



A VANTAGE Company

Phone: (916) 428-1708, Fax: (916) 428-1728
Email: sales@elevatorcontrols.com



AC Controller Data Forms

Project Data

Pixel AC Data Forms.xls	Revised 4/26/2019	Page 1 of 8
Job Name:	EC Job Number:	

Date Received: _____

Instructions:

1. Please fill out these data forms as completely as possible. Incomplete data may delay delivery.
2. A blank or no selection will be considered as item not applicable to this project.
3. All applicable data should be measured on the existing equipment, when it is to be retained.
4. The bottom landing shall be referred to as landing 1, and shall be the reference landing without regard to the building floor labels.
5. Contact Elevator Controls Corporation engineering department at 916-428-1708, if any questions arise regarding the required data.

NOTE: Your controller will be built according to the data furnished herein.

EC Quote #: _____ P.O. #: _____ Customer #: _____

Job Name: _____

Job Location: _____
Job Address: _____
Job City: _____
Job State: _____ **Zip Code:** _____

Yes No **Job Specifications**
 Yes No **Specifications have been sent to EC**
Consultant: _____
Contact: _____
Phone: _____ **Fax:** _____
Email: _____

Contractor Information:

Company: _____
Contact Name: _____
Address: _____
City: _____
State: _____ **Zip Code:** _____
Phone: _____ **Fax:** _____
Email: _____

Installation Type: New Construction
 Modernization
Duty Type: Passenger Service Freight
Building Classification:
 Office Hotel, Apartment, Condo
 Government Hospital/Medical Facility
 School or University Prison/Jail
 Other: _____

Shipping Information:

Company: _____
Contact Name: _____
Shipping Address: _____
City: _____ **State:** _____ **Zip Code:** _____
Phone: _____ **Fax:** _____
Email: _____

Code Compliance United States:
 A17.1-20xx -16 -13 -10 -07 -04
 Other (specify) - _____

Code Compliance International:
 Canada B44- -16 -13 -10 -07 -04
 Other (specify) - _____

Notice Required:
 24 Hours 48 Hours Other: _____
Shipping Method: Ground Air
 Lift gate truck required

Additional state or local code compliance:
 Chicago Nebraska
 GSA/Federal New York City
 Michigan Washington (Seattle)
 Other: _____

Motor(s) ship to address (if supplied by EC):

Motor Reference #: _____
 Same as above shipping information
Contact Name: _____
Shipping Address: _____
City: _____ **State:** _____ **Zip Code:** _____
Phone: _____ **Fax:** _____
Email: _____

Additional Compliance Requirements? Explain

Delivery Schedule	
Controller	Delivery Date (on site)
Car	
Car	
Car	
Car	
Group	
Cross Registration Panel	

Data Forms Completed By:
Name/Title: _____
Phone: _____ **Fax:** _____
Mobile: _____
Email: _____
Company: _____
Signature: _____



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AC Controller Data Forms

Hoistway Data

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Job Name:

EC Job Number:

Instructions:

1. Place an "X" in the appropriate box to indicate a floor opening. (F=Front & R=Rear)
2. To ensure the proper Landa stainless steel coded tape length, indicate all floor heights (including overhead and pit).
3. Provide an additional hoistway data page for each elevator that has different floor heights or openings.

EC Elevator ID:			Car A		Car B		Car C		Car D		Car E		Car F		Car C.L.		Hall C.L.		CODE BLUE		I.R.					
Building Elevator ID:																										
LDG #	Floor Label	Floor Height	F	R	F	R	F	R	F	R	F	R	F	R	F	R	F	R	F	R	F	R	F	R	F	R
	Overhead																									
32																										
31																										
30																										
29																										
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12																										
11																										
10																										
9																										
8																										
7																										
6																										
5																										
4																										
3																										
2																										
1																										
	Pit																									
Capacity: <input type="checkbox"/> lbs <input type="checkbox"/> kg															Lobby landing #: <input type="text"/>		Floor Label: <input type="text"/>									
Speed: <input type="checkbox"/> fpm <input type="checkbox"/> m/s															Car C.L. = Car Call Lockout Floor		Hall C.L. = Hall Call Lockout Floor		I.R. = Inconspicuous Riser (Swing Op.)							
Total Travel <input type="checkbox"/> ft <input type="checkbox"/> m																										
Traveler* <input type="checkbox"/> ft <input type="checkbox"/> m																					<input type="checkbox"/> Kellems Grips (total qty): <input type="text"/>					

Number of Hoistways: 1 2 _____ Standard hoistway equipment is NEMA 1 Other:

Final limit switches by EC (needed for traction elevators only, 2 total, cam by others)**



Each Pixel control system includes Landa, a non-contact encoded car positioning system that features an encoded stainless steel tape and requires no magnets or terminal slow down switches to be installed.

*Specify travel cable length if ordering **Pixel custom travel cable (optional)**. Specify length needed per car.

**Mechanical (LS1) final limit switches come with standard 15lbs rail brackets and hardware.

Control Features

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Job Name: _____		EC Job Number: _____

Machine room space limitations H W D
 Explain: _____

Refer to page 6 of data forms for NEMA 1 enclosure sizes

Controller NEMA Rating Requirement:

- 1 (standard) 12 4 4X
- Air conditioned enclosure
- Forced air ventilation
- Enclosure interior lighting

Type of Operation:

- Simplex:
 - Selective Collective Single Auto Push Button
 - Down Collective Single Button Collective
- Group Number of Cars: _____

Central connection point for communication is usually in the controller for Car #1. Specify lengths for communication cables (Car 1 to Car 2, Car 1 to Car 3, etc.). Allow for an additional 5 feet at each end to permit hookup inside the controller enclosure. _____

Number of hall call risers: _____

Cross Registration Panel

- Swing Car Operation: Car(s): _____
 - Key switch in car Key switch in hall
 - Automatically switch when IR call is registered
 - Dedicated riser for swing hall calls

Fire Service Operation:

- Fire Service Phase I:
 - 3 position keyswitch 2 position keyswitch
- Fire Service Phase II (3 position keyswitch)
 - Main Recall Landing #: _____ Floor Label: _____
 - Doors will open at: Front Rear
 - Alt. Recall Landing #: _____ Floor Label: _____
 - Doors will open at: Front Rear
- Additional Fire Recall Switch:
 - Location Landing #: _____ Floor Label: _____

Inspection/Hoistway Access Operations:

- In-Car Inspection Operation
- Hoistway Access Operation
 - Top access switch (top landing):
 - Location: Front Rear
 - Bottom access switch (bottom landing):
 - Location: Front Rear

In-Car Switch Type(s):

- 2-position Access Enable Switch
- 2-position In-Car Inspection Switch
- 3-position Inspection and HW Access switch

Operation on In-Car Inspection requires an Enable button and separate Up & Down buttons inside elevator cab.

Attendant Operation Annunciator panel in car
 Car to Lobby Switch: Car Hall Other _____

Cancel car calls immediately Answer new car calls
 Park with doors: Open Closed
 Return Landing #: _____ Floor Label: _____

- Earthquake Operation:
 - A17.1-16 compliance (HW scan switch, indicators, etc.)
 - Seismic switch Counterweight derailment device
 - Car operates on fire or hosp. service (reduced speed)

- Emergency Power Generator
 - E.P. contact during normal op. Open Closed
 - Power pre-transfer contact
 - Sequential lowering (standard)
 - If not, number of cars to run simultaneously: _____
 - Manual select switch: # of Pos: _____ Labels: _____

A17.1-2000+ requires indicator(s) if the elevators cannot be seen from the selection switch location.

Emergency Medical Technician Service (EMT):
 Return Landing #: _____ Floor Label: _____

Fan & Light Timer Operation (Elevator Cab)

Hospital Service (Code Blue): (indicate landings served on page 2)
 # of cars allowed to run on hospital service: _____

Hospital Service Phase 2 Operation initiated by:
 Hospital phase 2 switch Independent service switch
 Other (explain): _____

Independent Service Switch: Car (std.) Hall

Load Weighing: By EC Mfg: _____

Rope Tension X-head Deflect Isolated platform

Dry contact load weigher signals (not for pre-torque):
 Hall call bypass Anti-nuisance Overload

Pit Flood Operation Return landing: _____

Sabbath Operation

Security (check applicable requirements below)

Call lockout: (indicate landings served on page 2)
 Car: Card Reader Key Other: _____
 Hall: Card Reader Key Other: _____

Call lockout override switch: Car Hall
 Car call security (enter code using car call buttons)

Bypass Security: (bypass on fire service is standard)

Independent Service Attendant Service
 Other: _____

Additional features required: _____



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AC Controller Data Forms

Indicators

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Job Name:	EC Job Number:	

The Pixel control system requires all fixtures to be 24VDC, 3-6 watts maximum.

Car Call Registration Indicators:

Pixel Standard - CAN communication to COP

Auxiliary COP(s)
of car stations per car: _____

Hall Call Registration Indicators:

Pixel Standard - CAN communication to HALL

Hall Calls through CAN Communication
 Hall Calls through discrete I/O
Number of hall call risers: _____
If more than 2 hall call risers, please explain on page 7 (Hoistway Layout).

Passing Floor Chime:

EC 3-wire C.E. Micro Comm EC 3-wire E-Motive
 Pixel COP (24VDC, 6W max.)

 Passing floor enable button ("S" button)

Position Indicators:

Position indicators must be 3 wire network type:

EC 3-wire C.E. Micro Comm EC 3-wire E-Motive
 DL-20

 Car position indicator
 Hall position indicator
Location(s): Main Fire All Floors
 Other: _____

 Voice annunciation device
CE Micro Comm or Emotive 3-wire only

Lanterns:

Car lanterns: Chime Gong
 EC 3-wire C.E. Micro Comm EC 3-wire Emotive
 Pixel COP (24VDC,6W max.)

 Hall lanterns: Chime Gong
 EC 3-wire C.E. Micro Comm EC 3-wire Emotive
 Pixel Hall System (24VDC,6W max.)
CAN Communication via P-HALL boards (1 per floor)
Location(s): All Floors Lobby Only
 Other: _____

Delivery of Fixture Node Boards (Pre-wiring)

Ship Fixture Node Boards with Controller
 Ship Fixture Node Boards in advance to:
Company: _____
Contact Name: _____
Phone #: _____ Ref #: _____
Email: _____
Address: _____
City: _____ State: _____ Zip: _____

Miscellaneous Fixtures (24VDC, 3W max.):

Indicator description:	
<input type="checkbox"/>	Emergency power light (Hall)
<input type="checkbox"/>	Emergency power panel lights
<input type="checkbox"/>	Fire service light (COP & Hall)
<input type="checkbox"/>	Fire control panel (provide fixture prints/details)
<input type="checkbox"/>	Heavy load light (Hall)
<input type="checkbox"/>	Hospital service light (COP)
<input type="checkbox"/>	Hospital service buzzer (COP)
<input type="checkbox"/>	In-use Lights
<input type="checkbox"/>	Lobby control panel (provide fixture prints/details)
<input type="checkbox"/>	Overload light / buzzer (COP)
<input type="checkbox"/>	
<input type="checkbox"/>	
<input type="checkbox"/>	
<input type="checkbox"/>	
<input type="checkbox"/>	
<input type="checkbox"/>	
<input type="checkbox"/>	
<input type="checkbox"/>	
<input type="checkbox"/>	
<input type="checkbox"/>	
<input type="checkbox"/>	
<input type="checkbox"/>	
<input type="checkbox"/>	
<input type="checkbox"/>	

CAN Serial Hall Call/Lantern RJ45 Connection Options

NOTE: The standard cable package will be provided if no alternate selection is made.

Standard Cable Package

- Controller-to-first node: Length: 25 ft
- Floor-to-floor: One per floor, Length 14 ft, or
- Floor-to-floor: Two per floor, Length 7 ft (if hall lanterns)
- Splitter-to node: One per node, Length 5 ft
- Splitter-to-node (one per Access Switch): Length 7 ft
- Fire Switch Node to Hall Call Node (one): Length 6 inches
- Splitters (enough for standard node network)

Alternate lengths needed (indicate quantity and lengths)
Controller-to-first node: Length: _____
Floor-to-floor: Qty: _____ Lengths: _____
Splitter-to-hall node: Qty: _____ Lengths: _____
Splitter-to-access nodes: Qty: _____ Lengths: _____
Fire Switch Node to Hall Call Node: Length: _____

Additional Comments:

Door Information

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New door operator:
Supplier: _____
Contact: _____
P.O.#: _____ Phone: _____

Existing door operator

Car Gate and Hoistway Doors:

Automatic car gate
 Manual car gate
 Gate release solenoid: Voltage: _____ V Phase _____
 Current: _____ A Description: _____

Automatic Passenger Door Operators:

Place an "X" in the appropriate box(es) to indicate door operator (F = Front and R = Rear). Operators shown in **italics>** require interface module mounted on cartop.

F	R	
<input type="checkbox"/>	<input type="checkbox"/>	GAL MOVFR: <input type="checkbox"/> 230V <input type="checkbox"/> 115V
<input type="checkbox"/>	<input type="checkbox"/>	<i>GAL MOD (shunt wound):</i> <input type="checkbox"/> 230V <input type="checkbox"/> 115V
<input type="checkbox"/>	<input type="checkbox"/>	<i>GAL MODPM:</i> <input type="checkbox"/> 230V <input type="checkbox"/> 115V
<input type="checkbox"/>	<input type="checkbox"/>	<i>GAL MOM/MOH</i>
<input type="checkbox"/>	<input type="checkbox"/>	MAC PM-SSC
<input type="checkbox"/>	<input type="checkbox"/>	ECI: <input type="checkbox"/> 895 <input type="checkbox"/> 1000 <input type="checkbox"/> 2000 <input type="checkbox"/> VFE2500
<input type="checkbox"/>	<input type="checkbox"/>	Atlantic Tech <input type="checkbox"/> 9001 <input type="checkbox"/> 9003
<input type="checkbox"/>	<input type="checkbox"/>	Dover/TKE: <input type="checkbox"/> HD73 <input type="checkbox"/> HD85 <input type="checkbox"/> DC68
<input type="checkbox"/>	<input type="checkbox"/>	Dover/TKE: <input type="checkbox"/> HDLM <input type="checkbox"/> PA LULA
<input type="checkbox"/>	<input type="checkbox"/>	Fermator VVVF5
<input type="checkbox"/>	<input type="checkbox"/>	IPC Encore (closed loop) <input type="checkbox"/> D2000 <input type="checkbox"/> D3000
<input type="checkbox"/>	<input type="checkbox"/>	KONE AMD
<input type="checkbox"/>	<input type="checkbox"/>	MCE Smartraq
<input type="checkbox"/>	<input type="checkbox"/>	Nova BG101
<input type="checkbox"/>	<input type="checkbox"/>	Otis AT400 <input type="checkbox"/> Customer-supplied Pwr Supply
<input type="checkbox"/>	<input type="checkbox"/>	<i>Otis 6970A (Reactance)</i>
<input type="checkbox"/>	<input type="checkbox"/>	R&R DC244
<input type="checkbox"/>	<input type="checkbox"/>	<i>Schindler QKS:</i> <input type="checkbox"/> 14 <input type="checkbox"/> 15
<input type="checkbox"/>	<input type="checkbox"/>	Other*: _____

*Please send/provide door operator wiring diagrams.

Door Features:

Infrared detector/dual-beam photo eye unit:
 By EC (Weco-917P-2D) Customer Provided
 Cut-out switch located in COP
 Anti-nuisance
 Mechanical safety edge
 Heavy doors at landings: _____
 Door hold: Switch Button: (time) _____ sec.
 Nudging: Reduced torque with buzzer
 Buzzer only

Notes: _____

Electric Door Restrictor
 Brand: _____ Model: _____

Hoistway Door Type:

Automatic passenger (horizontal sliding)
 Automatic freight (vertical sliding)
 Swing*
 Manual*
 *Interlocks:
 Door closed contacts (separate from locked contacts)
 Door locked contacts
 Brand: _____ Model: _____

Door locking cam:

Fixed
 Mechanical (driven by automatic car gate)
 Retiring: Voltage: _____ V DC AC
 Current: _____ A Phase: _____
 Notes: _____

Power Freight Doors:

Door operator wiring diagrams have been sent to EC*
 Courion: MP iLearn Other: _____
 EMS (provide prints) Model: _____
 Peelle: PLC Wireless Other: _____
 Other (provide prints): _____

Freight Door Operation:

Door Opening: Automatic Momentary pressure
 Constant pressure
 Door Closing: Automatic Momentary pressure
 Constant pressure
 Fire Ph. 1 Closing: Automatic Momentary pressure
 Constant pressure

Notes: _____



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AC Controller Data Forms

Machine Room Data - Traction AC

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Job Name:	EC Job Number:	

Line Voltage: _____ (measured)
 AC 3 phase (symmetrical with respect to ground)
 AC single phase
 60 Hz 50 Hz

Machine: Existing New New from EC
 Brand: _____
 Location: Overhead Basement MRL
 Type: Geared: _____
 Gearless: PM (Perm. Magnet) Induction
 Roped: 1:1 2:1 Underslung
 Ropes are 8mm (0.315") diameter or smaller

Main Brake:
 DC AC single phase AC 3-phase
 Number of brake coils: 1 2 Other _____
 Per coil voltage and resistance measurements:
 Voltage Picking: _____ Voltage Holding: _____
 Resistance: _____ ohms Measured Data
 If measured: Hot Cold
 Contact on Brake: N/O (closed = brake is picked)
 N/C (open = brake is picked)

Emergency Brake (required on A17.1-2000 and later):
 Rope brake: Hollister Whitney Draka RB500
 Other Brand: _____ Model: _____
 Independent brake on machine # of coils: _____
 Voltage picking: _____ Voltage Holding: _____
 Resistance: _____ Ohms
 Other (explain): _____

Additional Requirements:
 Isolation Xfrmr By EC Nema rating: _____
 Line reactor
 Motor choke or output filter
 AC Regenerative Drive
 Machine blower: _____ FLA: _____
 Voltage: _____ AC DC Phase: _____
 Governor with remote set & reset solenoids:
 Voltage: _____ AC DC FLA: _____
 Jawless governor (rope slack switch)
 Reduced stroke buffers: Buffer rating: _____ fpm
 Counterweight safety
 Battery Power Rescue
 By EC Nema rating: _____
 MRL Test/Rescue System with Video

Hoist Motor: Existing New New from EC

Motor brand: Reuland Magil (Reliance)
 Imperial TorinDrive
 Other: _____

Induction Motor Data

HP: _____ Voltage: _____
 Frequency: _____ Hz. FLA: _____ NLA: _____
 Full Load RPM: _____ Synchronous RPM: _____
 Number of poles: _____ Model #: _____
 Motor mounting: Foot Flange
 Shaft style: Straight Tapered

PM Motor Data

HP: _____ Rated Frequency: _____ Hz.
 Rated Voltage: _____ Rated Amps: _____
 Peak Voltage: _____ Peak Amps: _____
 Number of poles: _____ RPM: _____
 Model #: _____

Velocity Encoder:

Existing New New by EC
 (If New by EC) Live motor shaft diameter: _____
 Brand: _____ Model: _____
 Encoder Pulses: _____ PPR
 Encoder Cable provided by:
 Customer By EC Length: _____ ft.
 (if by EC)

NEMA 1 Enclosure Sizes (includes resistor box):

Select a Nema 1 enclosure if a specific size is preferred. EC Manufacturing will determine if the required components will fit within the enclosure selected, and will advise if not possible. If no selection is made, EC will select the smallest enclosure size possible.

53"H x 36"W x 12"D (wall mount & lift off door)
 63"H x 36"W x 14"D (wall mount & lift off door)
 77"H x 36"W x 13"D (floor mount & single door)
 77"H x 36"W x 17"D (floor mount & single door)
 77"H x 47"W x 17"D (floor mount & double door)

Hinged door option
 Legs for floor-mounting a wall-mount enclosure
 12" (single) 24" (double)

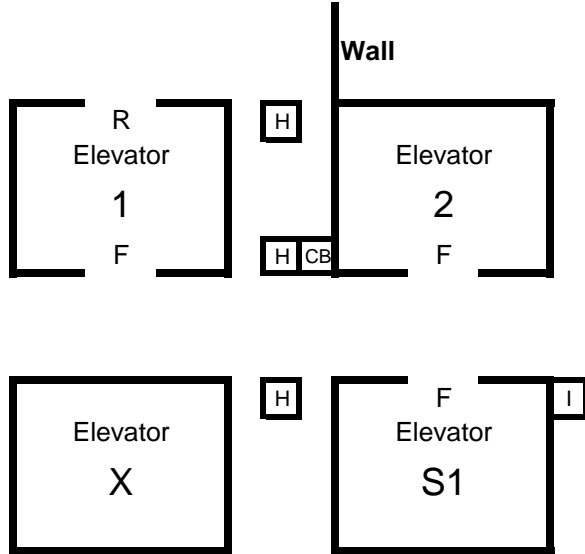
Additional Information: _____

Hoistway Layout

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Job Name:	EC Job Number:	

Using the grid layout below, identify each elevator by a number/name as appropriate for the building configuration. Place a 'X' through unused hoistways. Indicate location of the hall call pushbuttons, door openings and walls, as shown in the example below.

Example drawing of a 3 car group.



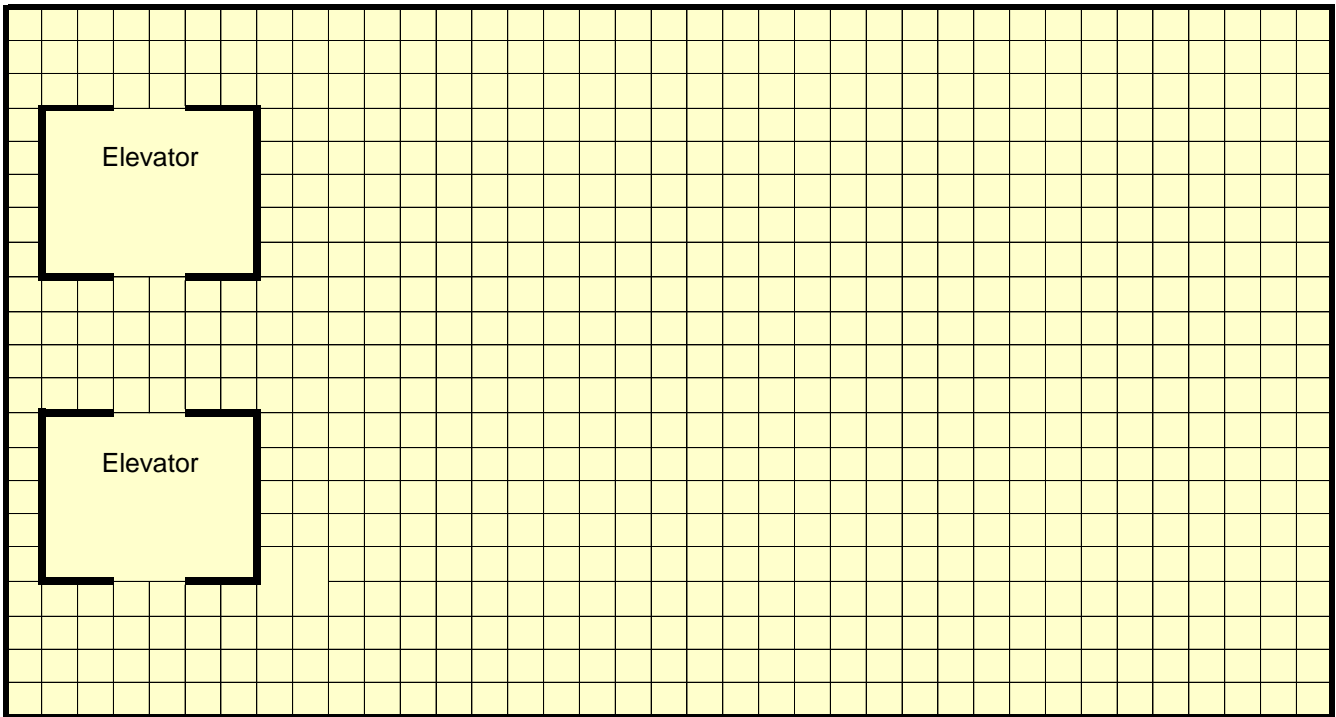
Door openings:
 F = Front opening
 R = Rear opening

Notes: _____

Hall Call Risers:

- H Hall call riser (group)
- I Inconspicuous riser (swing car riser)
- CB Code Blue (hospital service) riser

Notes: _____



Special instructions: _____



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AC Controller Data Forms

Monitoring Data

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Job Name:	EC Job Number:	

Machine Room Monitor (20" LCD is standard)
 Other: _____
 The central connection point for the Machine Room PC is located at the PC. Specify lengths for communication cables (Car 1 to PC, Car 2 to PC, Car 3 to PC, etc.). Allow for an additional 5 feet to permit hookup inside the controller enclosure. _____

Special Instructions: _____

Remote Monitoring Station(s):
 Interact Liftnet (IDS)
 Single Group Multi-group
 Desktop PC Quantity: _____
 Laptop PC Quantity: _____
 Monitor Type:
 LCD flat screen (standard)
 Other: _____
 Distance from controller to remote PC*: _____ ft.
 *If distance is longer than 400ft. repeaters are required.

Remote workstation location(s):
 Lobby Security room
 Fire control room Concierge desk
 Other: _____
 Communication media:
 Ethernet
 Line driver: By EC Others
 Printer(s) required Quantity: _____

Interfaces to 3rd Party Monitoring Systems
 Kings III
 Schindler Lobby Vision (dry contact interface)
 Mitsubishi MeEye (dry contact interface)
 Other (describe): _____

Using the grid layout below to sketch the remote monitoring system required.

