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C4 TRACTION AC

Engineering Data Form_ Page 1

Rev 18.0 300125

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 Specifications' 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.

TRACTION AC - Table of Contents					
1. Job Information	7. Car Door Data				
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3. General Controller Information	9. Landings and Openings (25-64)				
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6. Cables and Fixtures	12. Motor Purchase from Smartrise				

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

Job Details				
Job Name:		Market Segment:		Financial
PO#:		Federal	Health Care	Residential
Job Location (C	City & State):	Education	Hospitality	Other
Purchasers Info	ormation: (If Packager, Fill in End User Info on Right)	End User Information:	(For Packager Use (Only)
Name:		Name:		
Title:		Title:		
Company:		Company:		
Phone:	Fax:	Phone:	Fax	C.
Cell:		Cell:		
Email:		Email:		
Name: Phone: Cell: Email:	Fax: Date Filled Out	Street: City: State: Zip Code:		
Building Owner	r/Manager Information			
Name:				
Phone:				
Email:				
Street:				
City:				
State:				
Zip Code:				

Shipping and Pre-Wire

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Shipping Information	Kev 16.0 300125
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	
Ereight 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 S	martrise Controller(s) Desired Ship Date from Smartrise
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	Company Name:
Dupar ERM Monitor Other	Ship to Address:
ECC Innovation PTL	
EPCO MAD SEES	
Elevator Cabs and Surfaces	
Job Reference:	Contact Person at Mfg.

General Controller Information

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Electrical Main Line and Transformer Specification	Configuration
Main Line Specification: Main Line Volts (Transformer required if there is more than	Simplex # Cars
a 10% difference between the main line and motor volts) Three Phase (Default)	Group # Cars in Group # of Hall Risers/Group
vac L1 to GND vac L2 to GND vac L3 to GND	Swing Riser, Car #
Single Phase	Selective Collective (2 buttons/floor, multiple calls) (Default)
Hz (Main Line is 60Hz unless otherwise stated)	Non-Selective Collective (1 button/floor, multiple calls)
Main Line Transformer (If Customer Requires)	Non-Selective Non-collective (1 button/floor, 1 call at a time)
Provided by Smartrise(Aluminum Isolation Transformers are standard) Provided By Customer (Customer to provide drawing)	Other:
Secondary Voltage	
kVA	Build to Job Specifications Not Required
Data Plate Copy Included	We will review the spec and provide a list of exceptions, when necessary
Environmental Considerations Not Required	Job needs to be built to meet Engineering Specifications in Document provided EXCEPT those listed below (Provide
Controller Cabinet Air-pressure cooled (Add Vortex) (Customer to provide Air Compressor)	page/section and description of exceptions)
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:	ASME 17.1 Elevator Safety Code Compliance
$\Box 1 \text{ (Default)} \qquad 4 \qquad 4X \qquad 7 \qquad 12$	2022 Additional Local Code
	2019
Top of Car Enclosure NEMA Rating:	2016
1 (Default) 4 4X 7 12	2013
Landing System NEMA Rating:	2010 NYC (Appendix K) Detroit
☐ 1 (Default)	2007 No Fire Service Massachusetts
*NEMA 4/4X requires ELGO Landing System	2004 Ontario
	2000 Florida
Car Operating Panel	
Single Panel (Default) Dual Panels	
	Connection Package (Run Box)
Remote COP (Discrete in M/R)	
Is the CE Elite Touch Screen required?	SmartConnect Package – Recommended (Pre-Wired Car Top Inspection Box included)
Yes No	with Pendant Light
*NOTE: CE should provide CE3868 board	with Switch Guards
Notes and Special Instructions	

Traction Features, Motor Data, Encoder Data, and Brake Data

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Traction Features (
Car	Contract Speed	Capacity	Motor Provided By	Regen Kit	Batt	ery Res	cue	Gov Re	eset Coil Is	Governor is Manually Res			Loca	ation
1			Smartrise			escue Ope I Brake Re quired					Geard Geard			erhead ement
2			Smartrise			escue Ope I Brake Re quired					Geard Geard			erhead ement
3			Smartrise			escue Ope I Brake Re quired					Geard Geard			erhead sement
4			Smartrise			escue Ope I Brake Re quired					Geare Gearl			erhead sement
					*Exce	pt encode	rs and cab	oles for PM						
Moto	or Data (🗌 Data	for all cars are t	he same as c	ar 1) <mark>Fa</mark>	ailure to p	orovide d	data will	result in	delay of c	ontroller shipme	ent			
Car	Machine	Brand/Model	Motor Volts	FLA	HP	RPM	Motor Freq.	# of Poles	PM Accel Volts		otor Type	* Rope Ratio	Sheave Dia.	<mark>⊁</mark> Gear Ratio
1											uction Motor manent Magnet			
2											uction Motor manent Magnet			
3											uction Motor manent Magnet			
4										Ind	uction Motor manent Magnet			
Eno	oder Data (Da	ita for all cars are	a the same a		Eailura t	o provid	o data y	vill rocult	in dolay a	·	÷			
Car	Encoder Provid	ed By Custo	omer Supplied	1		Enc Cbl Le		Enc Shaft Di	Sine/	Cosine Encoder	ment			
1		None	ncoder Info Make	Encou					u					
2		None												
3	Smartrise*	None None nfo in notes)	Model											
4	Smartrise*	None nfo in notes)												
Brak	e Data (🗌 Data	for all cars are t	he same as o	car 1) F	ailure to	provide	data wi	ll result in	delay of	controller shipm	ent			
Car	DC	Pick Volt		Coil	Coil			Eme	rgency (2	nd) Brake		Independent		
		(DC or AC	C) (DC Only) R	esistance	Amperage		VAC Holl	ister-Whitney	/ Rope Gripp	er Independ	lent 2nd	Pick VDC Hold V		Coil Amp
1	DC (Default)					Dra	ka Rope E in Sheave	Brake			e on Motor			
2	DC (Default)					Dra	VAC Holl ka Rope E in Sheave		y Rope Gripp		lent 2nd e on Motor			
3	DC (Default)					Dra	VAC Holl ka Rope E in Sheave		y Rope Gripp	·	lent 2nd e on Motor			
4	DC (Default)					Dra	VAC Holl ka Rope E in Sheave		y Rope Gripp		lent 2nd e on Motor			
						Hollis	ster-Wh	itney Rop	e Gripper	if NOT 120 VA	C . Specify V	oltage:		
	or Control Prefere					Filte	rs							
	^t K.E.B K.E.B. dr Magnetek	ives require this	data to be pr	ovided			ne Rea	ctor	;					

EMI/RFI Filter

Harmonic Filter

Magnetek

First Available Drive (Not Quatro)

Magnetek Quattro AC

We will notify you if the preference chosen cannot be honored

Notes and Special Instructions

Features and Functions

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Special Features	Not Required 🔘	Car Call Security (Specify floors on page 8)	Not Required
Remote (2 nd) 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 Reduced Stroke Buffer (Ontario Only) 2nd Final Limit (MRL Only) Special Modes of Operation Independent Service (Default) Hoistway Access Yes (Default) No In-Car Inspection Switch	Shunt-Trip Flood Sensor ify Flood Floor (Label): 'S' Button Machine Room Cabinet Light Enclosure Legs Inching Operation	Using COP Floor Buttons as Code Entry Using Dry Contacts from Card Readers and/ Input in Car Station (Default) Inputs in Machine Override Security When on Independent Serviced Provide a Car Call Security Override Input Input in Car Station Input in Machine R Door Open Functions on Secured Landings Notes	Room vice or Attendant
Medical Emergency Service (Provide floor(s) on p	age 8)]
Building is a Hospital with keys at every floor		Hall Call Security	Not Required
In Car Buzzer, In Car Lamp, and Hallway Lamp at each F Non-Hospital – Phase 1 key at main level on In Car Buzzer and In Car Lamp are Included Sabbath (Attach Spec) Times		Provide Enable/Disable all Hall Calls Input (Si Provide a Hall Call Security Overide Input (Pe Dry Contacts in Hall Fixtures (Default) Signal in Mac	er floor)
Start End		Attendant Service	Not Required
Key Switch Patient Security Specify Patient Security Floors (Labels): Controller Monitoring System Designed and Manufactured by Smartrise Engineerin	Not Required O	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 Other:	
Machine Room Monitoring	<u>e.</u>	Emergeney Devier (If Constants, Connet Due All C	are) Not Paguirod
Local Monitoring (Lobby/Engineering/ Manage Remote Monitoring (Cloud) – Requires Internet Designed and Manufactured by Integrated Display 3 Lift-Net with USB RS-422 Interface (Serial) Lift-Net with Moxa Unit Interface (Ethernet / LA Designed and Manufactured by Kings III of America ORM (Interface Only) BACnet Monitoring Viewing Devices All in On Computer Lenovo AIO 1 Series	et Connection Systems	Emergency Power (If Generator Cannot Run All Call E.P. Contact from Generator is Normally Open Normally Closed Demergency Power Car Selector Switch Single Car Selection (Default) Multiple Car Selection This section applies to the sequencing of elevators w multiple machine room, groups and simplexes are in Number of cars the generator can power simultaneously Answer the below only if this generator powers other this job): Number of Smartrise Cars: * Provide Smartrise Job Numbers:	Not Present when a combination of the same building.
Tablet Lenovo M Series 8" Notebook 15"	11"		

Cables and Fixtures

				Not Required
				Horrioquilou
19 Steel 0.90" 4 7 8 Par No UL Type E	31 Steel : 1.36" 1 4 14 6 Pair 1 1 TT>NEC Compliant,	59 eel 57 0'' 5 10 Pair	Length of Cable(s) Per Car (in feet) Car 1 Car 2 Car 3 Car 4 Car 5 Car 6	C4 Hoistway Cable 26 N/A 0.55" 26 0 0 No
st Be 24	VDC / 6 W	atts I	Max.	
	Not Required	2	In Hall Position Indicator	Not Required
Discrete Si	gnals (Binary))		VIDATECH (CAN) # of Floors with Hall Positio Indicators Other:	MWSF: Hands Fr
	-		First Floor Only (Discrete) All Floors (Smartrise Hall Boa	
]	age (If discrete):			
	Not Required	- T	Lobby Panel	Not Required
	 Overload Lamp Anti-Nuisance 1:1 Roping 2:1 Roping Cross Head Sensors Rope Deflection Sensor 		 Door Open Lamp On Independent Svc. Lamp Out of Service Lamp Battery Lowering Lamp Emergency Power Lamp Other Requirements 	In Use Lamp In Service Lamp Normal Power Lamp At Recall Lamp
	19 Steel 0.90" 4 7 4 7 4 7 4 7 4 7 4 7 4 7 4 7 4 7 4 19 9 10 11 12 13 14 14 14 14 15 16 17 17 16 17 17 17 17 17 17 18 19 19 10 10 10 10 10 10 10 10 10	19 31 c Steel Steel St 0.90" 1,36" 1.5 4 4 4 7 14 2 4 Pair 6 Pair 11 No 1 1 1 UL Type ETT>NEC Compliant, CSA Type ETT, CSA FT1 St Be 24 VDC / 6 W St Be 24 VDC / 6 W Not Required (Discrete Signals (One line per floo Discrete Signals (Binary) MAD (CAN) MAD (CAN) MAD (CAN) Not Required (Discrete Signals Ib/Chime wattage (If discrete): Why constrained on the set of the set	19 31 69 Steel Steel Steel 0.90" 1.36" 1.570" 4 4 5 7 14 40 1 Pair 6 Pair 11 Pair No 1 2 UL Type ETT>NEC Compliant, CSA Type ETT, CSA FT1 2 St Be 24 VDC / 6 Watts I Not Required	Image: Street Signals Image: Size Size Size Size Size Size Size Size

Car Door

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Car 2

Powered Freight

Car 3

Use this door for all cars or specify which cars use it

Car 1

Field "EZ"

Linear Door Operator

24 VDC Interface Relays

Input Voltage: 230 VAC

Input Voltage: 230 VAC

Input Voltage: 230 VAC

Model #: 1.5

Input Voltage: 230 VAC

220 VAC (Discrete Only)

220 VAC (Discrete Only)

Input Voltage: 🗌 220 VAC

Input Voltage:

Input Voltage:

Motor Armature Voltage:

Motor Armature Voltage:

Motor Armature Voltage:

Requires UIT_I/O Card Input Voltage:

104 or 105D Interface Board

104 or 105D Interface Board

120 VDC (Discrete Only & Power Supply by Smartrise)

(L, G, or X) Motor Armature Voltage:

Manual

Manual

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Car 4

120 VAC

120 VAC

120 VAC

120 VAC

110 VAC

(Only M Models) (Type D/IVO)

120 VAC

AMPS:

(DC Motor)

2.0

	Front	Use this	door for all cars	or specify whi	ch cars use it			Deer	Use this do				
	Front Door Type		Car 1	Car 2	Car 3	Car 4		Rear Door Type	;	All			
L,	U Door Type							Hall Door Type					
Hall Door Type Hall Door Type Auto Passenger (Default) Manual													
Ca	ar Door Type							ar Door Type					
	Auto Passeng	, ,	Manual (See + below)	Poweree (See * bel	d Freight ow)			Auto Passen		ult)			
Se	lect Door Op	erator					Se	elect Door Op	erator				
	Abell	ATS 0090	Field "EZ		Abell	AT	S 0090						
	Fermator	VVVF5 Linear Door Operator							V	VVF5			
	GAL	MODCTL	24 VDC Interface Relays GAL							MODCTL			
	GAL	MOD	(L, G, or X) N	lotor Armature Voltage: GAL					N	NOD			
	GAL	MOVFR	Input Volta	age: 🗌 23	230 VAC 120 VAC GAL N					OVFR			
	GAL	MOVFEE	OVFEE Input Voltage: 230 VAC 120 VAC GAL					M	OVFEE				
	Kone	AMD	Input Volta Mode	• <u> </u>	0 VAC	120 VAC 2.0		MD					
	Kone	Mac	104 or 105	5D Interfac	ce Board			Kone	M	ac			
	Kone	PMSSC	•	age: 🗌 23 5D Interfac		120 VAC							
	Otis	AT400	120 VDC (Dis	crete Only & F	Power Supply I	oy Smartrise)		Otis	A	Г400			
	Otis	Glide A 220 VAC (Discrete Only) Otis						Glide A					
	Otis	Glide P	220 VAC	Discrete C	Dnly)			Otis	-	ide P			
	SEES	Smooth Operat	or Input Volta	age: 🗌 22	0 VAC	110 VAC		SEES	Smoot	th Operator			
	TKE	Dover HD-0	3 Input Volta	age:	(Only	M Models)		TKE	Dove	r HD-03			
	TKE	Dover HD-73	3 Motor Armat	ure Voltage:		(Type D/IVO)		TKE	Dove	r HD-73			
	TKE	Dover HD-9	1 Motor Armat	ure Voltage:		(DC Motor)		ТКЕ	Dove	r HD-91			
	TKE	HD-85	Motor Armati	ure Voltage:				TKE	Н	D-85			
	TKE	HDLM	Input Voltag	je: IT I/O Card	AMPS			ТКЕ	н	DLM			
	TKE	LD-16	Input Volta					ТКЕ		D-16			
	TKE	ECI	Input Volta					TKE	-	ECI			
	Wittur	Mini/Supra, SG	V Input Volta	age: 23		120 VAC		Wittur		upra. SGV			
	EMS		,	-ge:				EMS	IVIII II/O	upiu, 00 v			
	Courion			eight/Door	Informatio		Courion						
	Peelle		Bottom					Peelle	+				
_	Other		*Input Oth	er Door In	formation	at Bottom		Other					
			Input Out		Iomation			Other					
Door Protection Door Protection Photo Eye/Light Mechanical Safety Edge Door Hold Button										_ м			
	1		,							y			
	Mechanical						[_	Mechanical					
	DC	Vol	ts	A	mps		▎▐└	DC		Volts			
	AC (3-Phase) Vol	ts	A	mps			AC (3-Phase)	Volts			
	AC (Single P	hase) Vol	ts	A	mps			AC (Single P	hase)	Volts			
*Fr	reight/Other D	oor Operation	Information					otes and Spec	cial Inst	tructions:			
M	anufacturer												
	Model												
R٩	ference #'s												
110													

Job Prints from Door Manufacturer are Required

Input Voltage: ECI Mini/Supra, SGV Input Voltage: 🗌 230 VAC *Input Freight/Door Information at Bottom *Input Other Door Information at Bottom ction Mechanical Safety Edge Door Hold Button oor CAM Type/Information Volts Amps Volts Amps Volts ase) Amps al Instructions:

Landings and Openings

Check this box if more than 24 landings (continued on page 9 for landings 25-64) Hall Call Security Floor Information (1-24) Floor Openings Car Call Security Hosp **Destination Dispatch** Floor Floor Floor Car 2 Car 3 Car 2 Car 3 Car4 Car 2 Car 3 Car 4 Car 1 Car 4 Car 1 Car 1 Labe Index Height Overhead R F R F R F R F R F R F R F R F R F R F R F R F R FR Default 13ft Kiosks QTY Kiosks QTY 24 23 22 21 \square 20 19 18 \Box \Box 17 \Box \Box 16 15 14 13 \Box \Box 12 11 וחו 10 \square 9 8 7 6 \square 5 4 3 2 1 Pit-> Default Pilabel: Pit Pit Pit Pit Pit □ All cars same as Car 1 All cars same as Car 1 All cars same as Car 1 Note: Maximum of eight kiosks Main Fire/Lobby Floor All walk-through All walk-through All walk-through per floor Alt Fire Floor All front ☐ All front All front Number of floors Number of floors Number of floors We will default to the lobby landing If mixed F/R, select boxes above and the landing above for main Include Hall Network CAT5 package and alternate fire □ 50 ft □ 100 ft floor respectively Controller (MR) to Hall Network (Hoistway) CAT5 Cable Length 25 ft (Default) Not Required Smart Dispatching Total Hoistway Height (ft) Lobby Boost (Lobby Only) Walkthrough Only: Top Car 1 F R Location of Hoistway Up/Dn Switch Car # s Car 2 **Destination Dispatch** Not Required Car 3 Walkthrough Only: Bottom F R Location of Hoistway Up/Dn Switch Car # s Full (All Floors) Car 4 All cars same as Car 1 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 11

Landings and Openings (25-64)

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Continued	from	page	8
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Check this box if more than 64 landings (continued on page 10 for landings 65-96)

Floor	r Informati	on (25-64)		F l oor C	pening	6	0	Car Call Security Hall Call Security		ty	Hosp	Destina	tion Dispatch				
Floor Index	Floor Label	Floor Height	Car 1	Car 2	Car 3	Car 4	Car 1	Car 2	Car 3	Car 4	Car 1	Car 2	Car 3	Car 4			
Ov	erhead ault 13ft		FR	FR	FR	FR	FR	FR	FR	FR	FR	FR	FR	FR	FR	F Kiosks Q	R TY Kiosks QTY
64																	
63																	
62		-															
61																	
60																	
59																	
58																	
57																	
56																	
55																	
54																	
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30																	
29																	
28																	
27																	
26																	
25																	
	phtbetween 24 and 25 ⇒																

Additional Landings and Openings (65-96)

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Floor Information (65-96)		Floor Openings			Car Call Security				Hall Call Security			Hosp	Destin	Destination Dispatch		
Floor Floor Index Label	Floor Height	Car 1	Car 2	Car 3	Car 4	Car 1	Car 2	Car 3	Car 4	Car 1	Car 2	Car 3	Car 4			
Overhead Default 13ft		FR	FR	FR	FR	FR	FR	FR	FR	FR	FR	FR	FR	FR	F	R QTY Kiosks QTY
96																
95																
94																
93																
92																
91 -																
90																
89																
88 -																
87																
86																
85																
84 -		┨┝╧╵														
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69																
68		- 🗆 🗆														
67																
66 -																
65																

Elevator(s) Physical Layout

G

Door Opening

(ForR)

Car 2

(F)

Car Label

No Opening

G

Car 3

(F)

Wall/Barrier

Group Hall Riser

Example

(R)

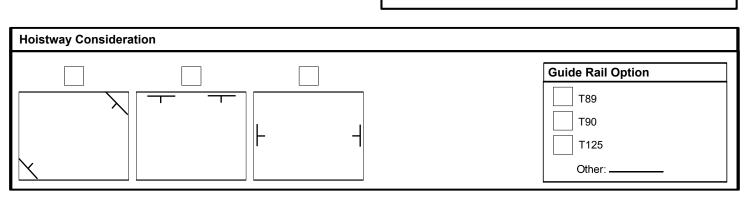
Car 1

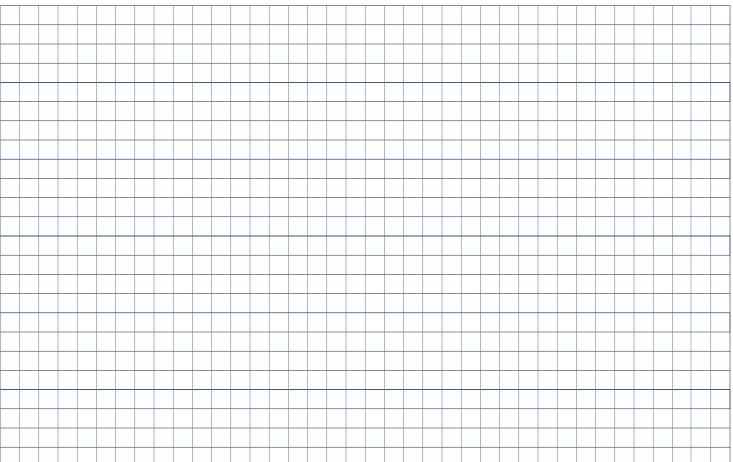
(F)

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





Traction Motor Purchase from Smartrise

- * Complete only if purchasing a motor from Smartrise
 * All other motor data must have been provided on page 4

Existing Machine Information	Exiting Motor Information
Machine Brand Model Style	Manufacturer: Frame Size/Style: Foot Mount Flange Mount
Counter Weight Percentage:	HP Volts RPM
New Motor Information Volts Encoder Cable Length	Car Speed Car Capacity
RPM 30 Ft. 40 Ft. 50 Ft. Straight Shaft	Machine Location Overhead
Coupling Survey (Only If Provided by Smartrise)	
(CF) Coupling Flange Diameter Number of Mounting Bolts Bolt Size (BH) Bolt Hole Diameter (BTB) Center Bolt to Center Bolt (BC) Bolt Circle	BTB CF
Notes and Special Instructions	O O BTB CF