. The use of the University's trash compactors or trash containers is strictly forbidden. A \$100 fine per incident will be subtracted from the total cost of the job if debris generated by this contract is found in the University's trash containers.
9. The work must be complete and ready to be used by the University.
10. University equipment, tools and personnel will not be used for any part of the job, unless such use and the conditions of use are stated in the contract documents.
11. All equipment installed and all other work done must be done in a way that will allow sufficient room for service and maintenance on all equipment, both that installed under this contract and existing. If there are questions and/or problems regarding available space for servicing equipment, they must be addressed to the Construction Coordinator prior to performing the work.

01600- Site Usage

1. Measures of Protection: Provide adequate barricades and other necessary measures to ensure the safety to all persons and property adjacent to the site throughout the life of the contract.
2. The contractor will follow all applicable federal, state and local regulations, including OSHA, in the course of all work. The contractor will also comply with the LSUHSC New Orleans Contractor Safety Guidebook and the policies it references. The Guidebook can be found at <http://www.lsuohsc.edu/admin/pfm/ehs/docs/csg>.
3. Store materials and construction equipment at the site in areas designated or in areas, which will not interfere with adjacent areas, construction operations, site access, or endanger LSUHSC personnel, equipment or property.
4. Schedule delivery to minimize long-term storage at the site and to prevent overcrowding of construction space.
5. Schedule daily clean-up of the worksite to prevent safety hazards and the accumulation of dust and debris.
6. Access to site: Workers are to remain in designated work/staging area. Workers are not to wander about the site.
7. Parking: There is no parking provided to the contractor.

01940 – Project Closeout

1. Prepare punch-list of remaining work for review by the Construction Coordinator.
2. Complete punch-list items promptly at no additional expense to the owner.

3. Remove temporary facilities and provide final cleaning and touch-up.
4. The successful bidder shall be responsible for any alterations to the building, grounds, or property of LSUHSC New Orleans. Alterations shall be made only when necessary for the completion of the work specified and will be discussed beforehand with the Construction Coordinator. The finished work shall match the look, style, color, and function of the building.
5. The job must be completed in 60 calendar days from the date of the notice to proceed, or the successful bidder will pay damages of five hundred dollars (\$500) per calendar day over the specified time.

DIVISION 2 – SITE WORK

02010 - Demolition General Conditions

The General Conditions, Amendments, associated drawings and Division 1 of the Specifications apply to all work under this Division.

02020 - Scope

Work required under this Section consists of all demolition required necessary to complete the work indicated on drawings and/or described in these Specifications.

Without restricting volume or generality of above, work to be performed under this section shall include, but is not limited to the following:

Part I – General

➤ Submittals

- A Construction Equipment List shall be submitted within 7 days of the request of the Construction Coordinator.
- Contractor shall record Existing Conditions prior to starting work in accordance with the paragraph entitled, “Existing Conditions,” of this section.
- Contractor shall submit a detailed Demolition Plan of the work procedures and safety procedures to be used throughout the project.
 - Demolition and safety plans shall be submitted and reviewed by Construction Coordinator prior to beginning work.
- Pre-demolition Photographs: Show existing conditions of adjoining construction and site improvements, including finish surfaces that might be misconstrued as damage caused by demolition operations. Submit before work begins.

➤ Disconnecting Utilities

- The Contractor will disconnect and cap utilities serving each structure to be demolished prior to the start of demolition.
- The Contractor shall obtain and provide written releases for each utility or service connection within the structure i.e. water, gas, electricity, sewer, etc., and ensure that the respective connections have been removed and sealed or plugged.

➤ Precautions Against Movement

- Shoring and bracing or other support shall be provided as necessary to prevent movement, settlement, or collapse of a structure to be demolished and of facilities to remain.

- **Rodent And Vermin Extermination**
 - Rodents and vermin shall be exterminated in the buildings to be demolished in accordance with local health laws and regulations. Exterminator shall be licensed or certified by the state or local government to provide extermination services.

- **Construction Equipment List**
 - A Construction Equipment List of all major equipment to be used in this section shall be submitted to the Construction Coordinator prior to construction.

- **Demolition Plan**
 - Contractor shall prepare and submit a detailed Demolition Plan of the work procedures to the Construction Coordinator prior to the commencement of any demolition work. The plan shall be according to OSHA regulations 29 CFR 1926, Subpart T.

- **Hazardous Waste Disposal**
 - The Contractor shall be responsible for the proper management and disposal of all debris and waste generated from demolition of the structure in accordance with all applicable federal, state, and local regulations, codes, and authorities having jurisdiction.

- **Safety Plan**
 - Contractor shall submit a Safety Plan outlining the safety precautions to be taken for each phase of the demolition.

- **Existing Conditions**
 - Existing Conditions shall be recorded by the Contractor, in the presence of the Construction Coordinator, showing the condition of structures and other facilities adjacent to areas of alteration or removal. As applicable, such record shall contain the elevation of the top of foundation walls, the location and extent of cracks and other damage, and description of surface conditions that exist prior to the start of work. Copies of the record shall be submitted and the stated conditions shall be verified before starting work.

Part II – Products

- **Fill Material**
 - Fill material shall conform to the definition of satisfactory soil material as defined in AASHTO M 145. In addition, fill material shall be non-expansive, free from roots and other organic matter, trash, debris, frozen materials, and stones larger than 2 inches in any dimension.

Part III – Execution

➤ Concurrent Earth-moving Operations

- Excavation, filling, and other earth-moving operations that are sequential to demolition work shall not be started in areas occupied by structures to be demolished until all demolition in the area has been completed and debris has been removed.

➤ Dust Abatement

- Dust and dirt rising during demolition operations shall be effectively controlled by water sprinkling or other approved method.

➤ Buildings

- Demolition shall proceed in a systematic manner from the top of the structure to the ground.

➤ Below-grade Construction

- Foundations, basement concrete slabs on ground, footings, and other below-grade construction shall be demolished and removed to a depth of not less than 12 inches below the existing grade.

➤ Filling Basements And Voids

- Basements and voids, resulting from the demolition of structures, shall be completely filled with acceptable, non-expansive fill material and graded.
- Prior to filling, basements and voids shall be free of standing water, frost, frozen material, trash, and debris.
- Fill material shall be placed in horizontal layers not to exceed 12 inches in loose depth. Each layer shall be compacted to a minimum of 95 percent density of the maximum density as determined by AASHTO T 180, Method D, at optimum moisture content.

➤ Protective Measures

- Existing construction shall not be disturbed beyond the extent indicated or necessary for installation of new work. Temporary shoring and bracing shall be provided for support of building components to prevent settlement or other movement.
- Protective measures shall be provided to control accumulation and migration of dust and dirt in all areas of work. Dust, dirt, runoff, and debris shall be removed from the areas of work daily.
- Use methods to preserve the integrity of adjacent structures in close proximity, or abuts the fabric of the structure being demolished. Manual or hand demolition methods may be required.

➤ Scrap Metal

- Scrap metal shall become the Contractor's property and shall be removed from the site as it accumulates.

➤ **Additional Site Work**

- Fencing, gates, and other miscellaneous items shall be removed. Gates shall be removed as whole units. Chain link fencing shall be cut into fabric lengths of 25 feet and stored in rolls off the ground.

➤ **Disposal Of Removed Materials**

- Contractor shall remove debris, rubbish, runoff, and other materials resulting from demolition operations. Removed materials shall not be stored on the project site nor sold on Owner's property.
- Waste materials, including excavated material classified as unsatisfactory soil material, trash, and debris, shall be removed from Owner's property and legally disposed of by the Contractor.

02050 - Demolition

1. Protect any existing improvements which are to remain. Repair any damage done to streets, sidewalks, or other improvements which are to remain.
2. Except for items or materials indicated to be reused or otherwise indicated to remain the property of the Owner, demolished materials shall become the Contractor's property and shall be removed from the site with further disposition at the Contractor's option.
3. Submit proposed methods and operations of demolition to the Construction Coordinator for review prior to start of work. Include a detailed sequence of demolition and removal work with start and end dates for each activity, pedestrian and/or vehicular traffic safety plan, coordination schedule of proposed utility service interruptions/connections, general and close proximity demolition plan/strategy, and site safety/protection plans.
4. It is the Contractor's responsibility to record, photograph or videotape, sufficiently and in detail, any and all existing conditions of adjoining construction and site improvements that might otherwise be misconstrued as damage caused by demolition operations.
5. Demolish existing building in a systematic manner from the top of the structure to the ground. Demolition works above each floor or tier shall be completed before the supporting members on the lower levels are disturbed. Buildings or the remaining portions thereof, not exceeding 85 feet in height may be demolished by the mechanical method of demolition with prior approval.

02060 - Quality Control

1. Engage an experienced firm that has successfully completed demolition work similar to that indicated for this Project.
2. Comply with governing EPA notification regulations before starting demolition. Comply with hauling and disposal regulations of authorities having jurisdiction.

3. Attend a pre-demolition conference at the project site before beginning demolition operations.
 - a. Review methods and procedures related to demolition including, but not limited to, the following:
 - Inspect and discuss condition of construction to be demolished.
 - Review and finalize demolition schedule.
 - Review areas where existing construction is to remain and requires protection.
 - Safety, site usage and staging.

02062 - Job Conditions

1. Conduct demolition operations and the removal of debris and runoff to ensure minimum interference with roads, streets, walks, and other adjacent occupied or used facilities. Do not close or obstruct streets, walks or other occupied or used facilities without permission from authorities having jurisdiction. Provide alternate routes around closed or obstructed traffic ways if required by governing regulations.
2. Ensure safe passage of persons around area of demolition. Conduct operations to prevent injury to adjacent facilities, and persons. Erect plywood and visqueen barriers on wood framing as necessary to control the spread of dust and dirt, protect the existing improvements from damage, and to ensure the safety of persons around the area being demolished.
3. Use demolition methods which preserve the structural integrity of adjacent structures, and utilize careful removal and handling of building fabric abutting adjacent structures not scheduled for demolition.
4. Promptly repair damages caused by demolition operations to adjacent facilities, structures, or improvements at no cost to the Owner.
5. Maintain existing utilities indicated to remain, keep in service, and protect against damage during demolition operations.
6. Do not interrupt existing utilities serving occupied or operating facilities, except when authorized in writing by the Construction Coordinator and authorities having jurisdiction. Provide temporary services during interruptions to existing utilities, as acceptable to the Construction Coordinator and to governing authorities.
7. Provide not less than 72 hours' notice to the Construction Coordinator if shutdown of service is required during changeover.
8. Clean adjacent improvements of dust, dirt, runoff, and debris caused by demolition operations, as directed by the Construction Coordinator. Return adjacent areas to condition of surrounding existing areas prior to the start of the work.
9. Use water sprinkling, temporary enclosures, and other suitable methods to limit dust and dirt rising and scattering in air to lowest practical level. Comply with governing regulations pertaining to environmental protection.
10. Do not use water when it may create hazardous or objectionable conditions such as ice, flooding, and pollution.
11. Remove from site debris, rubbish, and other material resulting from demolition operations. Burning of removed materials from demolished structures will not be permitted on site. Transport materials removed from demolished structures and dispose of off-site in accordance with governing regulations.
12. Notify the Construction Coordinator of discrepancies between existing conditions and Drawings/Specifications before proceeding with demolition.

02070 - Demolition- Special Instructions

1. Protect existing structures, which are to remain, completely remove existing concrete, flooring, and base, topping, finishes and other items in area to be renovated under the Contract, to the extent required to meet the intent of the specifications and drawings. Repair any damage to existing structures caused by over demolition.
2. Include incidental demolition as indicated on the drawings, as necessary to complete the work, and/or as appropriate to meet the scope and intent of the contract.
3. The Contractor shall inspect the complete demolition and layout to determine the nature and location of all conflicts between new and existing construction and correct accordingly.
4. Properly protect all pipes, conduit, wire, equipment and similar existing items, which, are not noted to be demolished or removed.
5. Maintain existing utilities and building services not slated for demolition: keep in service and protect against damage during demolition operations.
6. Do not interrupt existing services serving occupied or used facilities except when authorized by the Construction Coordinator. Provide temporary services as necessary during interruption.
7. Remove abandoned piping, conduit, and similar utility systems, which are uncovered in the course of demolition and removal. Cap and seal ends where systems extend outside the construction area.
8. Seal as required by NFPA, Life Safety Codes all openings around pipes, ducts, conduits and similar utility systems, which extend through partitions, walls and floors to outside the construction area. Similarly seal openings in remaining walls, partitions, and floors, which result from removals.
9. Demolish existing work to be removed completely and remove from site. Use such methods as required to complete within the limitations of governing specifications and requirements.
10. Proceed to demolish in a systematic way.
11. Proceed to demolish in accordance with the guidelines set per plans and specifications.
12. All debris shall be removed from the site by the Contractor and disposed of in a legal manner and in accordance with all regulating authorities.
13. Conduct demolition operations and the removal of debris to ensure minimum interference with adjacent properties and operations.
14. Ensure safe passage of persons around areas of demolition. Conduct operations to prevent damage or injury to adjacent structures, equipment, facilities, and persons.
15. Provide interior and exterior shoring, bracing, or support to prevent movement or collapse of structures to be demolished and to adjacent structures that remain.
16. Clean adjacent structures and equipment of dust, dirt, runoff, and debris caused by demolition operations to the satisfaction of the Construction Coordinator.
17. Return adjacent areas such as streets, sidewalks, and landscaping areas to the condition that existed prior to the start of the work unless otherwise specified.
18. Use water sprinkling, temporary enclosures, and other suitable methods to limit dust and dirt rising and scattering in the air to lowest practical level. Comply with governing regulations pertaining to environmental protection.
19. No vending of material is permitted on the project site.

02210 – Site Restoration General Conditions

- A. The General Conditions, Amendments, associated drawings and Division 1 of the Specifications apply to all work under this Division.

02220 - Scope

- A. Site preparation required for work under this Section includes, but is not necessarily limited to, replacement of undesirable areas of existing sub-grade, grading of sub-grade to provide site drainage, and installation of seeding.
- B. Wherever reference is made to Standard Specifications, such reference is to the 2000 Edition or latest revision thereof of “Standard Specifications for Roads and Bridges,” by the Office of Highways, Department of Transportation and Development, State of Louisiana.

02230 – Fill Material

- A. Fill material for soft spots, if required, shall be crushed limestone or recycled concrete.

02240 – Sub-grade Preparation

- A. Grading of the existing sub-grade surface shall be as necessary to bring the grade to match existing conditions at the property boundaries. After the site has been graded, the area shall be proof rolled sufficiently to detect any soft spots in the sub-grade. Soft spots shall be completely removed to the satisfaction of the Construction Coordinator. Excavated areas resulting from soft spots shall be backfilled with crushed limestone or recycled concrete.
- B. Do not place, spread, or roll any material during unfavorable weather.
- C. Do not resume operations until moisture content and fill density are satisfactory.
- D. Provide berms or channels to prevent flooding of sub-grade; promptly remove all water collecting in depressions.
- E. Where soil has been softened or eroded by flooding or placement during unfavorable weather, remove all damaged areas and re-compact as specified.
- F. Provide and maintain at all times during construction, ample means and devices with which to promptly remove and dispose of all water from every source entering the excavations or other parts of the work.

02250 – Grading

- A. Perform all grading required to drain properly. Finished slopes shall be free from irregularities, hollows and depressions.
- B. After grading is completed and the Construction Coordinator/Engineer has finished inspection, no further filling or grading will be permitted except with approval.

- C. Use all means necessary to prevent the erosion of freshly graded areas during construction and until such time as permanent drainage and erosion control measures have been installed.

02300- Wire Mesh (Chain Link) Fencing

PART 1 – GENERAL

1. This specification covers fencing materials for a complete PVC coated (black) over galvanized steel wire fence system, including gates, accessories and installation. The fencing shall comply with the standards of the Chain Link Fence Manufacturer’s Institute for “Galvanized Steel Chain Link Fence Fabric”, and “Industrial Steel Specifications for Fence-Posts, Gates and Accessories”, and as herein specified. The installer must examine the conditions under which the fence and gates are to be installed. Notify the Construction Coordinator in writing of conditions detrimental to the proper and timely completion of the work. Do not proceed with the work until unsatisfactory conditions have been corrected.
 - All accessories shall be hot-dip galvanized in accordance with ASTM A 123 or as specified. Hardware coatings shall conform to ASTM A 153. Steel pipe and other framework shall be hot-dip galvanized in accordance with ASTM F 1083 and ASTM F 1043. Strength requirements for pipe shall also conform to ASTM F 1043. The product of the yield strength and section modulus shall not be less than that for pipe conforming to ASTM F 1083. In accordance with ASTM F 1043 apply supplemental color coating of 10 to 15 mils of thermally fused PVC in black color to match fabric on all fence fabric posts and framework, and accessories.
 - All exposed system parts shall be zinc galvanized prior to PVC coating. Color shall be black.
 - PVC coating shall be thermally fused and adhered to a primer, which is thermally cured onto the galvanized steel core wire.
 - PVC coating shall be applied in a continuous process.
 - All cut ends shall be coated with vinyl at the factory before shipping.
 - Product shall be new from recognized, reputable manufacturers. The manufacturers shall have a minimum of 2 years’ experience. Used, rerolled, or re-galvanized material is not acceptable. Fencing shall be provided as a complete unit produced by a single manufacturer, including necessary erection accessories, fittings, and fastenings.
 - Both sides of corner posts shall be equipped with horizontal brace rails at the top and at mid-height of fence and adjustable 3/8” diameter truss rods in the upper and lower panels formed by brace rails. Install braces so posts are plumb when the diagonal rod is tightened.
 - Concrete footings are required for fence posts. Concrete shall consist of “Portland Cement” complying with ASTM C 150, aggregates complying with ASTM C 94, and clean water. Mix materials to obtain concrete with a minimum 28-day compressive strength of 3000 psi. Concrete shall be thoroughly worked into post holes leaving no voids.
 - Framework: Framework strength and coating shall be in accordance with ASTM F 1043.

- Grade A Pipe, hot-dip galvanized and PVC coated Schedule 40 pipe conforming to ASTM F 1043 Group IA.
- Grade B Pipe, manufactured by cold-rolling and radial frequency welding, the steel hot dipped galvanized and PVC coated shall conform to ASTM F 1043 Group IC with minimum yield strength of 50,000 PSI. Exterior and interior coatings shall be in accordance with ASTM F 1043.
- ‘C’ Post, manufactured by cold forming steel, hot dipped galvanized and PVC coated shall conform to ASTM F 1043 Group II with minimum yield strength of 50,000 PSI.
- PVC (polymer) coating shall be 10 mils minimum in accordance with ASTM F 1043, color conforming to ASTM F 934 (black).
- Performance: All framework shall meet the following performance in accordance with test method ASTM B 117 (Salt Spray Test).
 - Exterior: 1000 hours with maximum 5 % red rust.
 - Interior: 650 hours with maximum 5 % red rust.
- Wind loads: Post shall withstand 74 M.P.H. minimum wind load

2. Fittings and Accessories

- Post Caps: Pressed steel or malleable iron, designed as a weather tight enclosure for tubular posts. Provide one cap for each exposed tubular post.
- Tension Bar (for mesh sizes 1” x 1” and larger): Tension bands shall be heavy – pressed steel, ¾” x 1/10” nominal, used to secure tension bars to tubular, end, corner and gate post. Intervals of spacing not to exceed 12”.
- Top Rail: Provide continuous top rail securely fastened to fence fabric. The top rails shall run continuously from corner post to corner post, through post tops, with expansion couplings. Also, provide Stretcher Bars (two for each corner post) with the full height of the fabric and a cross-section of 3/16” x 3/4”.
- Tie and Bracket Combinations: The tie wires used shall be U-shaped wire, conforming to the diameter of pipe to which it is attached, clasping pipe and fabric firmly with ends twisted at least two (2) full turns. The wire ties used for tying the fabric to the line posts shall be coated 9-gauge galvanized wire ties spaced 12” O.C. For tying the fabric to the tension wire, use coated 11-gauge galvanized hog rings spaced at 18” O.C.
- Tension Wires: All tension wire provided should be coated 7-gauge galvanized coiled spring wire, which shall run continuously from corner post to corner post. All fittings must be ASTM A-153 malleable steel construction.

PART 2 – EXECUTION

2. INSTALLATION

- Installation of the framework components shall be in accordance with ASTM F 567 when applicable and as specified herein.
- Installation of wire fabric shall be in accordance to manufacturer’s recommendations.
- Coordinate fence construction with other trades where applicable.
- Install the smooth face of the fabric on the secure side of the fence. Install the upper and lower fence fabric sections in a manner so as not to create a hand or toe hold at the horizontal joint between the panels.

- Site Preparation: Prior to the fence installation, perform all necessary grading and cleaning, on both sides of the fence line, to complete the installation.
 - Grading shall be done in such a manner as to provide a straight flat and level surface (where applicable). Soil fill shall be thoroughly compacted.
 - All existing utilities shall be located prior to starting any excavation operations.
 - Erect the fencing in straight lines between angle points. Erect framework in accordance with ASTM F 567 and as approved by the Owner.
- Post Spacing: Space post equal distance in the fence line to a maximum of 10' on center.
- Post Holes in Solid Rock or Concrete: Drill holes into solid rock or concrete ½" wider than the pipe diameter, and 18" deep for end, corner, and gate posts; and for line posts, 12" deep – Owner approval shall be required prior to installation.
- Half-fill the void with non-shrinkable grout and force the post to the bottom of the hole, leaving no voids. Crown the grout to shed water. The use of sleeves in new concrete is recommended.
- Concrete Mix: Shall be in accordance with ASTM C 94 with maximum ¾" aggregate, and shall have minimum compression strength of 3000 psi at 28 days. Concrete shall be thoroughly worked into the post holes leaving no voids. Allow concrete to cure a minimum of seven (7) days before installing fence fabric or fittings. The top surface of the post hole concrete shall have a crown water shed finish.

3. CLEANING

- Clean-up: Upon completion of the installation, clean up all waste material resulting from this construction.

END OF SECTION

DIVISION 3 – CONCRETE (– Not included –)

DIVISION 4 – MASONRY (– Not included –)

DIVISION 5 - METALS (– Not included –)

DIVISION 6 - WOOD AND PLASTICS (– Not included –)

DIVISION 7 - THERMAL AND MOISTURE PROTECTION (– Not included –)

DIVISION 8 – DOORS AND WINDOWS (– Not included –)

DIVISION 9 – FINISHES (– Not included –)

DIVISION 10 - SPECIALTIES (– Not included –)

DIVISION 11 - EQUIPMENT (– Not included –)

DIVISION 12 - FURNISHINGS (– Not included –)

DIVISION 13 - SPECIAL CONSTRUCTION (– Not included –)

DIVISION 14 - CONVEYING SYSTEMS (– Not included –)

DIVISION 15 – MECHANICAL (– Not included –)

DIVISION 16 – ELECTRICAL (– Not included –)

- End of technical specifications -