



A **VANTAGE** Company

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Hydro Controller Data Forms

Project Data

Pixel Master Data Forms.xls

Revised 08/06/2024

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. Required fields will be displayed in **BOLD/RED**. Conditionally required fields will be displayed in *ITALICS/BLUE*
6. 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/B-44-20xx
 -22 -19 -16 -13
 -10 -07 -04 Other
 Explain (other) _____
 Additional state or local code compliance:
 Chicago Nebraska
 GSA/Federal New York City
 Michigan Washington (Seattle)
 Other _____

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

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	On-Site Date
Car	
Car	
Car	
Car	
Group	
Cross Registration Panel	

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



Hydro 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 Call Lockout		Hall Call Lockout		CODE BLUE		I.R./ Swing		Lobby/ Recall			
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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10																										
9																										
8																										
7																										
6																										
5																										
4																										
3																										
2																										
1																										
	Pit																									
Capacity: <input type="checkbox"/> lbs <input type="checkbox"/> kg															Number of Hoistways: <input type="text"/> (std 1)											
Speed: <input type="checkbox"/> fpm <input type="checkbox"/> m/s															Hoistway NEMA Rating: <input type="text"/> (std 1)											
Total Travel <input type="checkbox"/> ft <input type="checkbox"/> m															Final Limit Switches by EC** <input type="text"/> qty.											
Traveler* <input type="checkbox"/> ft <input type="checkbox"/> m															<input type="checkbox"/> Kellems Grips (total qty): <input type="text"/>											



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

Enclosure & Accessories:

- NEMA 1 (standard) NEMA 12 NEMA 4 4X
- Air conditioned enclosure
- Forced air ventilation (NEMA 1 only)
- Enclosure interior lighting
- GFCI Outlet in Controller Enclosure

Type of Operation:

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

Communication Cable Lengths:

Allow for 3ft extra at each end for controller hookup

- Car 1 to 2:* _____ ft *Car 2 to 3:* _____ ft
- Car 3 to 4:* _____ ft *Car 4 to 5:* _____ ft
- Car 5 to 6:* _____ ft *Other:* _____

- Cross Registration Panel
Existing Controller Prints Required
- Swing Car Operation: *Car(s):* _____
- Key switch in car Key switch in hall
- Automatically switch when IR call is registered

Fire Service Operation:

- Fire Service: Yes (standard) No
- Phase I Keyswitch:* 3 position 2 position
- Phase II Keyswitch:* 3 position 2 position
- Main Recall Floor Landing #:* _____
- Doors will open at:* Front Rear
- Alt. Recall Landing #:* _____
- Doors will open at:* Front Rear
- Additional Fire Recall Switch:
Location Landing #: _____

Inspection/Hoistway Access:

- In-Car Inspection Operation
Requires Enable, Up, & Down Buttons in-car
- Hoistway Access Operation
- Top access switch (top landing):
Location: Front Rear
- Bottom access switch (bottom landing):
Location: Front Rear
- Only Top/Bottom Access Available*
- Up-Down Access Switches in:* Hall Station Door Jamb
- Other:* _____
- 2-position Access Enable Switch
- 2-position In-Car Inspection Switch
- 3-position Inspection and HW Access switch

Note - Non-NEMA1 Car Top Inspection Stations supplied by customer

Additional Hoistway Accessories

- Retractable Ladder
- Hoistway Illumination

- Independent Service Switch: Car (std.) Hall
- Attendant Operation Annunciator panel in car
- Sabbath Operation
- Car to Lobby Switch: Car Hall Other _____
- Cancel car calls immediately Answer new car calls
- Park with doors: Open Closed

Return Landing #: _____

- Parking: Single Car All Cars *Return Landing #:* _____
- Park with doors: Open Closed
- Pit Flood Operation
Return Landing #: _____ *Top Limit Landing #:* _____
- Fan & Light Timer Operation (Elevator Cab)

Earthquake Operation:

- Car Runs at Reduced Speed During Earthquake*
*Requires Hoistway Scan Switch & Indicators for ASME A17.1 2016+
- Seismic switch Counterweight derailment device

Emergency Power Generator

- E.P. contact during normal op.* Open Closed
- Power pre-transfer contact
- Sequential lowering (standard)
- Simultaneous Lowering
- Number of cars to run simultaneously: _____
- Manual select switch:
of Positions: _____ *Labels:* _____

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):* _____

EMT/Emergency Medical Technician Service (Mass Only):

- Return Landing #:* _____
- Patient Security (Code Pink)
Patient Security Landing #'s: _____
5 Landings Maximum

Load Weighing: By EC Mfg: _____

- Rope Tension: *Rope Size* _____ *Rope Qty.* _____
- Isolated platform: *Car Weight:* _____
- Crosshead Deflection
- Dry contact load weigher signals (not for pre-torque):
 Hall call bypass Anti-nuisance Overload

Security:

- Call lockout: (indicate landings served on page 2)
- Car: Card Reader Key Other: _____
- Hall: Card Reader Key Other: _____
- Car call security via car call button code entry
- Car Call lockout override switch: Car (std) Hall
- Hall Call lockout override switch: Car Hall (std)
- Bypass Security When On:
 Independent Service Attendant Service

Indicators

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

Car Call Registration:

Pixel Standard - CAN communication to COP

of car stations per car: _____

Stop Switch in Aux COP

Hall Call Registration:

Pixel Standard - CAN communication to HALL

Hall Calls through CAN Communication

Hall Calls through discrete I/O

Number of hall call risers: Front: _____ Rear: _____

If more than 2 hall call risers, please explain on page 7

Car PI:

- | | |
|-------------------------------------------------|------------------------------------------|
| <input type="checkbox"/> C.E. Micro Comm 3-wire | <input type="checkbox"/> E-Motive 3-wire |
| <input type="checkbox"/> ECC DL-20/EX-51 | <input type="checkbox"/> E-Motive - CAN |
| <input type="checkbox"/> MAD - CAN | <input type="checkbox"/> VEGA - CAN |
| <input type="checkbox"/> 4.3" Giotto | <input type="checkbox"/> 7" Giotto |
| <input type="checkbox"/> 7" Matisse | <input type="checkbox"/> 10" Matisse |
| <input type="checkbox"/> 2.8" Raffaello | <input type="checkbox"/> 4.3" Raffaello |
| <input type="checkbox"/> Other: _____ | <input type="checkbox"/> Line Per Floor |

Hall PI:

- | | |
|-------------------------------------------------|------------------------------------------|
| <input type="checkbox"/> All Floors | <input type="checkbox"/> Lobby Only |
| <input type="checkbox"/> C.E. Micro Comm 3-wire | <input type="checkbox"/> E-Motive 3-wire |
| <input type="checkbox"/> ECC DL-20/EX-51 | <input type="checkbox"/> E-Motive - CAN |
| <input type="checkbox"/> MAD - CAN | <input type="checkbox"/> VEGA - CAN |
| <input type="checkbox"/> 4.3" Giotto | <input type="checkbox"/> 7" Giotto |
| <input type="checkbox"/> 2.8" Raffaello | <input type="checkbox"/> 4.3" Raffaello |
| <input type="checkbox"/> Other: _____ | <input type="checkbox"/> Line Per Floor |

Car Lanterns & Audible Indicators:

- Car lanterns: Chime Gong
- EC 3-wire C.E. Micro Comm EC 3-wire Emotive
- Discrete via Pixel COP (24VDC,6W max.)
- Passing floor enable button ("S" button)
- Voice annunciation device
CE Micro Comm, Emotive 3-wire or CAN driven only

Hall Lanterns:

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

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

<input type="checkbox"/> 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"/> Heavy load light (Hall)
<input type="checkbox"/> Hospital service light (COP)
<input type="checkbox"/> Hospital service buzzer (COP)
<input type="checkbox"/> In-use Lights (Freight Only)
<input type="checkbox"/> Overload light / buzzer (COP)
<input type="checkbox"/> Duplicate Emergency Stop Bell at Lobby
<input type="checkbox"/> Lobby control panel (provide fixture prints/details)
<input type="checkbox"/> Fire control panel (provide fixture prints/details)

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: _____

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: _____

Top of Car to COP Wiring Harness

- 15' Harness (standard) 25' Harness

Additional Comments: _____

Door Information

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: _____

 Electric Door Restrictor
 Brand: _____ Model: _____

Automatic Passenger Door Operators:
 Place an "X" in the appropriate box(es) to indicate door operator (F = Front and R = Rear).

F	R				
<input type="checkbox"/>	<input type="checkbox"/>	GAL MOVFR:	<input type="checkbox"/> 230V	<input type="checkbox"/> 115V	
<input type="checkbox"/>	<input type="checkbox"/>	GAL MOVFE:	<input type="checkbox"/> 230V	<input type="checkbox"/> 115V	
<input type="checkbox"/>	<input type="checkbox"/>	GAL MOVFE CAN bus:	<input type="checkbox"/> 230V	<input type="checkbox"/> 115V	
<input type="checkbox"/>	<input type="checkbox"/>	GAL MOD (shunt wound):	<input type="checkbox"/> 230V	<input type="checkbox"/> 115V	
<input type="checkbox"/>	<input type="checkbox"/>	GAL MODPM:	<input type="checkbox"/> 230V	<input type="checkbox"/> 115V	
<input type="checkbox"/>	<input type="checkbox"/>	GAL MOM / MOH			
<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"/>	<input type="checkbox"/>	Atlantic Tech	<input type="checkbox"/> 9001	<input type="checkbox"/> 9003	<input type="checkbox"/> VFE2500
<input type="checkbox"/>	<input type="checkbox"/>	Torin/Standard FX1C			
<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"/> LD16	<input type="checkbox"/> HDLM	<input type="checkbox"/> PA LULA
<input type="checkbox"/>	<input type="checkbox"/>	Fermator VVVF5			
<input type="checkbox"/>	<input type="checkbox"/>	IPC	<input type="checkbox"/> Encore	<input type="checkbox"/> D2000	<input type="checkbox"/> D3000
<input type="checkbox"/>	<input type="checkbox"/>	KONE AMD* / ReNova* / MidiSupra*			
<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"/>	Otis 6970A (Reactance)			
<input type="checkbox"/>	<input type="checkbox"/>	R&R	<input type="checkbox"/> DC244	<input type="checkbox"/> DC2000	
<input type="checkbox"/>	<input type="checkbox"/>	Schindler QKS:	<input type="checkbox"/> 14	<input type="checkbox"/> 15	
<input type="checkbox"/>	<input type="checkbox"/>	Other:*	_____		

Hoistway Door Type:
 Automatic passenger (horizontal sliding)
 Automatic freight (vertical sliding)
 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: _____

*Please send/provide door operator wiring diagrams.

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

Power Freight Doors:
 (Non-Courion/Peelle Freight Door Operator wiring diagrams must be sent to EC)
 Courion: MP iLearn
 Peelle: PLC Wireless
 EMS (provide prints)
 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
For Courion iLearn Only:
 iLearn Module to be Shipped to EC By Customer?
 Yes No

Notes: _____



Machine Room Data Hydraulic



Line Voltage: _____ (measured)
 AC 3 phase (symmetrical with respect to ground)
 AC single phase*
 60 Hz 50 Hz
 *Single phase applications require across the line starters
 Brown Out Circuit
 Surge Suppressor

Hydraulic Pump Motor Data:
 Existing New New from EC
 Brand: _____ Model: _____
HP: _____ **FLA:** _____
Voltage: _____ VAC, 3 Phase, 60Hz
 Measured Data sheet
Motor Leads: 3/9 6/12
 Multiple pump motors:
 Number of motors: 2 Other: _____
 Number of disconnects: 1 2 Other: _____
 Sequential Starting (standard)
 Simultaneous Starting
 Note: Standard - no single motor operation.
 Number of starts/hour rating: 80 (standard) 120

Motor Starting:
Starter Options:
Soft Starters
 No Preference (first available - standard)
 Sprecher+Schuh Siemens
Contactors
 WYE-Delta ATL (across the line)
 Other*: _____
 *Wiring diagrams are required.

Valve Data:
Brand: Maxton EECO Blain
 TKE/Dover Bucher GMV
 Other: _____
Model: _____
Number of valves:
 1 (standard) 2 3 4
 Other: _____
Coils per valve:
 1 2 3 4 (standard)
 Other: _____
Valve voltage:
 120VAC (standard)
 Other*: _____ *May Incur Additional Cost
For Bucher Valves Only:
Control Board to be Shipped to EC By Customer?
 Yes No

Additional Requirements:
 Low oil switch
 Viscosity control
 Pressure switch
 Tank Heater Oil Cooler
 *Supplied by Vantage?** Yes No
 *EC can only supply power to Vantage Supplied Tank Heaters
 Synchronizing circuit for dual and telescopic pistons
 Load Weighing Interface
 Brand/model: _____
 Roped hydraulic unit:
 Make: _____ Describe: _____
Governor with remote set & reset solenoids:
 Yes No (standard)
Coil Voltage: AC DC *FLA:* _____
 Electrical schematic required for set reset solenoids

Battery powered lowering device:
 By EC Customer-supplied*
 *If customer-supplied, model: _____
Door Type: Passenger doors Power freight doors**
 Mount inside controller at factory (standard)
 Remote-mounted
 *Due to electrical certification requirements, a battery lowering unit that is not installed by the factory shall not be mounted inside the controller
 **All Freight battery lowering units will be remote-mounted

NEMA 1 Enclosure Sizes:
 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 available.
 30"H x 36"W x 8"D (wall mount & lift off door)
 38"H x 36"W x 12"D (wall mount & lift off door)
 48"H x 36"W x 14"D (wall mount & lift off door)
 Hinged door option*
 *Only available for 38"H x 36"W x 12"D enclosure
 Legs for floor-mounting a wall-mount enclosure
 8.84" (single) 17.68" (double)
 Machine room space limitations _____ H _____ W _____ D
Explain: _____

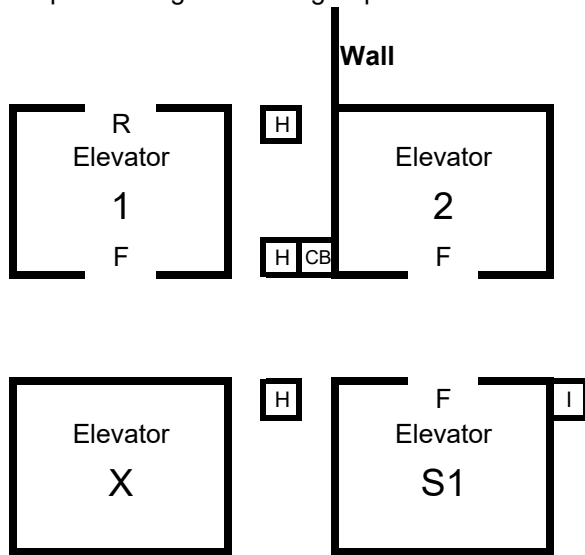
Additional Information:

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.



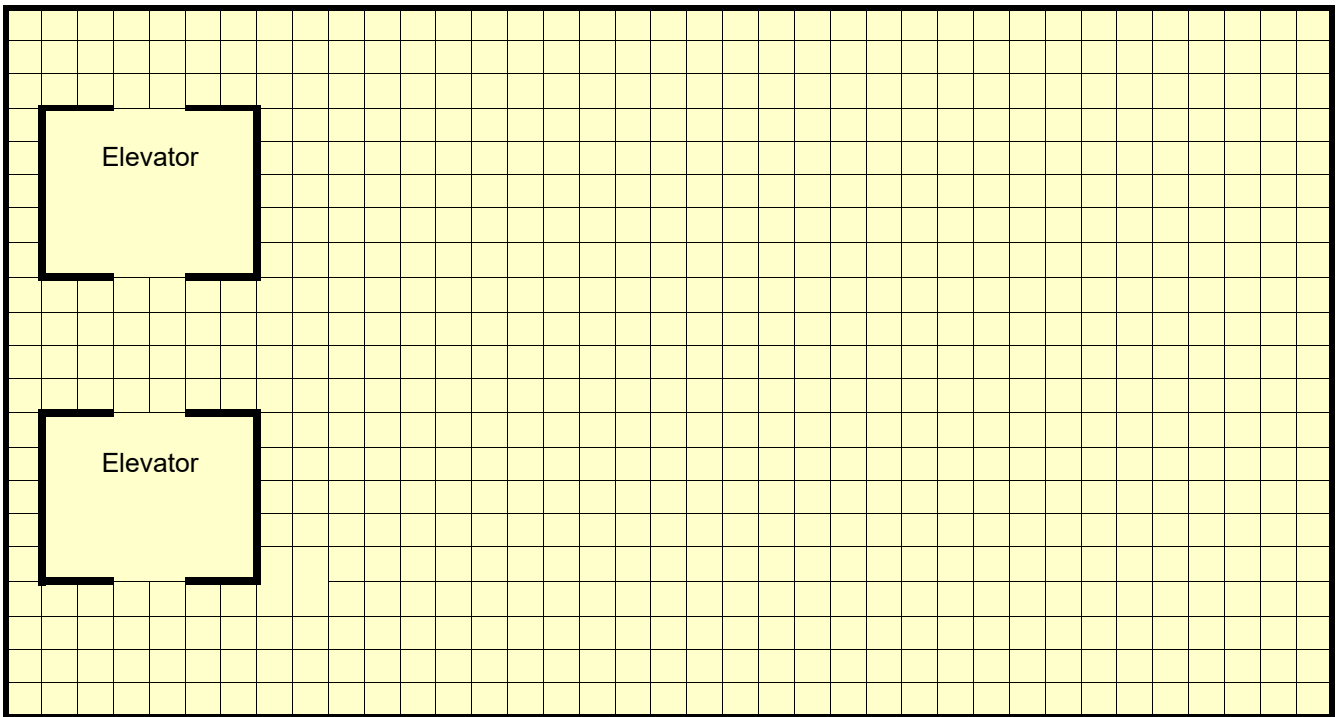
Door openings:
 F = Front opening
 R = Rear opening

Notes: _____

Hall Call Risers:

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

Notes: _____



Special instructions: _____

Monitoring Data

Job Name:

EC Job Number:

Monitoring Interface:

- Machine Room Monitoring
 - Web-Interact (std)* *Liftnet (IDS)*
 - Schindler CB3 (via Ethernet)*
- Interfaces to 3rd Party Monitoring Systems
 - Kings III*
 - Schindler Lobby Vision (dry contact interface)*
 - Mitsubishi MeEye (dry contact interface)*
 - Other (describe in Special Instructions):*
- Rio Cyber Security Interface

Communication Cable Lengths:

Allow for 3ft extra at each end for controller hookup

- PC to Car 1:* ft *PC to Car 2* ft
- PC to Car 3:* ft *PC to Car 4* ft
- PC to Car 5:* ft *PC to Car 6* ft
- Other:*

Monitoring Options

- Remote Monitoring
- Desktop PC Quantity:
- Laptop PC Quantity:
- LCD flat screen (standard)
- Other:

Remote workstation location(s):

- Lobby Security room
- Fire control room Concierge desk
- Other:

Communication media:

- Ethernet
- Line driver: By EC Others
- MR to Remote Station Distance:*
- *If distance is longer than 300ft. repeaters are required.
- Printers Quantity:

Special Instructions:

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

