Vertechs
World-Class Elevators

Bali Hai Beach Resort

"VERTECHS - EDGE"

Elevator Proposal

3500LB 2 STOP (Front Only)

with MACHINE ROOM

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We appreciate the opportunity to provide the following proposal to supply and install ONE "HOLELESS" Fluitronic Passenger Elevator, trade name "EDGE" for the above referenced project as follows:

Price: **$55,362.00**

Payment Schedule:

1st. Payment:	20% of contract price due upon completion of Engineering and supply of Engineering layout "Drawings for Review"
2nd. Payment:	50% of contract price due upon completion of Manufactured Elevator in Vertechs warehouse.
3rd Payment:	20% of contract price due upon Completion of the Installation (The Completion of Installation does not include the Inspection)
4th Payment	10% on completion of Inspection by AHJ

Specifications: Our proposal supports the supply, installation and inspection of an elevator as set out on our summary specification attached.

Estimated Delivery:

Layout Drawing from Vertechs to Customer from receipt of purchase order.
2 weeks.

Reviewed Layout Drawing from Customer to Vertechs
3 weeks.

Final Drawings from Vertechs to Customer from signed Drawings for Review
2 weeks.

Manufacturing and Delivery from receipt of EMD (Elevator Manufacture Date) Form from Customer
10 weeks.

Installation and inspection
2 weeks + Inspection by State

Terms and Conditions: This proposal is valid for thirty (30) days from proposal date and is also conditional on equipment being installed within 12 months of the date of acceptance. Prices are subject to revision outside of these conditions.

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Specification Summary 3500 LB 2 Stop (Front Only):

Product:	**VERTECHS HOLELESS FLUITRONIC PASSENGER ELEVATOR (TRADE NAME "EDGE")**
Design and Installation:	Shall comply with ASME A17.1-2013/CSA B44 and applicable local elevator codes.
Capacity:	3500 LBS
Travel:	120"
Nominal Speed:	100 fpm
Pit:	48"
Overhead:	155"
Hoistway:	103" Wide x 89" Deep.
Machine Room:	Adjacent to hoistway (Shaft) at lowest Landing
Machine Room Size:	As per drawing provided by Vertechs
Power Supply:	220 V 3 PH 60 HZ
Cab Lighting Power Supply:	110 V 1 PH 60 HZ
Number of Floors Served:	2 Front
Operation:	Selective/Collective
Starts per hour:	**2**5 starts per hour maximum without a heat exchanger. A heat exchanger is not included in this proposal. Mechanical Engineer for the project to design adequate cooling for the elevator machine room equipment to be supplied and installed by the developer.

Landing Entrances:

Type:	Two Speed Horizontal Side Slide
Size:	36" Wide x 84" High, nominal
Finish:	Doors and Frames, Powder Coated Beige
Sill:	Satin (Brushed) Aluminium
Fire Rating:	1 ½ Hour UL

Cab Details:

Size:	63" Wide x 80" Deep x 90" High, nominal
Floor:	Plywood Unfinished Floor, 5/8" (16 mm) Provisions made for supply and installation of cab floors by others.
Entrance (Door & Frame):	Brushed Stainless Steel with two speed side slide door operation
Walls:	Applied Plastic Laminated Panels. STANDARD FORMICA Selection.
Handrail:	Flat Satin (Brushed) Stainless Steel 2" (50 mm) x ¼" (6.5 mm) on 2 sides.
Ceiling & Lighting:	White Enamel Ceiling complete with 4 LED down lights.
Cab Reveals:	Black
Cab Base (Kick Board):	Black

Fixtures and Signal Devices:
Car Operating Panel (COP):

Finish:	Satin (Brushed) Stainless Steel
Signal:	Digital Directional (DI) and Position Indicator (PI)
Push Buttons:	Door Open, Door Close, Floor Call Buttons Help and Alarm
Floor Designation:	Floor identification complete with Braille tag
Fireman's Service:	Phase II
Run/Stop:	Key switch with Braille Tag
Independent Service:	Key switch
Emergency Telephone:	Push button with Braille tag and call acknowledge indicator
Push Button Finish:	Satin (Brushed) Stainless Steel bezel with LED Illumination

Directional Lantern: Located on Car Strike Jamb. Visible from inside the cab and the landing entrance when the door is open.

Hall Stations General:

Type:	Flat Plate
Finish:	Satin (Brushed) Stainless Steel
Push Button:	Satin (Brushed) Stainless Steel bezel with LED Illumination

Hall Station Lowest Landing:	Single momentary push button
Hall Station Top Landing:	Single momentary push button
Hall Station Intermediate Landing:	Two momentary push buttons
Hall Station Phase 1 Fire Service:	Fire service key switch and elevator communication failure indicator
Hall Station Hoistway Access:	Hoistway Access key switch

Hall Digital Directional (DI) and Position (PI) Indicator: N/A

Door Operator: Closed loop, 24 VDC Drive with adjustable soft start, soft stop, opening speed and closing speed.

Drive System:

Type: Direct Acting 1:1 Twin Jack Holeless system

Fluitronic Drive: Submersible motor designed specifically for quiet elevator operation. 3010 Pressure Compensated Control Valve providing a smooth and adjustable operation throughout the complete travel, both up and down. 3 spindle positive displacement quiet screw pump designed specifically for elevator operation. Vented reservoir designed for housing fluid and drive components and to eliminate build – up of condensation.

Jacks:	Twin direct acting jacks, either single stage or mechanically synchronized telescopic jacks attached directly to the elevator car frame in a balanced condition.
360 Non-Proprietary Controls Systems:	
Type:	Micro-controller based system with SMT Technology.
Operation:	Selective/ Collective (A form of elevator operation whereby the Controller recognizes, accepts, and answers all calls in one direction of travel, irrespective of the sequence of the calls, before reversing direction.)
Homing:	Field programmable to any floor, typically the main floor.
Nudging:	Provides a warning sound and causes the doors to close at a slow speed, if the doors are obstructed from closing for longer than the pre-set time.
Fire Service:	Phase I and II Phase I fire recall and Phase II in car operation is provided to perform according to code requirements. Fire Service operation will comply with ANSI/ASME A 17.1/ CSA B44-2110 requirements.
Auxiliary Power Operation:	**N/A**
Independent Service:	Key Activation will eliminate the possibility to place hall calls. Car operation is controlled by the rider. Doors will be only closed by applying constant pressure to the call button on the COP. When the doors fully close, the car will move to the floor selected.
On Board Diagnostic:	In the event of a normal power failure, operation of the emergency power system will comply with ASME A 17.1 and CSA B44-2013 Code.

Safety Features:	Meet or exceed all safety requirements detailed in ASME A 17.1 – 10/CSA B-44 2013. Some are as follows; • Back-up system that automatically lowers car to bottom landing and opens the doors during power failure • Emergency manual lowering on drive unit operational by elevator mechanic only

- Emergency Stop switch in car
- CSA/UL Approved Door Interlocks
- UL 1 ½ hr fire rated landing entrances
- Car Door Restrictor to prevent riding passengers from opening the doors when the car is not at the landing
- Line Rupture Valve to prevent free fall of the elevator if fluid line ruptures
- Terminal Limit switches to prevent the car from running past the terminal landings
- Low Oil Timer to turn pump off should car not reach the landing in the pre-determined time.
- Auto re-leveling to automatically bring car back to floor level
- Micro-scan full door protection to prevent doors from closing when light screen is obstructed
- Emergency light in car in case of power failure
- Hoistway Access as standard, making it easy for elevator mechanic to step on top of the elevator car when completing service or maintenance

Other Features Included:

Certificate Frame
Independent Service
Floor Landing Decals with Braille Markers
Car Arrival Chime
Pit Ladder
Furniture Pads and hooks
2 Speed Car Fan

Warranty: Warranty includes the replacement of defective parts at no cost for a 12 month period. Warranty does not support the replacement of parts due to normal wear and tear, misuse or vandalism.

Maintenance: Maintenance has not been included in this proposal

WORK BY OTHERS:

a. The General Contractor (GC) shall provide the following as per the enforcing Model Building Codes, National Elevator Code and or the local codes if more stringent:

HOISTWAY (shaft) (hatch):

a. Hoistway sometimes named shaft or hatch including pit and overhead shall be sized as per drawings supplied by Elevator Contractor. Hoistway to be fire rated as directed by the authority having jurisdiction.
b. Rough openings at each landing to accept the Elevator Landing Frame/Entrance shall be constructed and sized as per the drawings supplied by the Elevator Contractor.
c. Finished floors at each landing shall not be completed until Elevator Landing Entrances have been installed by Elevator Contractor.
d. Sill at landing entrance shall be constructed having a sound attachment as per drawings supplied by Elevator Contractor for anchoring of elevator landing sill supports supplied and installed by Elevator Contractor.
e. Bond beam (lintel) at each landing entrance shall be so constructed to support overhead loads and attachment of elevator landing frame by Elevator Contractor.
f. Each landing shall be protected by a securely fastened, easily removed code compliant barricade supplied and installed by GC.
g. Pit Floor shall be level with slight grade to sump drain as required. Sump pump shall not be located in pit.
h. Pit floor shall be able to support loads indicated on drawings supplied by Elevator Contractor.
i. Hoistway walls shall be able to support loads indicated on drawings supplied by Elevator Contractor.
j. Masonry Inserts supplied by Elevator Contractor shall be cast into hoistway walls by GC to support loads indicated on drawings supplied by Elevator Contractor.
k. Hoist beam shall be supplied and installed by GC as per drawing supplied by Elevator Contractor.
l. Pit access ladder shall be supplied by Vertechs and installed by GC as per drawing supplied by the Elevator Contractor.
m. Heat detectors, smoke detectors and rigid conduit to these devices supplied and installed by GC as per drawing supplied by Elevator Contractor.
n. Pit light switch, guarded pit light, pit GFCI and rigid conduit to these devices supplied and installed by GC as per drawing supplied by Elevator Contractor.
o. Upon setting of Elevator Landing Frames by Elevator Contractor front walls shall be finished to landing frames by GC as per drawings supplied by Elevator Contractor.
p. Hall Fixtures (push buttons and directional/position indicators) supplied by Elevator Contractor to be set in place by GC maintaining fire rating of hoistway.
q. Only those services directly related to the elevator shall be permitted in Hoistway.

MACHINE ROOM:

a. Machine Room shall be adequately fire rated to building code requirements shall be sized and located as per drawing supplied by Elevator Contractor.
b. Only those services ***directly related*** to the elevator will be permitted in the machine room. As per the authority having jurisdiction.
c. Labeled Lock Box supplied and installed by GC shall be located outside of the machine room to house key for the machine room door for those personnel with authorized access. Key for Lock Box shall be supplied to Elevator Maintenance Company.
d. Labeled Lock Box supplied and installed by GC shall be located outside of the machine room or in location advised by emergency fire service personnel to house elevator fire service keys and elevator landing door keys in case of an emergency. Lock Box shall be keyed as instructed by those with authority such as local emergency fire authority.
e. Machine Room temperature shall be maintained between 70 deg and 90 deg f (21deg. c and 32deg.c), with relative humidity not to exceed 85% non-condensating.
f. 4" PVC Sleeves supplied and installed by GC through machine room wall for fluid lines and electrical lines as per drawing supplied by Elevator Contractor.
g. Provisions to be made by GC for running electrical and fluid lines for remote machine rooms (not attached to hoistway). As per drawings supplied by the elevator contractor.
h. Fire rated swing door, self closing, and self locking and keyed for this door only meeting applicable codes shall be supplied and installed by GC as per drawing supplied by Elevator Contractor. Sign shall be placed on outside of elevator swing door by GC "Danger Authorized Personnel Only".
i. Light switch supplied and installed by GC located on strike jamb wall inside machine room as per drawing supplied by Elevator Contactor. Light switch shall be an on/off toggle switch, a motion sensor will not be permitted. As per the authority having jurisdiction.
j. Guarded Lighting shall be supplied and installed by GC as per drawing supplied by Elevator Contractor. Lighting to be a minimum of 200 lx (19 fc) at floor level.
k. Fused lockable 3 phase main electrical disconnect with auxiliary contact and rigid conduit shall be supplied and installed by GC as per drawing supplied by Elevator Contractor.
l. Fused lockable 1 phase 120 volts 15 amp electrical disconnect for cab lighting and rigid conduit to disconnects shall be supplied and installed by GC as per drawing supplied by Elevator Contactor.
m. Main electrical feed lines, auxiliary electrical lines and lighting feed lines from disconnects shall be supplied and installed to the elevator controller by GC as per drawing supplied by Elevator Contractor.
n. Air Conditioner, if wall mounted cannot be mounted over any equipment in the machine room.

o. Sprinkler heads and water feed line fittings to sprinklers heads cannot be mounted over any electrical equipment or drive in machine room.
p. GFCI Receptacle and rigid conduit to GFCI supplied and installed by GC as per drawing supplied by Elevator Contractor.
q. Telephone Jack and rigid conduit to jack supplied and installed by GC as per drawing supplied by Elevator Contractor.
r. Clearance in front of electrical disconnects, drive machine and elevator controller must be greater than 1 m (39 ½").
s. Labeled dry contacts shall be run from a fire initiating device (FID) in machine room, hoistway and at landings back to machine room by others as per drawing supplied by Elevator Contractor. As per the authority having jurisdiction.
t. Where required provide means to automatically remove main line power supply to the elevator when sprinklers located in the machine room or top of hoistway have been activated. Sprinklers in any other location shall not remove main line power to the elevator.
u. General Contractor shall co-ordinate the "EMERGENCY FIRE TEST" by the Authority having jurisdiction, with Vertechs Elevator Supervisor (Greg DeSoto, 727-432-5637) so that the test occurs at the same point in time as the completion of the elevator pre-inspection.

This project shall comply with current building and elevator codes.

ASME/ANSI A 17.1 2013 CANCSA-B44 Safety Code for Elevators and Escalators.

ANSI/NFPA 70, National Electrical Code.

ANSI/NFPA 80 Fire Doors and Windows.

ADAAG, Americans with Disabilities Act Accessibility Guidelines.

ANSI/UL 10B Tests of Fire Door Assemblies.

The Authority having Jurisdiction

Florida Statutes – please research for updates:

Title XL	Chapter 713	View Entire Chapter
REAL AND PERSONAL PROPERTY	LIENS, GENERALLY	

713.015 Mandatory provisions for direct contracts.—

(1) Any direct contract greater than $2,500 between an owner and a contractor, related to improvements to real property consisting of single or multiple family dwellings up to and including four units, must contain the following notice provision printed in no less than 12-point, capitalized, boldfaced type on the front page of the contract or on a separate page, signed by the owner and dated:

ACCORDING TO FLORIDA'S CONSTRUCTION LIEN LAW (SECTIONS 713.001-713.37, FLORIDA STATUTES), THOSE WHO WORK ON YOUR PROPERTY OR PROVIDE MATERIALS AND SERVICES AND ARE NOT PAID IN FULL HAVE A RIGHT TO ENFORCE THEIR CLAIM FOR PAYMENT AGAINST YOUR PROPERTY. THIS CLAIM IS KNOWN AS A CONSTRUCTION LIEN. IF YOUR CONTRACTOR OR A SUBCONTRACTOR FAILS TO PAY SUBCONTRACTORS, SUB-SUBCONTRACTORS, OR MATERIAL SUPPLIERS, THOSE PEOPLE WHO ARE OWED MONEY MAY LOOK TO YOUR PROPERTY FOR PAYMENT, EVEN IF YOU HAVE ALREADY PAID YOUR CONTRACTOR IN FULL. IF YOU FAIL TO PAY YOUR CONTRACTOR, YOUR CONTRACTOR MAY ALSO HAVE A LIEN ON YOUR PROPERTY. THIS MEANS IF A LIEN IS FILED YOUR PROPERTY COULD BE SOLD AGAINST YOUR WILL TO PAY FOR LABOR, MATERIALS, OR OTHER SERVICES THAT YOUR CONTRACTOR OR A SUBCONTRACTOR MAY HAVE FAILED TO PAY.

TO PROTECT YOURSELF, YOU SHOULD STIPULATE IN THIS CONTRACT THAT BEFORE ANY PAYMENT IS MADE, YOUR CONTRACTOR IS REQUIRED TO PROVIDE YOU WITH A WRITTEN RELEASE OF LIEN FROM ANY PERSON OR COMPANY THAT HAS PROVIDED TO YOU A "NOTICE TO OWNER." FLORIDA'S CONSTRUCTION LIEN LAW IS COMPLEX, AND IT IS RECOMMENDED THAT YOU CONSULT AN ATTORNEY.

(2)(a) If the contract is written, the notice must be in the contract document. If the contract is oral or implied, the notice must be provided in a document referencing the contract.

(b) The failure to provide such written notice does not bar the enforcement of a lien against a person who has not been adversely affected.

(c) This section may not be construed to adversely affect the lien and bond rights of lienors who are not in privity with the owner. This section does not apply when the owner is a contractor licensed under chapter 489 or is a person who created parcels or offers parcels for sale or lease in the ordinary course of business.

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Terms and Conditions: This proposal is conditional upon the parties agreeing to the terms of and executing a contract for this project in the form of the Vertechs Supply and Installation Agreement and is valid for thirty (30) days. Permit and Inspection Fees are not included in this quote.

Purchaser Signature:.....Vertechs Signature.....

Date:.....