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OTIS

~ ELEVATORS ~

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OTIS ELEVATOR COMPANY

SPECIFICATIONS FOR
SINGLE WRAP TRACTION GEARED ELECTRIC ELEVATOR INSTALLATION

CONSISTING OF
ONE (1) ELECTRIC PASSENGER ELEVATOR
FOR
COLORED HOSPITAL,
HOUSTON, TEXAS.

MAURICE J. SULLIVAN, ARCHITECT.

Houston, Texas, Jan. 4, 1926.

The elevator is to be installed in accordance with the following details:

DIMENSIONS
AND TRAVEL

Size of the car is to be about 4' 11" X 7' 0".

The car is to travel from first to third floor, about 22' 0" stopping at three floors, and serving three openings.

LOAD AND
SPEED

The elevator is to lift a load of 1800 lbs. in addition to weight of the car, and with 1900 lbs. is to travel at a speed of 100 feet per minute with a constant potential at the motor of 220 volts, 3 phase, 60 cycles, alt. current.

CAR

The apparatus as herein described cannot be operated by direct current

The cab is to be built of ornamental iron in accordance with Otis design No. 1, finished in Arco. The cab will be equipped with one metal collapsing gate equipped with an electric contact which will render the elevator inoperative, unless the gate is closed.

OPERATING
DEVICE

The operating device provided in the car is to consist of a car switch giving the attendant complete control of the operating mechanism and brake, as hereinafter described.

ANNUNCIATOR An electric Locdrop annunciator, having a push button at each landing, is to be provided by us.

LIGHT FIXTURE A suitable light fixture is to be furnished in the car and connected by us to Underwriters' outlet (location of which shall be fixed by us to conform to our layout) provided by owner at center of hatchway.

GUIDE POSTS AND GUIDES We are to furnish guide posts and guides for the car consisting of iron brackets and planed steel tees located at sides of hatchway

We are to furnish guide posts and guides for the counterweight consisting of iron brackets and planed steel tees.

FOUNDATIONS The machine to be placed directly over the hatchway, upon steel beams furnished in place by us, suitable floor to be furnished by owner.

ELECTRIC POWER CONNECTIONS Connections from the power mains to the terminals on our controller, including a fused main line switch located at a point adjacent to elevator controller, shall be furnished in place by the owner together with any cutouts, circuit breakers, lightning arresters, phase reversal switches or other devices necessary to meet his or local requirements.

The electric power company usually brings its wires inside the walls of the building at the point nearest its mains without charge.

ROPES The elevator is to be provided with suitable hoisting and counterweight ropes.

SPECIAL ITEMS A reverse phase relay will be provided on the control board so designed as to operate in case of phase reversal, phase failure or low voltage and cut off current from the elevator and apply the brake.

We will furnish and install three sets of enclosure fronts, each front consisting of a pair of hollow metal doors complete with bucks, sills, headers, and hangers with polished wire glass in the upper panels of each door. The finish to be in Duco.

We will install on each of the three enclosure doors, a door closer so arranged that the door may be opened manually by the operator in the usual manner but upon being released closes automatically and quietly, eliminating all noise due to slamming. In addition to the door closers, interlocks will be provided so arranged that the car cannot be started until the door is closed and locked, preventing the operation of the car unless all doors are closed.

MACHINE
GEARING
D THRUST
BEARINGS

The machine shall be of the OTIS SINGLE WRAP TRACTION GEARED TYPE of the highest efficiency. The gear members are of steel and phosphor bronze, and run in oil in an oil-tight housing, the thrust being taken up by ball bearings which are backed by self-aligning thrust blocks. The traction driving sheave, gearing, motor and brake are mounted on a heavy continuous cast iron bed plate.

TRACTION
DRIVING
SHEAVE

The traction driving sheave around which pass the hoisting ropes is made of the best grade of Semi-Steel, accurately turned and provided with grooves of special design, to maintain continually constant traction, and is driven directly from the worm gear through a spider, which is mounted on a heavy steel shaft, and is securely bolted to both the worm gear and sheave.

An inherent safety feature of the traction drive is the reduction of the tractive effort, should either the car or counterweight land upon the buffers.

BEARINGS

The machine shall be provided with dust-proof bearings, having large bearing surfaces and provided with suitable means for ample lubrication.

BRAKE

The brake shall be of the ELECTRO-MAGNETIC TYPE, spring actuated and electrically released. The brake shoes are applied to the brake wheel simultaneously and with equal pressure by a pair of powerful helical springs.

MOTOR

The motor shall be of Otis design, for use with Otis Single Wrap Traction Machines, developing high starting torque, with low starting current and built to meet fully the exacting requirements of modern elevator service. The bearings are of the self-aligning type, and are provided with oil rings for lubrication.

CONTROLLER

The controller shall be of the OTIS ELECTRIC MAGNET CONTROL TYPE, for use with Otis Single Wrap Traction Machines and operated by a SWITCH in the car. Electro magnets are employed throughout, thereby eliminating the use of all Rheostats, Sliding Contacts, or other easily deranged devices.

The controller is designed to prevent damage to the motor from overload or excess current and to prevent admission of more current than is required to perform the specified duty of the elevator. These features are automatic in their operation and independent of the operator.

AUTOMATIC
SAFETY
MAGNET
SWITCH

An AUTOMATIC SAFETY MAGNET SWITCH is provided on the Controller to cut off the current automatically, apply the brake, and bring the car to rest, if there should be failure of current from any cause.

The magnet switches are mounted on selected slate panels, free of metallic veins, supported by a thoroughly insulated heavy angle iron frame. All switches have carbon to copper contacts of ample size, backed with cushion springs. All switches that break the main circuit are provided with arc deflectors. Connections and suitable resistances are placed on rear of controller panel.

CAR
OPERATING
SWITCH

The Operating Switch in the car shall be arranged to RETURN AUTOMATICALLY TO NEUTRAL OR STOPPING POSITION when released by the operator.

EMERGENCY
SWITCH

An EMERGENCY SWITCH shall be provided in the car to cut off the current supply to the motor, apply the brake and bring the car to rest, independently of the regular operating device.

All parts are heavy and substantial throughout, contacts and wearing parts being of ample dimensions to meet the severe conditions and exacting requirements of elevator operation and control.

CAR SAFETY
FRAME

The CAR SAFETY FRAME shall be made of structural steel, securely bolted and riveted together, and provided with adjustable guide shoes, and an OTIS CAR SAFETY DEVICE. The hoisting ropes shall be attached by means of adjustable spring hitches; thereby equalizing the stresses in the ropes, and greatly relieving the car frame of stresses due to starting and stopping.

CAR SAFETY
AND GOVERNOR

An OTIS CAR SAFETY DEVICE shall be mounted underneath the car platform on the safety frame, and shall be operated by an OTIS CENTRIFUGAL SPEED GOVERNOR at the top of the hatchway, which is designed to operate immediately in case the car attains excessive descending speed either as a result of the breaking of the ropes or for any other reason, and causes the safety device to grip the guides securely and prevent further descent. Prior to the operation of the safety device, all power is cut off from the motor, the brake applied and the machine stopped.

COUNTERBALANCE

The elevator shall be provided with suitable counterbalance for smooth and economical operation.

AUTOMATIC
STOPPING
SWITCHES

AUTOMATIC STOPPING SWITCHES are provided and arranged so that they will be opened automatically by movement of the car at either terminal, bringing the car to rest at the limits of travel.

All of the safety devices specified are entirely independent of the operating device and the attendant in the car, and, upon operation, cut off the current supply to the motor, apply the brake, and bring the car to rest.

PREPARATORY
WORK

The owner of the building is to prepare a legal hatchway, including its extension above the roof level, if such extension is necessary to allow the car to travel to the top landing. The owner is to prepare the necessary pit of proper and legal depth below the lowest landing, and is to prepare the place for the machinery. The owner is to furnish complete in place the hatchway enclosures, hatchway doors, gates, and gate sills if necessary, and covers, as may be required by him, or the local authorities having jurisdiction over the installation of elevators. The owner is to furnish and install proper supports for guide posts, and supports close to the limits of the hatchway for the overhead sheave and machine beams. The owner is to do all painting and mason work, and is to do all cutting of, and make all changes to, floors, walls or partitions, together with all repairs made necessary by such cutting or changes. The owner is to furnish proper electric power as previously described in this specification, including necessary current for starting, testing, and adjusting machinery. The owner is to furnish the grating under overhead work, also fire-proof room for elevator machine, if local regulations so require. The owner is to complete all of his work in such time as not to delay our work.

SERVICE

For a period of three months after completion of the elevator we will furnish OTIS SERVICE consisting of a weekly examination of the Elevator and including oiling and cleaning Machine, Motor and Controller; greasing or oiling Bearings and Guides; making necessary minor adjustments; Call Back Service in Cities where we maintain an office, and furnishing of the following specified supplies: all Carbon and Copper Contacts, Contact Insulations and Contact Springs, Motor Brushes, Oils, Greases, Rope Preservative and Cotton Waste.

This service is tendered subject to the following TERMS and CONDITIONS.

OTIS ELEVATOR COMPANY shall not under any circumstances be liable under or by reason of this agreement for any damage caused, directly or indirectly, by strikes, lockouts, accidents or other causes beyond its control; nor shall it be liable, directly or indirectly, for any damages to any machinery, appliance or property connected therewith. You agree to indemnify and save harmless Otis Elevator Company against any claims arising by reason of any accident, injury or damage to any person or persons whomsoever while riding upon, or being in or about said elevators, however caused.

We propose to furnish and erect One electric passenger elevator for
Colored Hospital, Houston, Texas, Maurice J. Sullivan, Architect,

in accordance with the foregoing detailed specifications of Jan. 4, 1926. for the sum of
\$3390.00 Three Thousand Three Hundred ninety and no/100 Dollars.

Quotations are subject to change without notice.

Payments shall be made as follows: Seventy per cent, pro rata for each elevator, upon shipment of the machine; twenty per cent when the machine is in permanent position; and the remaining ten per cent when elevator is in complete running order. We reserve the right to discontinue our work at any time until payments shall have been made as agreed.

The purchaser agrees that in case he does not take delivery of the machine or materials at the building when tendered, but not earlier than _____ months from date of this agreement, he will at once designate some local point where he will take delivery. He will further assume all warehousing and insurance charges. Upon failure of purchaser to designate within two weeks such point of delivery, we are authorized to warehouse machines or material outside of our factory at his risk and expense.

Should we be delayed by reason of any default on the part of the purchaser in the terms and conditions of this proposal, the entire contract price, less payments theretofore made, shall become due on the date named herein for completion, and any deferred payment shall bear interest at the full legal rate from such date.

All agreements or contracts are subject to delays caused by embargoes, strikes, lockouts, accidents or by any other cause beyond our control.

The purchaser is to furnish us, within thirty days from the date of this agreement, sufficient data (including guarantee of hatchway sizes and confirmation of current characteristics) to permit us, at our discretion, to buy and manufacture any or all parts.

The hatchway shall be ready by _____ after which we are to have its uninterrupted use. The apparatus shall be in complete running order by _____ but any unforeseen delay on our part shall not operate as a forfeiture of this contract.

It is agreed that the workmen shall be given a safe place to do their work. If not, we reserve the right to discontinue our work in the building when conditions are such that the lives of our workmen are endangered by the work of others.

Should damage occur to our material or work on the premises by fire, theft or otherwise, if not caused by us, the purchaser is to compensate us therefor.

Unless otherwise agreed it is understood that the work will be performed during regular working hours of regular working days. If overtime work is mutually agreed upon and performed, the additional price, at our usual rates for such work, shall be added to the contract price above named.

We are to retain title to, and possession of, all machinery, implements and apparatus furnished by us under the terms of this proposal, until final payment shall have been made.

We hereby guarantee that the material and workmanship of the apparatus furnished by us, under these specifications, shall be first class, and that we will make good any defects, not due to ordinary wear and tear, or to improper use or care, which may develop within one (1) year.

This contract is not valid unless approved by _____ an officer of the Otis Elevator Company.

If any drawings, illustrations or descriptive matter are furnished with this proposal, they are approximate and submitted only to show the general style, arrangement and approximate dimensions of the machinery offered.

This proposal, and the acceptance thereof, shall constitute, exclusively and entirely, the contract for the apparatus described in the foregoing specifications, and all prior representations or agreements relating thereto, whether written or verbal, shall be deemed to be merged herein.

APPROVED, for Otis Elevator Company

SIGNED AND ACCEPTED IN DUPLICATE _____ 192_____

Respectfully submitted,
OTIS ELEVATOR COMPANY

By _____



FORM 1422 (10-24)