In lieu of Standard Position Indicator – In-Cab Media Screens

1. One (1) CE Electronics 15” Elite PI in each car operating panel in lieu of a specified position indiciator. The 15” Elite PI (EX150) shall incorporate the following:
    a. Provide: C.E. Electronics, Inc. - EX150-PL2 / 15" Elite PI Portrait
    b. Provide with video capabilities. Layout TBD (Landscape/Portrait).
    c. Provide USB cables connected to the back of each monitor with the other ends in the service cabinet for easy uploading of content to screen.
    d. Monitors shall come installed with a minimum of 10 preapproved images and content. Content must be pre-approved by Purchaser.
    e. Display elevator position, direction of travel, and up to eight (8) priority messages. The system shall also be capable of displaying floor-based messages, advertising content, as well as scheduled messages in either text or graphic formats. A part of the screen shall be reserved for car position and direction which shall be displayed on another designated section of the screen with space for four (4) lines of approximately 18 characters per line; only one message shall be displayed at a time.
    The displays shall have a priority override sequence available. A duration shall be assigned for each of the floor-based messages so that they are displayed one after another for the time intervals specified. When the car has committed to stop at a floor a directory message shall be displayed overriding any floor-based message. While the car doors are open the directory message shall continue to be displayed and the triangle indicating the car’s direction shall move up and down. When the car doors close at the directory message shall disappear. Elevator display information shall be capable of being kept updated via a serial link and USB cable. System updates shall use windows-based software to be provided to Purchaser and shall be able to be programmed via a standard RS485 link.
    f. The display shall have the following abilities:
        i. Full video capabilities
        ii. User customized display layout
        iii. User choice of background colors
        iv. Choice of font style
        v. Choice of different arrow styles
        vi. Choice of factory and customer designed graphic files
        vii. Means to remotely update displays without requiring the opening of the car operating panels
    g. All applicable training for Building Management
    h. Provide all applicable power and signal wiring required in solid conduit for complete installation
    i. Provide LAN Connectivity:
        i. Provide all LAN connections and all wiring for ease of changing content by the building management. Elevator Contractor shall furnish dedicated and standalone network backbone for this work.
        ii. Include and install CE Electronics Network Boards, to be utilized for Purchaser network connection via Ethernet cable and dedicated IP Address. Make all appropriate connections and programming assistance to ensure monitors and car operating panel graphs are connected to Purchaser network.

2. Onsite stock of parts: provide one (1) spare screen as “attic stock” for immediate replacement in the event a screen becomes faulty. Screen shall be protected and stored in an onsite Elevator Machine Room and clearly labeled.

In lieu of Standard Pushbuttons – In-Cab Touch Screens

Provide new touch screen car operating panels in lieu of traditional pushbutton car operating panel. Locate where current car operating panels are.

1. Car stations shall be **APPLIED** type with a minimum of three hinge points.
2. Car stations shall be constructed out of **satin** stainless steel.
3. Provide: C.E. Electronics, Inc. - ET190-APX | 19" ELITE TOUCH ® | PCAP
4. Touch screen shall provide primary call registration. Touch screen shall include an integrated. Touch Sensitive Tempered Glass panel, meeting shatter/break resistance from the drop ball test as described in section UL-60950 & CSA 22.2 # 60950. Acceptable viewing angels are 165 degree at a minimum from all sides of the screen. Operating temperatures a minimum of 0 C to 60 C are required.
5. Touch Screen shall also meet all requirements set forth by the most current ANSI A117.1, ADAAG, ANSI/NFPA, ASME A17.1, and all other codes within a particular AHJ, for purpose of compliance.
6. The Touch Screen shall service as the primary method of passengers to select the desired floor. Component design criteria shall incorporate Daisy Chain type design, with a deypad meeting all requirements of applicable codes. Keypad provided shall operate independently of the Touch Screen, enabling continued operation by registration of calls in the event of a failed Touchscreen. Keypad will be provided with handicap compliant voice prompting for floor selection. An independent LCD screen shall be provided immediately adjacent the keypad giving acknowledgement of registered calls. All connectorization shall be of lockable type pin/socket as to resist disconnection caused by vibration and/or abrupt motion.
7. Provide keypad, silver in color, for each car operating panel for Accessibility Code and Guidelines Compliance.
8. Proximity tinted security reader lens shall be included in car operating panels and positioned in a location that complies with the accessibility code requirements.
9. Fire Service screens for Phase II will extinguish all unnecessary graphics with the exception of floors served. Emergency controls for Door Open, Door Close and Emergency stop will continue to utilize traditional push buttons/key switch arrangements.
10. Provide alarm button to ring bell located oncar. Illuminate button when actuated.
11. Provide keyed stop switch at bottom of car operating panel in locked car service compartment. Mark device to indicate “run” and “stop” positions.
12. Provide “door open” button to stop and reopen doors or hold doors in open position.
13. Extended Door Hold Open Button: Provide button to extend normal door hold open period up to 30 seconds. Cancel extended time by registration of car call or actuation of door close button. When activated, illuminate the door hold open button and the door close button. Cancel the hold open time when the door close button is activated. If a hall call is entered at another floor, sound a buzzer to indicate call waiting is activated.
14. Provide “door close” button to activate door close cycle. Cycle shall not begin until normal door dwell time for a car or hall call has expired, except firefighters’ operation

15. Provide firefighters' locked box as required by code. Provide firefighters' Phase II key switch with engraved instructions filled red. Include light jewel, buzzer, and call cancel button
16. Install firefighters' telephone jack if currently present.
17. Provide lockable service compartment with recessed flush door. Door material and finish shall match car return panel or car operating panel faceplate. Inside surface of door shall contain an integral flush window for displaying the elevator permit.
18. Include the following controls in lockable service cabinet with function and operating positions identified by permanent sinage or engraved legend:
    a. Inspection Switch.
    b. Light Switch.
    c. Three-position exhaust blower switch.
    d. Independent service switch.
    e. Constant pressure test button for battery pack emergency lighting.
    f. 120-volt, AC, GFCI protected electrical convenience outlet.
    g. Stop switch.
    h. Security override switch.
    i. Pit Flood Notification Reset Switch.
19. Provide black paint filled (except as noted), engraved, or approved etched signage as follows with approved size and font:
    a. Phase II firefighters' operating instructions in accordance with applicable codes with red filled lettering.
    b. Car number on each car operating panel.
    c. "No Smoking" on auxillary car operating panel.
    d. Car capacity in pounds on service compartment door.
20. Normal pushbuttons where required shall match the hall pushbuttons.
21. Pit Flood Indicator Light.
22. Onsite Stock of Parts. Provide 1 (one) spare screen as "attic stock" for immediate replacement in the event a screen becomes faulty. Screen shall be protected and stored in an onsite Elevator Machine Room and clearly labeled.

Alternat

1. Provide CE Electronics NO TOUCH HALL AND CAR BUTTON QR READERS
2. Provide and install new QR code readers, logic, and system engineering to allow for a secondary means to fire car and hall buttons. These QR readers are provided in addition to the existing buttons to eliminate the need to direct skin contact with the elevator buttons. The new QR scanners are designed to read QR codes in all formats – printed on paper, stickers, ID badges, or generated via smartphone photo or application. Provide third-party software "Elite Concierge" application to generate QR codes for appropriate car station floors and for up / down hall readers. Contact Chris Bosley at cbosley@ceelectronics.com
3. Readers shall be in ALL hall pushbutton stations and in-car operating panels.

FIRE COMMAND CENTER

A. Firefighters' Control Panel: Provide New
    1. Locate in existing panel location. Contractor may utilize CE Electronics screen in lieu of digital indicators to achieve the visual requirements mandated by code in order to conserve on space and reduce wire count.
    2. Fixture faceplate, stainless steel satin finish, including the following features:
        a. Car position and direction indicator (digital-readout or color SVGA display type).
        b. Identify each position indicator with car number and group identification.
        c. Indicator showing operating status of car.
        d. Firefighters' emergency return switches and indicators with engraved instructions filled red.
        e. Two-way communication phone requirements.
        f. Manual car standby power selection switches and power status indicators.
        g. Car number and designation engraved
        h. Any additional requirements required by code authorities at time of permitting.
    3. All wire shall be new.
    4. All conduit beyond the hoist way space shall be new. If conduit in hoist way is insufficient in size or location, provide new.
    5. Provide elevator phone line(s) and communication devices as required to achieve two-way communication between the fire command center and each elevator.
    6. Location: Install current panel location.

SIGNALS

1. Car Position Indicator: Provide New.
    a. Digital indicator containing floor designations and direction arrows a minimum of 2" high to indicate floor served and direction of car travel.
2. Hall Position Indicator: Provide New where currently existing
    a. Provide above entrance frame with minimum 2" numeric digital indicators displaying the elevator floor the elevator is on and direction of any active movement.
    b. On floors where there currently is not a hall position indicator, include a 1" digital indicator that shall be a position indicator for each elevator in the hall pushbutton station. Engrave "North and South" above indicator to represent the elevator the indicator represents.