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HYDRO:EVOLVED

Warning: Review Before Submittal

- Failure to Provide Accurate and Complete Information could result in the following: Delayed Controller Shipment, Price Change , and Incurred Engineering Charges.
- If a job specification is included, you must complete the 'Build to Job Specification' section on page 3.
- All Fixtures must be 24 VDC / 6 Watts Max.
- If a category is not completed, the default option will be assumed.

Hydraulic - Table of Contents

This document can be edited, saved, and submitted electronically using Adobe Reader.

Job Details

Job Name: _____
PO #: _____
Job Location (City & State): _____

Market Segment:
- ☐ Federal
- ☐ Education
- ☐ Health Care
- ☐ Hospitality
- ☐ Financial
- ☐ Residential
- ☐ Other

Purchasers Information: (If Packager, Fill in End User Info on Right)

Name: _____
Title: _____
Company: _____
Phone: _____ Fax: _____
Cell: _____
Email: _____

Engineering Contact Information: (If different than above)

Name: _____
Phone: _____ Fax: _____
Cell: _____
Email: _____

_____ Date Filled Out

End User Information: (For Packager Use Only)

Name: _____
Title: _____
Company: _____
Phone: _____ Fax: _____
Cell: _____
Email: _____

Job Site Address: (Address Where Controller(s) Will Be Installed)

Street: _____
_____
City: _____
State: _____
Zip Code: _____

Building Owner/Manager Information

Name: _____
Phone: _____
Email: _____
Street: _____
_____
City: _____
State: _____
Zip Code: _____

Shipping and Pre-Wire

Shipping Information

Contact Name: _____

Phone: _____ _____

Contact Fax/Email: _____

Smartrise Call Prior to Shipping: ☐ Yes ☐ No

Carrier Call for Delivery Appointment: ☐ Yes ☐ No

Lift Gate Required: ☐ Yes ☐ No

Freight Terms

Use Smartrise Carrier: ☐ Yes ☐ No

☐ Will Call

☐ Pre-paid

Customer's Carrier Name: _____

Carrier's Account Number: _____

☐ Collect ☐ Third-Party

Third-Party Billing (Duties & Taxes)

_____

Ship to Name/Company: _____

Shipping Address: _____

Bill To Address: _____

Shipping Schedule

Controller(s)	Desired Ship Date from Smartrise	Controller(s)	Desired Ship Date from Smartrise

Note: Desired ship date from Smartrise is not an arrival date.

Additional Shipping Instructions

Pre-wire Fixtures (Must be 24 VDC / 6 Watt Max)   Not Required ◯

Pre-wire COP Boards: ☐ Yes ☐ No (Default)

Pre-wire Hall Boards: ☐ Yes ☐ No (Default)

Fixture Manufacturer

☐ Dupar ☐ ERM ☐ Monitor ☐ Other

☐ ECC ☐ Innovation ☐ PTL

☐ EPCO ☐ MAD ☐ SEES

☐ Elevator Cabs and Surfaces

Company Name: _____

Ship to Address: _____

Job Reference: _____

Contact Person at Mfg. _____

General Controller Information

Electrical Main Line and Transformer Specification

Main Line Specification:

☐ Main Line Volts (Transformer required if there is more than a 10% difference between the main line and motor volts)

☐ Three Phase (Default)

☐ VAC L1 to GND   ☐ VAC L2 to GND   ☐ VAC L3 to GND

☐ Single Phase

☐ Hz (Main Line is 60Hz unless otherwise stated)

Main Line Transformer (If Customer Requires)

☐ Provided by Smartrise (Aluminum Isolation Transformers are standard)

☐ Provided By Customer (Customer to provide drawing)

☐ Secondary Voltage

☐ kVA

☐ Data Plate Copy Included

Environmental Considerations — Not Required ◯

☐ Controller Cabinet Air-pressure cooled (Add Vortex) (Customer to provide Air Compressor)

☐ Controller Cabinet Air conditioned cooled (Add A/C Unit) Controller

☐ Cabinet Forced Air cooled (Add fan and filter)

☐ Arc Flash Protection

☐ Special attention to hoistway shaft (Provide details in notes below)

☐ Outdoor or Hostile (Industrial Environment)

Machine Room Controller Cabinet NEMA Rating:

☐ 1 (Default)   ☐ 4   ☐ 4X   ☐ 7   ☐ 12

Top of Car Enclosure NEMA Rating:

☐ 1 (Default)   ☐ 4   ☐ 4X   ☐ 7   ☐ 12

Landing System NEMA Rating:

☐ 1 (Default)   ☐ 4   ☐ 4X   ☐ 7   ☐ 12

*NEMA 4/4X requires ELGO Landing System

Car Operating Panel

☐ Single Panel (Default)   ☐ Dual Panels

☐ Remote COP (Discrete in M/R)

Is the CE Elite Touch Screen required?

☐ Yes   ☐ No

*NOTE: CE should provide CE3868 board

Notes and Special Instructions

Configuration

☐ Simplex   ☐ # Cars

☐ Group   ☐ # Cars in Group   ☐ # of Hall Risers/Group

☐ Swing Riser, Car # ☐

☐ Selective Collective (2 buttons/floor, multiple calls) (Default)

☐ Non-Selective Collective (1 button/floor, multiple calls)

☐ Non-Selective Non-collective (1 button/floor, 1 call at a time)

Other:_____

Build to Job Specifications — Not Required ◯

☐ We will review the spec and provide a list of exceptions, when necessary

☐ Job needs to be built to meet Engineering Specifications in Document provided EXCEPT those listed below (Provide page/section and description of exceptions)

ASME 17.1 Elevator Safety Code Compliance

☐ 2022
☐ 2019
☐ 2016
☐ 2013
☐ 2010
☐ 2007
☐ 2004
☐ 2000

Additional Local Code

☐ NYC (Appendix K)   ☐ Detroit
☐ No Fire Service   ☐ Massachusetts
☐ Ontario
☐ Florida

Connection Package (Run Box)

☐ SmartConnect Package – Recommended (Pre-Wired Car Top Inspection Box included)

☐ with Pendant Light
☐ with Switch Guards

Hydraulic Features, Motor, and Valve Data

Hydraulic Features(☐ Features for all cars are the same as car 1) Failure to provide data will result in delay of controller shipment   Not Applicable ◯

Car	Contract Speed	Capacity	Battery Lowering	Brown Out Reset	Dual Jacks	Viscosity Control	Adams Life Jacket	Roped	GOV Reset Coil Is 24 VDC	GOV Reset Coil Is 120 VAC	Governor is Manuallay Reset
1			☐	☐	☐	☐	☐	☐	☐	☐	☐
2			☐	☐	☐	☐	☐	☐	☐	☐	☐
3			☐	☐	☐	☐	☐	☐	☐	☐	☐
4			☐	☐	☐	☐	☐	☐	☐	☐	☐

Low Pressure, Low Oil, and Oil Temp are all included.   Only if Roped Hydro

Motor & Valve Data(☐ Data for all cars is the same as car 1) Failure to provide data will result in delay of controller shipment

Car	# Motor Leads	Motor Volts	FLA	HP	Valve Brand/Model	Valve Volts	# of Motors	# of Valves	# of Coils per Valve (4 Standard)
1							☐1 (Default) ☐2 ☐Other	☐Single (Default) ☐Dual ☐Other	
2							☐1 (Default) ☐2 ☐Other	☐Single (Default) ☐Dual ☐Other	
3							☐1 (Default) ☐2 ☐Other	☐Single (Default) ☐Dual ☐Other	
4							☐1 (Default) ☐2 ☐Other	☐Single (Default) ☐Dual ☐Other	

Load Weighing   Not Required ◯

Load Weigher Provided By

☐ Smartise   ☐ Customer   ☐ Overload Lamp
☐ Anti-Nuisance

Hydraulic Motor Control Preference

☐ Sprecher+Schuh (Soft Starter)

☐ Siemens (Soft Starter) **(Default)**   ☐ First Available Soft Starter

☐ Wye-Delta (via Contactors)   ☐ First Available Contactors

☐ Across the Line (via Contactors)

We will notify you if the preference chosen cannot be honored

Notes and Special Instructions:

Features and Functions

Special Features — Not Required ◯

- ☐ Remote (2nd) Fire Key Switch & Lamp
- ☐ Earthquake (Includes Buzzer and Lamp)
- ☐ Car-to-Lobby Key Switch
- ☐ Fan and Light Auto Shutoff Circuit (CT only)
- ☐ Machine Room Cabinet Power Plug
- ☐ Inching Operation
- ☐ Shunt-Trip
- ☐ Flood Sensor
  - Specify Flood Floor (Label): ☐
- ☐ 'S' Button
- ☐ Machine Room Cabinet Light
- ☐ Enclosure Legs

Special Modes of Operation — Not Required ◯

- ☐ Independent Service (Default)
- Hoistway Access ☐ Yes (Default) ☐ No
- ☐ In-Car Inspection Switch

Medical Emergency Service (Provide floor(s) on page 8)
- ☐ Building is a Hospital with keys at every floor
  - In Car Buzzer, In Car Lamp, and Hallway Lamp at each Floor are Included
- ☐ Non-Hospital – Phase 1 key at main level only
  - In Car Buzzer and In Car Lamp are Included

- ☐ Sabbath (Attach Spec)
- ☐ Times
  - Start [ ] End [ ]
- ☐ Key Switch
- ☐ Patient Security
  - Specify Patient Security Floors (Labels): [ ]

Controller Monitoring System — Not Required ◯

Designed and Manufactured by Smartrise Engineering
- ☐ Machine Room Monitoring
- ☐ Local Monitoring (Lobby/Engineering/ Management)
- ☐ Remote Monitoring (Cloud) – Requires Internet Connection

Designed and Manufactured by Integrated Display Systems
- ☐ Lift-Net with USB RS-422 Interface (Serial)
- ☐ Lift-Net with Moxa Unit Interface (Ethernet / LAN)

Designed and Manufactured by Kings III of America
- ☐ ORM (Interface Only)
- ☐ BACnet

Monitoring Viewing Devices — Not Required ◯

All in On Computer
Lenovo AIO 1 Series   ☐ 27"

Tablet
Lenovo M Series   ☐ 8"   ☐ 11"

Notebook
Lenovo Idea Pad   ☐ 15"

Car Call Security (Specify floors on page 8) — Not Required ◯

- ☐ Using COP Floor Buttons as Code Entry
- ☐ Using Dry Contacts from Card Readers and/or Key Switches
  - ☐ Input in Car Station (Default)   ☐ Inputs in Machine Room
- ☐ Override Security When on Independent Service or Attendant Serviced
- ☐ Provide a Car Call Security Override Input
  - ☐ Input in Car Station   ☐ Input in Machine Room
- ☐ Door Open Functions on Secured Landings

Notes
[ ]

Hall Call Security — Not Required ◯

- ☐ Provide Enable/Disable all Hall Calls Input (Simplex)
- ☐ Provide a Hall Call Security Overide Input (Per floor)
  - ☐ Dry Contacts in Hall Fixtures (Default)   ☐ Signal in Machine Room

Attendant Service — Not Required ◯

- ☐ Attendant Service (Is NOT Independent Service)
  - ☐ In Car Buzzer   ☐ In Car Lamp
  - Choose 1: ☐ Hall Call Above/Below Lamps (Default)
  - ☐ Non-Directional All Hall Call Lamps
    - Requires Discrete Connection from CT to COP Panel Per Landing
  - Other: _____

Emergency Power (If Generator Cannot Run All Cars) — Not Required ◯

E.P. Contact from Generator is
- ☐ Normally Open   ☐ Normally Closed

Power Pre-Transfer Contact from Generator is
- ☐ Normally Open (Default)   ☐ Normally Closed   ☐ Not Present

- ☐ Emergency Power Car Selector Switch
  - ☐ Single Car Selection (Default)   ☐ Multiple Car Selection

This section applies to the sequencing of elevators when a combination of multiple machine room, groups and simplexes are in the same building.

Number of cars the generator can power *simultaneously*: [ ]

Answer the below only if this generator powers other cars (not included in this job):

Number of Smartrise Cars: [ ] Simplexes   [ ] Groups
* Provide Smartrise Job Numbers: [ ]

• Traveler and Hoistway Cable (Purchase from Smartrise)

Not Required ◯

	Traveler Cable #1 ☐	Traveler Cable #2 ☐	Traveler Cable #5 ☐
# OF CONDUCTORS	19	31	69
CORE	Steel	Steel	Steel
DIAMETER	0.90"	1.36"	1.570"
# OF 14 AWG	4	4	5
# OF 18 AWG	7	14	40
# OF 20 AWG SHIELD	4 Pair	6 Pair	11 Pair
COAXIAL (RC/6U)	No	1	2
APPROVALS/BOTH	UL Type ETT> NEC Compliant, CSA Type ETT, CSA FT1		

Length of Cable(s) Per Car (in feet)

Car 1
Car 2
Car 3
Car 4
Car 5
Car 6

Hoistway Cable ☐
26
N/A
0.55"
0
26
0
0
No

• All Fixtures Must Be 24 VDC / 6 Watts Max.

In Car Position Indicator

Not Required ◯

☐ CE Micro Com (Default)
☐ MWSF: Hands Free
☐ VIDATECH (CAN)
☐ Discrete Signals (One line per floor)
☐ Discrete Signals (Binary)
☐ MAD (CAN)

Other: _____

In Car Arrival Lantern

Not Required ◯

☐ CE Micro Com (Default)
☐ MAD (CAN)
☐ Discrete Signals
Bulb/Chime wattage (If discrete): [____]

Other: _____

In Car Passing Chime

Not Required ◯

☐ CE Micro Com (Default)
☐ Discrete Signal
Bulb/Chime wattage (If discrete): [____]

In Hall Position Indicator

Not Required ◯

☐ CE Micro Com (Default)
☐ VIDATECH (CAN)
☐ Discrete Signals (One line per floor)
☐ Discrete Signals (Binary)
[____] # of Floors with Hall Position Indicators
☐ MAD (CAN)
☐ MWSF: Hands Free

Other: _____

In Hall Arrival Lanterns

Not Required ◯

☐ First Floor Only (Discrete)
☐ CE Micro Com Lanterns (Type: SA130M Req.)
☐ All Floors (Smartrise Hall Boards)
☐ If Lamps/Gongs are not 24 VDC / 6 Watt (Explain below)

[   ]

Lobby Panel

Not Required ◯

☐ Door Open Lamp
☐ On Independent Svc. Lamp
☐ Out of Service Lamp
☐ Battery Lowering Lamp
☐ Emergency Power Lamp
☐ In Use Lamp
☐ In Service Lamp
☐ Normal Power Lamp
☐ At Recall Lamp

Other Requirements

[   ]

Car Door

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Front Door Type

	All	Car 1	Car 2	Car 3	Car 4
Use this door for all cars or specify which cars use it	☐	☐	☐	☐	☐

Hall Door Type

☐ Auto Passenger (Default) ☐ Manual

Car Door Type

☐ Auto Passenger (Default) ☐ Manual (See ♦ below) ☐ Powered Freight (See * below)

Select Door Operator

	Mfr	Model	Description
☐	Abell	ATS 0090	Field "EZ"
☐	Fermator	VVVF5	Linear Door Operator
☐	GAL	MODCTL	24 VDC Interface Relays
☐	GAL	MOD	(L, G, or X) Motor Armature Voltage: ____
☐	GAL	MOVFR	Input Voltage: ☐ 230 VAC ☐ 120 VAC
☐	GAL	MOVFEE	Input Voltage: ☐ 230 VAC ☐ 120 VAC
☐	Kone	AMD	Input Voltage: ☐ 230 VAC ☐ 120 VAC Model #: ☐ 1.5 ☐ 2.0
☐	Kone	Mac	104 or 105D Interface Board
☐	Kone	PMSSC	Input Voltage: ☐ 230 VAC ☐ 120 VAC 104 or 105D Interface Board
☐	Otis	AT400	120 VDC (Discrete Only & Power Supply by Smartrise)
☐	Otis	Glide A	220 VAC (Discrete Only)
☐	Otis	Glide P	220 VAC (Discrete Only)
☐	SEES	Smooth Operator	Input Voltage: ☐ 220 VAC ☐ 110 VAC
☐	TKE	Dover HD-03	Input Voltage: ____ (Only M Models)
☐	TKE	Dover HD-73	Motor Armature Voltage: ____ (Type D/IVO)
☐	TKE	Dover HD-91	Motor Armature Voltage: ____ (DC Motor)
☐	TKE	HD-85	Motor Armature Voltage: ____
☐	TKE	HDLM	Input Voltage: ____ AMPS: ____ Requires UIT_I/O Card
☐	TKE	LD-16	Input Voltage: ____
☐	TKE	ECI	Input Voltage: ____
☐	Wittur	Mini/Supra, SGV	Input Voltage: ☐ 230 VAC ☐ 120 VAC
☐	EMS		*Input Freight/Door Information at Bottom
☐	Courion		
☐	Peelle		
☐	Other		*Input Other Door Information at Bottom

☐ **Door Protection**

☐ Photo Eye/Light Curtain (Default) ☐ Mechanical Safety Edge ☐ Door Hold Button

♦ Manual Car Door CAM Type/Information

☐ Mechanical
☐ DC Volts ____ Amps ____
☐ AC (3-Phase) Volts ____ Amps ____
☐ AC (Single Phase) Volts ____ Amps ____

Rear Door Type

	All	Car 1	Car 2	Car 3	Car 4
Use this door for all cars or specify which cars use it	☐	☐	☐	☐	☐

Hall Door Type

☐ Auto Passenger (Default) ☐ Manual

Car Door Type

☐ Auto Passenger (Default) ☐ Manual (See ♦ below) ☐ Powered Freight (See * below)

Select Door Operator

	Mfr	Model	Description
☐	Abell	ATS 0090	Field "EZ"
☐	Fermator	VVVF5	Linear Door Operator
☐	GAL	MODCTL	24 VDC Interface Relays
☐	GAL	MOD	(L, G, or X) Motor Armature Voltage: ____
☐	GAL	MOVFR	Input Voltage: ☐ 230 VAC ☐ 120 VAC
☐	GAL	MOVFEE	Input Voltage: ☐ 230 VAC ☐ 120 VAC
☐	Kone	AMD	Input Voltage: ☐ 230 VAC ☐ 120 VAC Model #: ☐ 1.5 ☐ 2.0
☐	Kone	Mac	104 or 105D Interface Board
☐	Kone	PMSSC	Input Voltage: ☐ 230 VAC ☐ 120 VAC 104 or 105D Interface Board
☐	Otis	AT400	120 VDC (Discrete Only & Power Supply by Smartrise)
☐	Otis	Glide A	220 VAC (Discrete Only)
☐	Otis	Glide P	220 VAC (Discrete Only)
☐	SEES	Smooth Operator	Input Voltage: ☐ 220 VAC ☐ 110 VAC
☐	TKE	Dover HD-03	Input Voltage: ____ (Only M Models)
☐	TKE	Dover HD-73	Motor Armature Voltage: ____ (Type D/IVO)
☐	TKE	Dover HD-91	Motor Armature Voltage: ____ (DC Motor)
☐	TKE	HD-85	Motor Armature Voltage: ____
☐	TKE	HDLM	Input Voltage: ____ AMPS: ____ Requires UIT_I/O Card
☐	TKE	LD-16	Input Voltage: ____
☐	TKE	ECI	Input Voltage: ____
☐	Wittur	Mini/Supra, SGV	Input Voltage: ☐ 230 VAC ☐ 120 VAC
☐	EMS		*Input Freight/Door Information at Bottom
☐	Courion		
☐	Peelle		
☐	Other		*Input Other Door Information at Bottom

☐ **Door Protection**

☐ Photo Eye/Light Curtain (Default) ☐ Mechanical Safety Edge ☐ Door Hold Button

♦ Manual Car Door CAM Type/Information

☐ Mechanical
☐ DC Volts ____ Amps ____
☐ AC (3-Phase) Volts ____ Amps ____
☐ AC (Single Phase) Volts ____ Amps ____

*Freight/Other Door Operation Information

Manufacturer ____
Model ____
Reference #'s ____

Job Prints from Door Manufacturer are Required

Notes and Special Instructions:

Landings and Openings

Floor Information

	Floor Label	Floor Height
Overhead -> (Default 13ft)		
15		
14		
13		
12		
11		
10		
9		
8		
7		
6		
5		
4		
3		
2		
1		
Default PI labels **Pit ->** (Default 4ft)		

→ Main Fire/Lobby Floor
→ Alt Fire Floor

We will default to the lobby landing and the landing above for main and alternate fire floor respectively.

Floor Openings

	Car 1		Car 2		Car 3		Car 4	
	F	R	F	R	F	R	F	R
	☐	☐	☐	☐	☐	☐	☐	☐
	☐	☐	☐	☐	☐	☐	☐	☐
	☐	☐	☐	☐	☐	☐	☐	☐
	☐	☐	☐	☐	☐	☐	☐	☐
	☐	☐	☐	☐	☐	☐	☐	☐
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	☐	☐	☐	☐	☐	☐	☐	☐
	☐	☐	☐	☐	☐	☐	☐	☐
Pit								

☐ All cars same as Car 1
☐ All walk-through
☐ All front
Number of floors: ☐

Car Call Security

	Car 1		Car 2		Car 3		Car 4	
	F	R	F	R	F	R	F	R
	☐	☐	☐	☐	☐	☐	☐	☐
	☐	☐	☐	☐	☐	☐	☐	☐
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	☐	☐	☐	☐	☐	☐	☐	☐
	☐	☐	☐	☐	☐	☐	☐	☐
Pit								

☐ All cars same as Car 1
☐ All walk-through
☐ All front
Number of floors: ☐

Hall Call Security

	Car 1		Car 2		Car 3		Car 4	
	F	R	F	R	F	R	F	R
	☐	☐	☐	☐	☐	☐	☐	☐
	☐	☐	☐	☐	☐	☐	☐	☐
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	☐	☐	☐	☐	☐	☐	☐	☐
	☐	☐	☐	☐	☐	☐	☐	☐
Pit								

☐ All cars same as Car 1
☐ All walk-through
☐ All front
Number of floors: ☐

Hosp

F	R
☐	☐
☐	☐
☐	☐
☐	☐
☐	☐
☐	☐
☐	☐
☐	☐
☐	☐
☐	☐
☐	☐
☐	☐
☐	☐
☐	☐
☐	☐
Pit	

Destination Dispatch

F Kiosks QTY	R Kiosks QTY
☐	☐
☐	☐
☐	☐
☐	☐
☐	☐
☐	☐
☐	☐
☐	☐
☐	☐
☐	☐
☐	☐
☐	☐
☐	☐
☐	☐
☐	☐
Pit	

Note: Maximum of eight kiosks per floor

If mixed F/R please select boxes above.

☐ Include Hall Network CAT5 package
Controller (MR) to Hall Network (Hoistway) CAT5 Cable Length   ☐ 25 ft (Default)   ☐ 50 ft   ☐ 100 ft

Total Hoistway Height (ft)	
Car 1	
Car 2	
Car 3	
Car 4	

☐ All cars same as Car 1

Walkthrough Only: Top
F ☐ R ☐   Location of Hoistway Up/Dn Switch Car#s
_____ _____ _____ _____

Walkthrough Only: Bottom
F ☐ R ☐   Location of Hoistway Up/Dn Switch Car#s
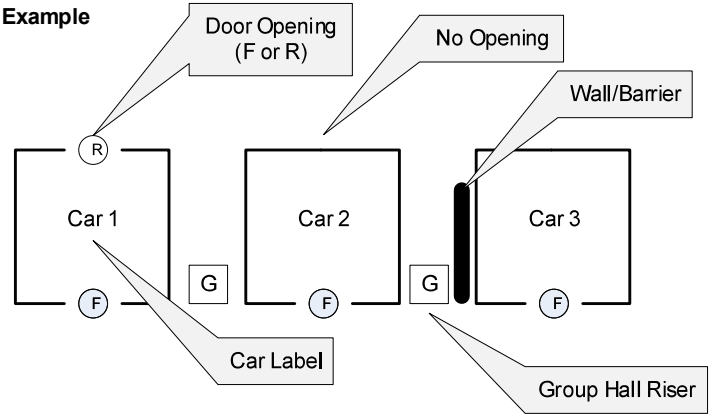_____ _____ _____ _____

Smart Dispatching   Not Required ◯

☐ Lobby Boost (Lobby Only)

Destination Dispatch   Not Required ◯

☐ Full (All Floors)

☐ Hybrid (Kiosks/Conventional Hall Riser Combination)

(See above and select the floors with Kiosks and the corresponding quantity of Kiosks required)

Notes and Special Instructions:

Overlay with Existing Equipment

☐ Cross Registration System

When you choose one of the above, a Smartrise engineer will contact you to gather details about the existing elevator controllers.

Important: Provide Physical Layout on Sheet 9

Elevator(s) Physical Layout

Example

Door Opening
(F or R)

No Opening

Wall/Barrier

R

Car 1

F

G
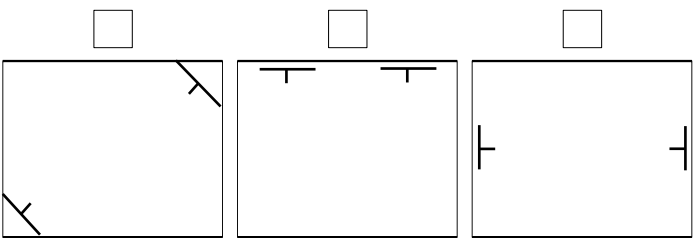
Car 2

F

G

Car 3

F

Car Label

Group Hall Riser

Draw a topographical map of elevator(s) location on grid provided.

* Accurately label each car by number/letter
* Mark openings a F (front) or R (rear)
* Label risers as:
    G = Group Riser
    I = Inconspicuous Riser
    H = Hospital Service Riser
* Draw in walls/barriers (heavy line)

Notes/Special Considerations

Hoistway Consideration

☐   ☐   ☐

Guide Rail Option

☐ T89

☐ T90

☐ T125

Other: _____