

APPENDIX - D

GENERAL SPECIFICATIONS
FOR
RESIDENTIAL UNDERGROUND
ELECTRICAL CONSTRUCTION

Revised 1/95

GENERAL SPECIFICATIONS
FOR
UNDERGROUND ELECTRICAL CONSTRUCTION

ARTICLE 1 - GENERAL REQUIREMENTS

The Contractor shall furnish and install all labor and material necessary to provide and install the complete electrical portion of this contract, including all materials and electrical equipment as shown on the plans. It is the intention of these specifications that all electrical systems be furnished complete with whatever necessary items are required to produce a satisfactory installation in a working order. The Contractor shall be responsible for bringing to the attention of LUS and the Developer any shortcomings of the design, or thereby, shall be responsible in full to meet the conditions set forth, that being, the system is to be in a satisfactory working order.

All electrical equipment shall be installed in accordance with the instructions of the manufacturers. The work shall be done in strict compliance with state and local ordinances governing this class of work. The Contractor shall visit the job site and install his work to meet existing conditions found at the site. The Contractor shall acquaint himself with all existing factors and conditions which affect his work. Failure to do so shall not relieve him of meeting the responsibility to install the work correctly.

The Contractor shall protect the entire electrical system from injury on the project until final acceptance. Failure to do so shall be sufficient cause for LUS to reject any equipment.

The "LUS Procedures for Underground Contractors" are a part of these specifications, and the Contractor shall be bound to the provisions thereof.

ARTICLE 2 - SCOPE OF WORK

The work under this contract shall consist of furnishing labor, equipment and associated materials necessary for the following project:

Name of Subdivision

A pre-construction conference will be held at the LUS Engineering Building (1314 Walker Road) and will be scheduled at a later date.

ARTICLE 3 - CONSTRUCTION FORCE

The Contractor shall provide and maintain in full operation at all times during the performance of the contract a sufficient crew of helpers, linemen and a foreman to execute the work with dispatch. The Contractor shall adhere to the requirements set forth in "L.U.S. Procedures for Underground Contractors", that being, the Contractor shall provide an approved foreman from the list of such who shall be employed full time by the Contractor and who shall be on the job during all working periods. The foreman shall also be on the job in the event the Contractor should hire a subcontractor.

The Contractor shall be responsible for maintenance and repair of all equipment installed by him or his subcontractor which fails due to substandard workmanship.

At the request of LUS, the Contractor shall provide to LUS a list of names and qualifications of all personnel to be used on the job including any subcontractors. Any personnel who are not qualified to perform the work properly shall be replaced with qualified personnel. The bidder shall also furnish the name of the foreman to supervise the work in the following blank:

FOREMAN'S NAME: _____

ARTICLE 4 - EXPERIENCE

The Contractor shall have a minimum of five (5) years experience in the construction of underground electric distribution and this experience shall also include working on energized underground electric distribution lines of at least 13.8 kV. The Contractor's name shall appear on the approved underground contractors list provided to the Developer by LUS.

Should the Developer desire to hire a contractor whose name does not appear on LUS's approved contractors list, he shall immediately notify the Electric Operations Department (LUS) and request certification of said contractor prior to said contractor making any high-voltage terminations at any locations. Upon written approval from the Electric Operations Department (LUS), the said contractor shall be allowed to proceed with the required terminations on the project.

For non-commercial projects, the Contractor shall be pre-qualified, prior to bidding, as described in "LUS Procedures for Underground Contractors."

ARTICLE 5 - DRAWINGS FURNISHED BY THE DEVELOPER

The attached drawings are intended to describe and illustrate the desired layout of the project. The dimensions shall be modified only if a conflict in construction arises and LUS agrees such modifications are necessary.

ARTICLE 6 - QUANTITIES

Quantities of materials will be measured by an inspector furnished by the Developer to ensure that the items called for on the plans were actually installed.

ARTICLE 7 - APPROVALS FOR CHANGE

At no time shall the Contractor deviate from the intent of the drawings or these specifications unless these deviations are approved in writing by LUS.

ARTICLE 8 - FAMILIARITY WITH CONDITIONS

Prior to the submission of the bid proposal, the Contractor shall make and shall be deemed to have made a careful examination of the project site, the plans, and specifications. The Contractor shall become informed as to the location and nature of the proposed construction, the kind and character of soil and terrain to be encountered, the kind of facilities required before and during the construction of the project, general local conditions and all other matters that may affect the cost and the time of completion of the project.

Any records of sub-surface conditions, water records, gas records, telephone records, other utility records, Cable TV records, or other observations which may have been made by the Developer on the drawings, have been made with reasonable care and accuracy. The location of such records may be made available to the Contractor for his information by contacting the company in question: however, there is no expressed or implied guarantee as to the accuracy of the records nor any interpretation of them. The Contractor further agrees that the contract prices are based on his own knowledge and judgment of the conditions and hazards involved, and not upon any representation of the Developer's drawings. The Developer assumes no responsibility for any understandings or representations made by any of its representatives prior or during execution of the contract, unless such understandings or representations are expressly stated in the contract, and the contract expressly provides that the responsibility, therefore, is assumed by the Developer.

ARTICLE 9 - CODES AND PERMITS

The work shall be performed in accordance with the National Electric Code, the National Electrical Safety Code, editions in effect at the time of construction. Said work shall also comply with all local codes and ordinances. The Contractor shall be responsible for complying with applicable rules and regulations of the Utility Power Company governing the service, and obtain and bear the cost of all permits and inspections required.

ARTICLE 10 - STANDARDS

All materials furnished under this contract shall be designed, constructed and rated in accordance with the latest applicable NEMA, ANSI and ASTM standards, and shall pass tests as recommended therein.

ARTICLE 11 - WORKMANSHIP AND MATERIALS

The workmanship shall conform to the best accepted electrical construction practice. Should it become evident that during the course of construction that the electrical items indicated on the plans, the routing of raceways, or the wiring is for any reason undesirable, the Contractor shall immediately bring the situation to the attention of LUS for a decision. The Contractor shall be responsible for installing the proper materials as described by the drawings and specifications. All materials furnished for this project shall be new, undamaged, and bear the label of the Underwriters' Laboratories, Inc.

ARTICLE 12 - GUARANTEE

The Contractor shall guarantee new materials and workmanship for one full year after formal acceptance of the project. The Contractor will replace defective material and repair all workmanship defects promptly, and absorb all costs. Lamps and fuses burned out in normal usage are exempt after acceptance.

ARTICLE 13 - MATERIALS AND APPROVALS

The Contractor shall base his proposal on materials herein specified. Reference to specific manufacturers or trade names is not intended to limit or indicate preference to specific manufacturers, but to indicate a standard of quality. Written approval from LUS is required on all substitutions prior to installations.

ARTICLE 14 - SUBMITTALS

The Contractor shall submit the quantity of copies of shop drawings of the materials called for in the section titled "Detailed Specifications". LUS's approval of shop drawings shall not relieve the Contractor from the responsibility of incorrectly figured dimensions or any other errors that may be contained in these drawings. The omission from the shop drawings, or specifications, even though approved by LUS, shall not relieve the Contractor from furnishing and erecting same.

The Contractor shall be responsible to meet the specifications, as also the intent of the specifications. Deviation from the specifications in any form, whether reviewed by LUS in the shop drawings or not, shall imply that the Contractor is intending to present a substitution to the materials specified. The Contractor shall give specific written notice of each variation that the shop drawings may have from the requirements of the specifications, and, in addition, shall cause a specific notation (in a very clear manner) to be made on each shop drawing for review of each variation by LUS.

ARTICLE 15 - MATERIALS, DELIVERY AND STORAGE

Deliver materials in manufacturer's original package and store on skids so that materials are off the ground, and so that product labels are exposed for easy inspection. Remove all wrappings from street light standards.

ARTICLE 16 - COORDINATION OF WORK

The Contractor shall inform the Electric Operations Department (LUS @ 291-5701) each day of his work location and job number before proceeding to work, each time the Contractor moves into a different area, and when the Contractor leaves the location for the day. In the event that the Contractor causes a fault on the electrical system, the Contractor shall immediately notify the dispatcher for LUS operations (291-5701). The Contractor shall not intentionally disconnect electric service to any customer, nor shall he operate any devices owned by LUS.

ARTICLE 17 - MAINTENANCE

The Contractor shall perform maintenance work which shall include straightening of poles, resetting anchors which do not hold properly, filling of settled trenches or excavations, and repairing the damage caused by such settlement, and other necessary repairs and maintenance. Written notice shall be given by the Developer when maintenance is deemed necessary. In the event that the repairs are not made within a reasonable time from the date of notice, the Developer may have the work performed by other parties. The cost arising from such repairs shall be paid by the Contractor.

ARTICLE 18 - TESTING

The Contractor shall test the completed installation for operation, continuity, grounds and insulation resistance in accordance with NEC. The test shall be made between all conductors and all conductors and ground. The Contractor shall perform the tests as called for in the section titled "Detailed Specifications".

Tests shall be performed in the presence of LUS and written test data submitted upon completion for approval. If in the process of testing, the minimum standards required are not met, the Contractor shall replace the conductors at no extra cost to the Developer. Care shall be exercised not to damage electrical equipment while testing.

ARTICLE 19 - PAYMENT

The Contractor may invoice the Developer for work performed on a monthly basis. The work performed shall meet the approval of LUS. The owner shall process payment after verification of the invoice.

ARTICLE 20 - PROPOSAL BIDS ON UNIT BASIS

1. N/A

ARTICLE 21 - WORK SCHEDULE

The Contractor shall only work during regular working hours of LUS Field Operations Section.

ARTICLE 22 - WORK ON ENERGIZED CONDUCTORS AND EQUIPMENT

The Contractor shall treat all electrical systems as energized and protect the system and workers accordingly. He shall also comply with the latest safety regulations and practices set forth by the following:

1. The National Electrical Safety Code
2. The National Fire Protection Association
3. The Occupational Safety And Health Association
4. The City Of Lafayette