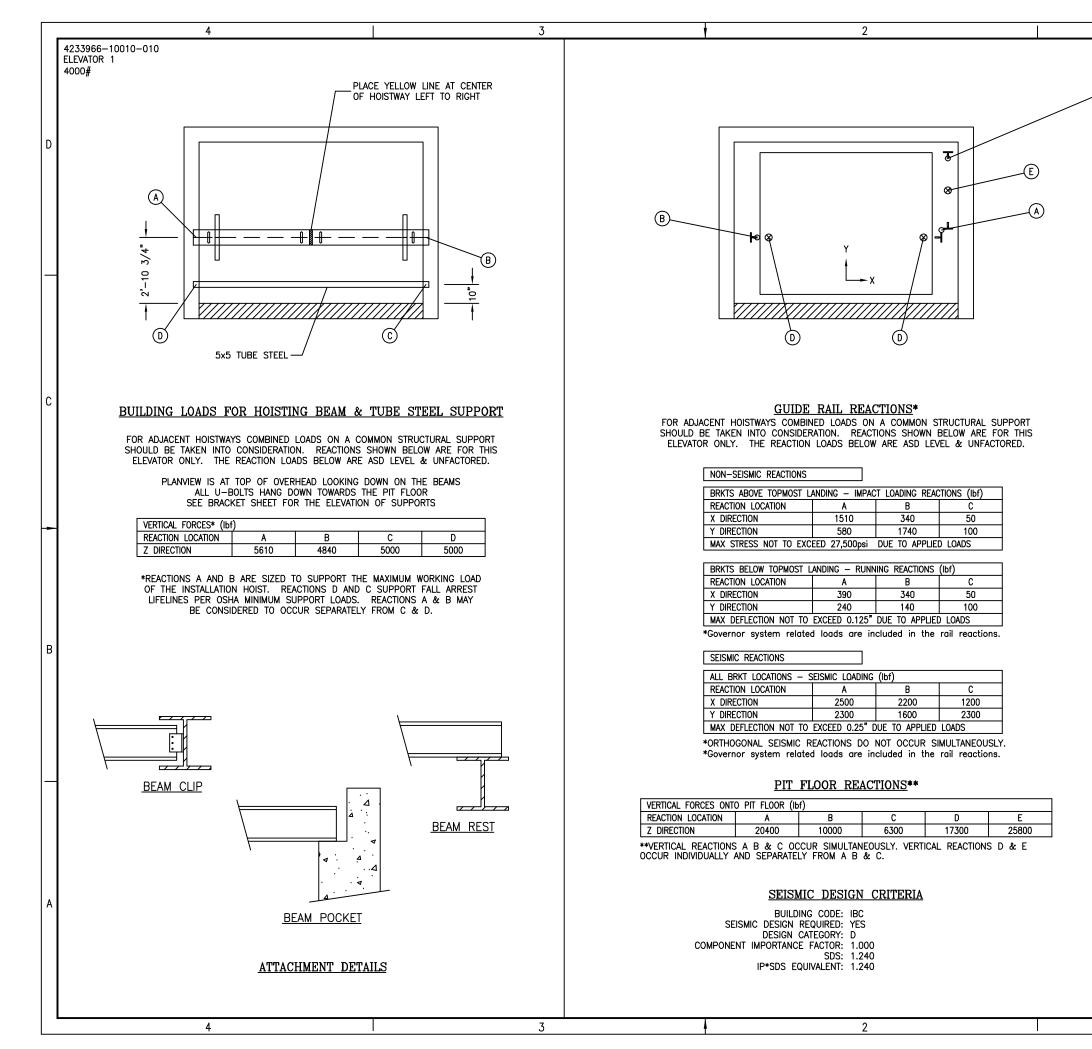
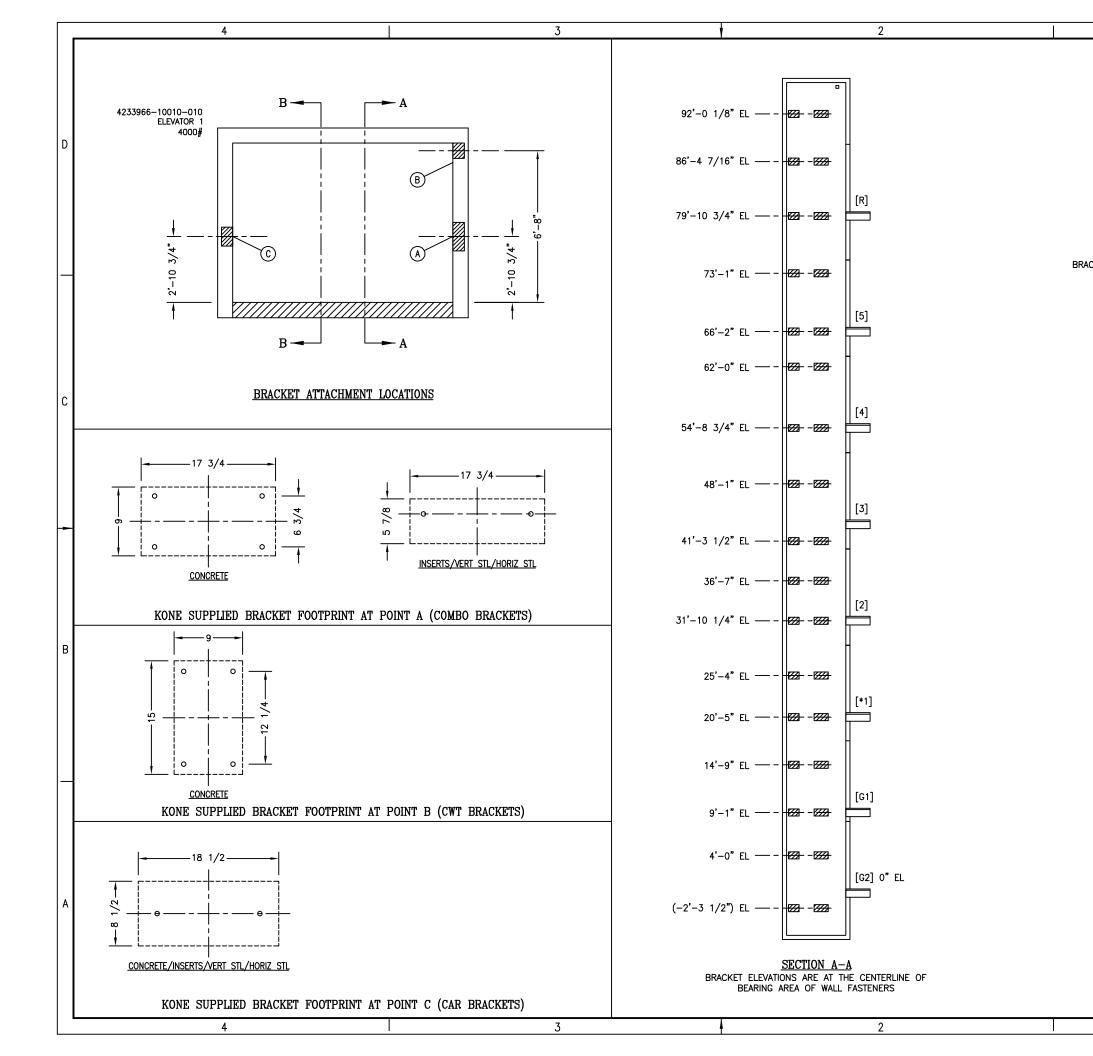
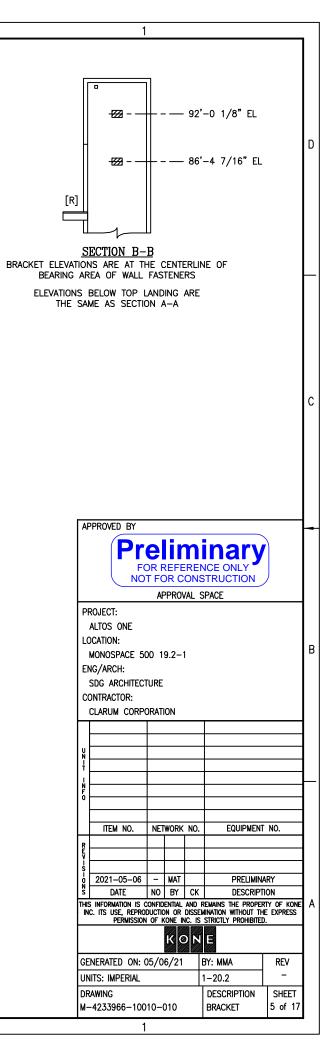


	1						
NOT	ES:						
A. ⁻	THE TEMPERATI	URE I 41	IN TI	HE C	ONTROL SPACE and 104 [.] F [MUST 40' C].	D
AF	PROVED BY						C
	Pr	e	lir	n	inary		
		T FC	OR C	ONS	NCE ONLY		
	ROJECT: ALTOS ONE DCATION: MONOSPACE 50 IG/ARCH: SDG ARCHITECT ONTRACTOR: CLARUM CORPO)0 1 Ture	9.2- ⁻				В
I NFO							
	ITEM NO.	NET	WORK	NO.	EQUIPMENT	· NO.	
REV							
REV-S-OZS	2021-05-06	_	MAT		PRELIMIN	ARY	
	DATE	NO	BY	СК	DESCRIPT	10N	
IN	C. ITS USE, REPROL	DUCTIC	ON OR	DISSE	Remains the proper Mination without th Strictly prohibited	e express	A
			К) N			
	NERATED ON: C)5/0	6/21		BY: MMA	REV	
	IITS: IMPERIAL				1-20.2 DESCRIPTION	SHEET	
	-4233966-100	10			CONTROLLER	3 of 17	
							-

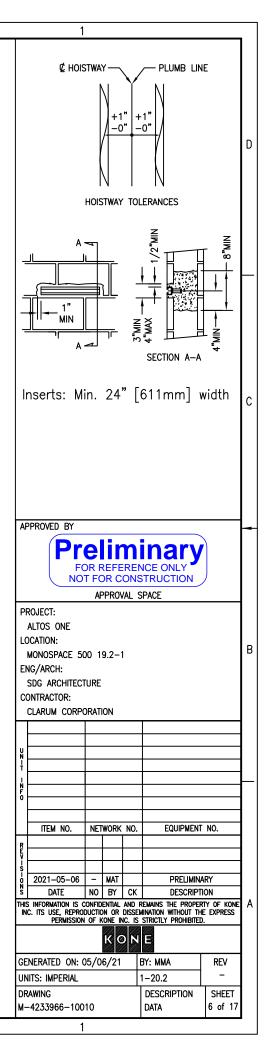


	1					
©						D
						С
Pi L(Ei V	FC	DR RE TFOR APPE	CONS ROVAL S 2-1	Inary NCE ONLY STRUCTION SPACE		В
GE	ic. Its use, reproe	- M. NO E ONFIDENT OUCTION OF KON	OR DISSE E INC. IS 21	PRELIMIN DESCRIPT REMAINS THE PROPER MINATION WITHOUT TH STRICTLY PROHIBITED	ARY 10N RTY OF KONE E EXPRESS	A





	4		3		2	
		I	<u> </u>	I	۷۲	
RATED S ELEVATOR RANGE OF CLASS OF LO/	ACITY: 4000LB(1814KG) PEED: 350FPM(1.75MPS) USE: PASSENGER DING: CLASS A CODE: A17.1 2004 DINGS: 8					
OPER MECH. POWER REQ CONTROLLER/DRIVE MACHINE/MOTOR EST WT MACHINE W/M RATED MOTOR OI RATED CONTROLLER OI	ATION: SIMPLEX JIRED: 18.1KW(24.2HP) TYPE: KCM831 W/KDM-40A TYPE: MX20/G07:V005-8 W/FAN					
CAR GUIDE CAR S CWT GOVERNOR CAR GOVERNOR EST WT INCL. 50% O' CWT S CWT FRAME MIDDLE WEIGHT	TYPE: OL35 YBAL: 5913 AFETY: NONE TYPE: FCWT04 WIDTH: 11"					
REAR D INTER HOIST F ROPING CAR GOVERNOR COMPENS CWT GOVERNOR	ATION: NONE ROPE: NONE					
CAR BUFFEI CAR BUFFER S CWT BUFFER ST CWT BUFFEI CWT BUFFEI	TROKE 6.81 TYPE: OIL (RED. STRK. BUFFER) ROKE: 6.81 ROTY: 1					
ELECTRICAL MAXIMUM ALLOWABLE N KONE CALC THE FOLLO NAMEPLATE MAX ACCEL						
MAX MOTOR BRANCH S UL CLASS RK1 FUSE (QUIRED PRIOR TO INSTALLATION HORT-CIRCUIT PROTECTION IS AMP): 90 TAGE: 208, 3 PH, 60 HZ					
MACHINE/M	TAGE: 208 RANS: 3.4KBTU/HR(1.0KW) DTOR: 3.5KBTU/HR(1.02KW) THE CONTROL SPACE MUST					
MAINTAIN BETWEEN 41 <u>FLOOR, CAB & D(</u> IF THE ACTUAL CAB & DEVIATES, THE EQUIPM	F [5' C] and 104' F [40' C]. <u>DOR WEIGHTS</u>					
EST CAB W EST FINISH FLOOR W EST FLOOR TOTAL W CAB & FLOOR W MOVING MASS OF D	EIGHT: 5.0 LBS/FT^2 EIGHT: 210.0 LBS EIGHT: 3913 LBS					



	4 3	2
	<u>Site Safety Requiremen</u>	<u>nts / Work by Others</u>
	KONE EcoSpace / KONE MonoS	<u>Space 500 Bid Attachment "B"</u>
D	Purchaser to provide the following in accordance with cod to be in place prior to KONE's start must be ready two (
C	 to be in place prior to KONE's start must be ready two in Ceneral Provide sufficient on-site refuse containers for the disposal of the elevator packing material. Should sufficient containers not be provided, the removal of the elevator packing material shall become the responsibility of others. Provide out outputs to accommodate the elevator apaking material shall become the responsibility of others. Provide and install inside elevator can bioraing of the elevator at time of elivery. Provide and install inside elevator can bioraing parts (coordinate with KONE). Cab tooring/weight allowance shall be in accordance with KONE's approval layouts. Owner must provide catification (to the elevator inspection) that owner-supplied elevator interior finishes meet flame special and the elevator inspection of the dispection (b) that owner-supplied elevator interior finishes meet flame special and smale density requirements (SME 471/1/CSA 44 sec. 214.21.). In the other of the provide catification (to the elevator inspection required to install hall push buttons; signal futures, wring duct and piping, and elevator service (SME 471/1/CSA 44 sec. 214.21.). Provide cuting/ coring of all appenings and paretrations required to install hall push buttons; signal futures, wring duct and piping, and elevator components are weatherproof and that the elevator. Provide autification of the elevator components are weatherproof and that the elevator. Provide deguate, roll-able access (clear path without obstructions, walls, etc.) into the building for delivery of the elevator material. Clean, sofe, secure and dry storage is required adjacent to the holistary at grade level with minimum space of 20° x 20° (for x 50° (Fin X	 Weeks prior to the start of installation. Provide adequote support for quide rail brackets from pit floor to the top of the hoistwoy. Locate rail backing p find approved loyout drawings. When maximum bracket spon is exceeded, additional support shall be provided at purchaser's expense. Any bracket mounting surface that is not in line with the clear hoistwoy dimension detailed approved KONE find loyout drawings may need to be corrected to meet the proper dimension at purchaser's expense. H guide rail brackets are to attach to steel, ensure all brackets are installed prior to applying fireproling to the steel. (Norwas, Proceeds and Steel and
_	 Provide any partitions between common hoistways if applicable. Provide for installation of hoisting I-beam in the elevator hoistway overhead per the KONE final layout drawings. Beam supplied by KONE unless otherwise noted on the layout drawings. Engineering details, attachment details and/or modifications, or any beam(s) alterations in the field for installation is by others. In cases where multiple elevators are in a common hoistway, and the counterweights are located between elevators, the entire length of counterweight runway must be guarded. The guard shall extend at least 6 inches (150mm) horizontally beyond each counterweight rail. The guard shall be made from wire-mesh material equal to or stronger than .048-inch diameter wire with openings not exceeding 1/2 inch (13 mm), securely fastened to keep the guard taut and plumb. (A17.1 - 2019 / B44 - 19 : General Requirements.) On applications where working platforms are required, working platforms provided shall comply with the requirements of the current ASME A17.1 / CSA-B44 code edition in effect at the time of installation and /or any applicable 	 electrical contact with minimum UL/CSA NEMA A300 rating suitable for use in a 3 amp 230VAC circuit. Consult KONE representative if there are any questions concerning the code requirements. 36. In jurisdictions enforcing the NBCC and in jurisdictions enforcing NFPA 72, the means for testing and maintenanc of fire alarm initiating devices without having to enter the hoistway shall be permitted. When this means is provided it must comply with A17.1-2019/B44-19 requirement 2.8.2.4 and the location of equipment inside the elevator hoistway must be coordinated with KONE sales and/or operations representative.
A	A local code. Site Safety Requirements / Work by Others (Bid Attachment "B") CONSTR-007-0664 (2020-02-04) KONE EcoSpace / KONE MonoSpace 500	
	4 3	2

		1							
er KONE on the ense.									D
ion ed n to r es, uting cation									с
ent ing and of E per etween rs in ith an	Pf LC Ef	FC	OR F T FC AF	9.2-	AL S	ina NCE ON STRUCT	LY 🧖		В
e	GE UN DR	ITEM NO. 2021-05-06 DATE 3 INFORMATION IS C C. ITS USE, REPROI PERMISSION INERATED ON: C INTS: IMPERIAL IAWING -4233966-100	- NO ONFID OUCTIC OF k	ON OR	CK AND DISSE VC. IS	PI DI REMAINS THE MINATION WI STRICTLY PI	PTION	ARY 10N RTY OF KONE E EXPRESS	A

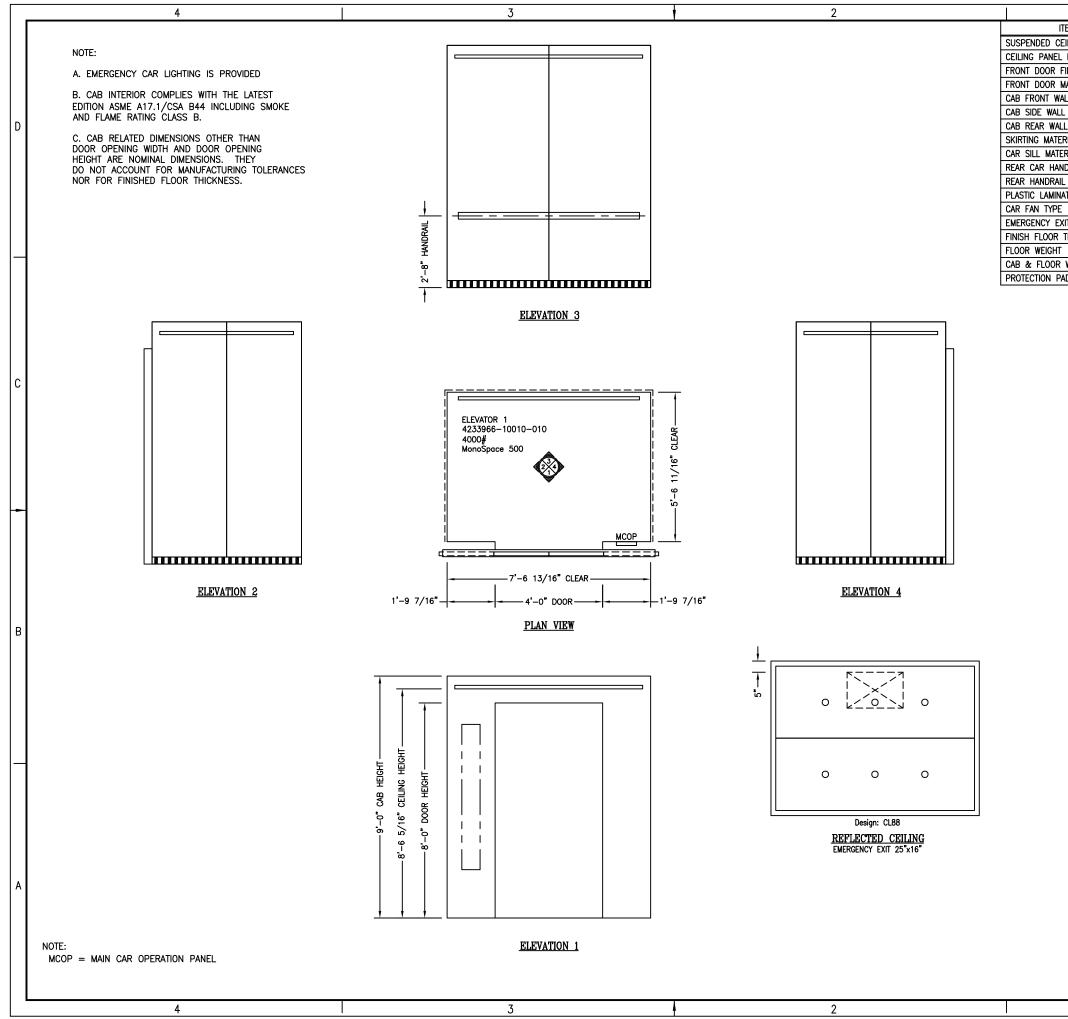
	4 3	2	1	
				1
D	 Pit 37.Provide a legal, dry and clean pit with level pit floor, built per KONE final layout drawings. Pit shall be reinforced to sustain vertical forces detailed on KONE final layout drawings (vertical forces detailed are two times the static loads.) 38. Sumps and/or sump pumps (where permitted) located within the pit may not interfere with the elevator equipment. Sumps to be covered with flush mounted, non-combustible cover capable of withstanding 150 lbs. per square foot (7 kPa). The sump pump/drain must, at minimum, remove 3,000 gal/h (11.4 m3/h): a. A17.1-2019/B44-16 and earlier, per elevator. b. A17.1-2019/B44-19 and later, per single hoistway or multiple car hoistway. 39. Provide a pit light fixture with switch and guards with an illumination level equal to or greater than that required by ASME A17.1/CSA B44 2000, or applicable version. Recommended to provide minimum 4-foot double tube fluorescent fixture, 	 59. Provide a Direct-in-dial (DID) analog phone line, activated at least one week prior to inspection, terminated at the appropriate phone jacks in the elevator control room. GC/ Owner may elect to have a separate analog line installed (one per elevator), or GC/ Owner may elect to provide DID lines from an Analog Station Card in the building's PBX system. If GC/Owner provides a Direct-in-Dial analog phone line or lines off an existing PBX phone system, a backup power source must also be provided. All phone and associated equipment provided by GC/ Owner shall be in compliance with the requirements of ASME A17.1/ CSA B44, local codes and applicable law, as amended. 60. Provide all fire alarm initiating signals as required by all national, state and local codes for termination at the primary elevator signal control cabinet in each group. 61. With emergency power service provide emergency power transfer switch and power change pending signals as required; 2 normally open dry contacts from transfer switch to controller (2 pairs plus ground wire). One contact 		D
	 with suitable guard and mounted to rear wall of pit per KONE installation representative's direction. 40. Provide a dedicated pit circuit with GFCI-protected 15 or 20 amp 120VAC duplex outlet. Location to be coordinated with the KONE project team using the KONE final approve layout drawings (NFPA 70 article 620.85; CEC article 38.85 whichever is applicable). 41. Provide non-GFCI-protected single receptacle for sump pumps (NFPA 70 article 620.85, NFPA 70 article 620.85 or CEC article 38.85 whichever is applicable). 42. Pit ladder to be constructed of non-combustible material extending from pit floor to 48" [1200 mm] above the sill of the access landing. Pit ladder is supplied by KONE; provided by purchaser on other KONE products unless otherwise noted on the layout drawing. Locate per KONE final layout drawings. Coordinate ladder sizing and location with KONE representative to assure proper fit in hoistway. 	 closes to signal emergency power is present, the other contact closes to give 30 second pre-signal prior to transfer switch change. Termination of these wires is at the primary elevator signal control cabinet in each group (2 pairs plus ground wire). 62. Furnish and install smoke detectors and fire operation per ASME A17.1/CSA B44 sec 2.27.3.2, NFPA 72; one for lobby detector, machine room detector, hoistway detector (hoistway detector requirement determined by local code), and one for all grouped non-lobby detectors are required. Provide normally-closed dry contacts, with wiring, to controller for each group listed above. 63. Provide and install smoke detector in hoistway as required per local codes, and in all elevator lobbies, machine room and controller space. 64. Provide heat detectors and "shunt-trip operation" when sprinklers are required in machine room or hoistway, 		
С	 Electrical 43. US Applications - Purchaser provides in accordance with National Electrical Code, NFPA 70 (NEC) Article 620 or any applicable local code. 44. Canadian Applications - Purchaser provides in accordance with Canadian Electrical Code, C22.1 Section 38 or any applicable local code. 45. Provide dedicated GFCI-protected 20 amp 120VAC duplex (15 amp in Canada) outlet next to each ICS panel control cabinet located as shown on layouts 46. Provide for all electrical branch circuits/disconnects to be labeled (NFPA 70 article 620.54 / 620.53 / 620.51d, CEC articles 38.54/ 38.53/ 36.51d). 47. Provide 480/208VAC (USA) or 575/208VAC (Canada) three-phase permanent power, including piping, wiring and fused disconnect, to controller location to facilitate elevator installation prior to start of project. 48. Provide 220VAC single-phase temp. power and 115VAC single-phase temp. power, of permanent characteristics at each elevator londing for lighting and installation method tools. Locate connection points at elevator hoistway. Consult your KONE representative for confirmation of location and type of temporary power. 49. When generator is used to provide 3-phase 480/208VAC (USA) or 575/208VAC (Canada) power for installation, purchaser to accept change notice for additional costs, estimated locally by installing office, to cover inefficiencies 	 (ASME A17.1 sec 2.8.2.1.2, NFPA 13 sec 4-13.5, ASME A17.1 sec 2.8.2.3.1, ASME A17.1 sec 2.8.2.3.2, NFPA 72). (65. If Fire Status Panel or Security panels are required, all remote conduit runs from elevator equipment room/machine space to these panels shall be by others. (66. Non-elevator related piping and equipment is prohibited in machine room or hoistway (ASME A17.1/CSA B44 sec 2.8.1, ASME A17.1/CSA B44 sec 2.8.2). (7. Provide and mount at minimum a 10-pound, ABC-type fire extinguisher in control space (ASME A17.1 sec 8.6.1.6.5). (Not required in Canada). Applicable for Integrated Control Solution (ICS) (8. Provide a completely open front wall at top landing with access as indicated on the KONE Final Approved Layout Drawings. Must have adequate temporary or permanent lighting for installation purposes. NOTE: The lobby side of the ICS control cabinet must be faced with 2 layers of dry wall to comply with UL certification, regardless of front type. See KONE Final Approved Layout Drawings for details and wall type and minimum dimensions. (9. Provide environment for proper equipment operation during installation and after acceptance, the temperature at the top floor elevator lobby must maintain between 41' F [5' C] and 104' F [40' C]. Maximum allowed humidity is 95% non-condensing. 		с
	and any damages resulting from installing without permanent power present. NOTE: Our elevator controllers require Wye configuration transformers. It is also the responsibility of the purchaser	70. Provide safe and convenient roll—able access to top floor elevator lobby area. (ASME A17.1/CSA B44 sec 2.8.1, ASME A17.1/CSA B44 sec 2.7.3).	APPROVED BY	
	to provide consistent three-phase voltages balanced within +/- 10% when measured phase-to-phase and +/-10% when measured phase-to-ground. 50. Provide a dedicated 20 amp 115VAC circuit in the fire command room piped and wired to the lobby panel where applicable.	 Provide 480/208VAC (USA) or 575/208VAC (Canada), three-phase permanent power, including piping, and wiring from fused disconnect, to junction box located in hoistway at top landing to facilitate elevator installation. FIRE ALARM INITIATING DEVICE (FAID). FAID is a requirement of A17.1/B44, rules 2.27.3.2.1 (b) and 2.27.3.2.2 (b). 	Preliminary	ſ
В	 Provide a dedicated 15-amp,115VAC fused service with ground (supplied through automatic emergency lighting supply if available in building) connected to each elevator signal control cabinet for car lighting. Must include the means to disconnect this service and lock-off in the "open" position (NFPA 70 article 620.22 and 620.53 or CEC article 38.22 and 38.53). Provide a separate15-amp, 115 VAC fused service with ground (powered by building emergency power system, when available) for KONE 24/7 Emergency Communications, when specified. Must include the means to disconnect each service and lock-off in the "open" position (NFPA 70 article 620.23 or CEC article 38.22 and 38.53). 		PROJECT: ALTOS ONE LOCATION: MONOSPACE 500 19.2-1	В
	 Control Space/ Integrated Controls Solution (ICS) 53. Provide a legal control space/ machine room with access as indicated on the KONE final layout drawings. To include a temporary or permanent door that can be locked from outside. Permanent door must be self-closing, self-locking, and require a key to open from outside. Must have adequate temporary or permanent lighting for installation purposes. For proper equipment operation, the temperature in the control space must maintain between 41' F [5' C] and 104' F [40' C]. Maximum allowed humidity is 95% non-condensing. 54. Provide safe and convenient access to control space/machine room including provisions for necessary lighting for access path (ASME A17.1/CSA B44 sec 2.8.1, ASME A17.1 / CSA B44 sec 2.7.3). 55. Provide a clean and dry elevator control room. 		ENG/ARCH: SDG ARCHITECTURE CONTRACTOR: CLARUM CORPORATION	•
	 56. Provide suitable lighting for control space with light switch located within 18" [457 mm] of strike jamb side of control space door where practical. When permitted by state and local code the light switch should also control the machine space lighting if control space is adjacent to the hoistway at the top landing. 57. Provide dedicated GFCI-protected 120VAC 20-amp duplex (15 amp in Canada) outlet next to each signal control cabinet. 		ITEM NO. NETWORK NO. EQUIPMENT NO.	
A	 58. Provide a single means of disconnecting all ungrounded main power conductors for each elevator by an enclosed, externally operable, fused motor circuit switch with UL/CSA Class RK1 fuses. Must be lockable in the open position. This disconnecting means shall disconnect the normal power service as well as emergency power service, when provided. Note 1: If a battery-powered rescue device is required, the above-mentioned disconnect must have an auxiliary contact monitored by elevator controller that is positively opened mechanically and is normally closed (NC) when the main power is in the ON position, and is normally open (NO) when power is in the OFF position. Note 2: If a battery-powered rescue device is required and a separate shunt trip breaker which is subject to either the hoistway or control space sprinkler system is provided, the shunt trip breaker must have an auxiliary contact that is positively opened mechanically and is NC when the main power is in the ON position. Note 3: Shunt trip not allowed for Fire Service Access / Occupation Evacuation elevators or in Canada and some US jurisdictions. 	2 USA CANADA COMMENT W 30" 1m NEC2014. CE2015 D 36" 1m NEC2014. CE2015 D 36" 1m Neccontrol econsult ADA requirements for exact building clearance. 1) Since ICS control enclosure is vented into the hoistway, a fire alarm initiating device (FAID) is required in this portion of the control space. 2 2) A fire alarm initiation device (FAID) is required in the lobby area to protect the control space when ICS is open.	R Image: Constraint of the second s	
	CONSTR-007-0664 (2020-02-04) KONE EcoSpace / KONE MonoSpace 500		DRAWING DESCRIPTION SHEET M-4233966-10010 CONTRACT 8 of 17	
1			· · · · · ·	-

	4	3	2	
D	provide normal or standby power, car lighting power, car ventilation po power, control signals, communication with the car and fire/heat-dete Access Elevators, shall be protected by construction having a fire-resis (applicable only in jurisdictions enforcing the IBC, International Building 75. Fire Service Access elevators shall be provided with hoistway lighting. 76. Prevent water from the operation of an automatic sprinkler system ou the hoistway enclosure in accordance with an approved method per ru 77. Means for elevator shutdown in accordance with Section 3005 shall no Fire Service Access and/or Occupant Evacuation Elevators per rule 300 78. Occupant Evacuation elevators shall be continuously monitored at the	e the entire height of the hoistway and the elevator or reduce any clearances below the IBC, International Building Code). d. ine space and control space, that ower, car heating power, car air conditioning cting systems control signals to Fire Service stance rating of not less than 2 hours Code, or any applicable local codes). utside the enclosed lobby from infiltrating le 3008. ot be installed on elevator systems used for D8. fire command center or a central control		
	point approved by the fire department and arranged to display all of	the following information per rule 3008.		
c	 b. Ventilation and cooling equipment for elevator machine rooms, control. b. Ventilation and cooling equipment for elevator machine rooms, control. c. Elevator car lighting. 80. Standby power loads shall be based on the determination of the numl Sections 3008.1.1 and 3008.8.1. 81. Wires or cables that are located outside of the elevator hoistway, mac space and that provide normal or standby power, control signals, com air conditioning, ventilation and fire-detecting systems to occupant evolone of the following methods 3008. 	ery and electrical apparatus cooling control space ventilation and cooling equipment. to power to the elevator equipment, elevator achine room, control room and control space elevator machine room, machine space e, control room or elevator hoistway. Julied by both normal power and rol rooms, machinery spaces and control spaces. ber of occupant evacuation elevators in chine room, control room and control munication with the car, lighting, heating, acuation elevators shall be protected using		
	a. Cables used for survivability of required critical circuits shall be list and shall have a fire-resistance rating of not less than 2 hours. b. Two electrical circuit protective systems shall have a fire-resistance Electrical circuit protective systems shall be installed in accordance wit c. Construction having a fire-resistance rating of not less than 2 hou Exception: Wiring and cables to control signals are not required to be and cables do not serve Phase II emergency in-car operation.	e rating of not less than 2 hours. th their listing requirements. ırs.		
В				
A				
	Site Safety Requirements / Work by Others (Bid Attachment "B")			
	CONSTR-007-0664 (2020-02-04) KONE EcoSpace / KONE MonoSpace 50	00		
	· · · · · · · · · · · · · · · · · · ·		1	
	4	7	2	1

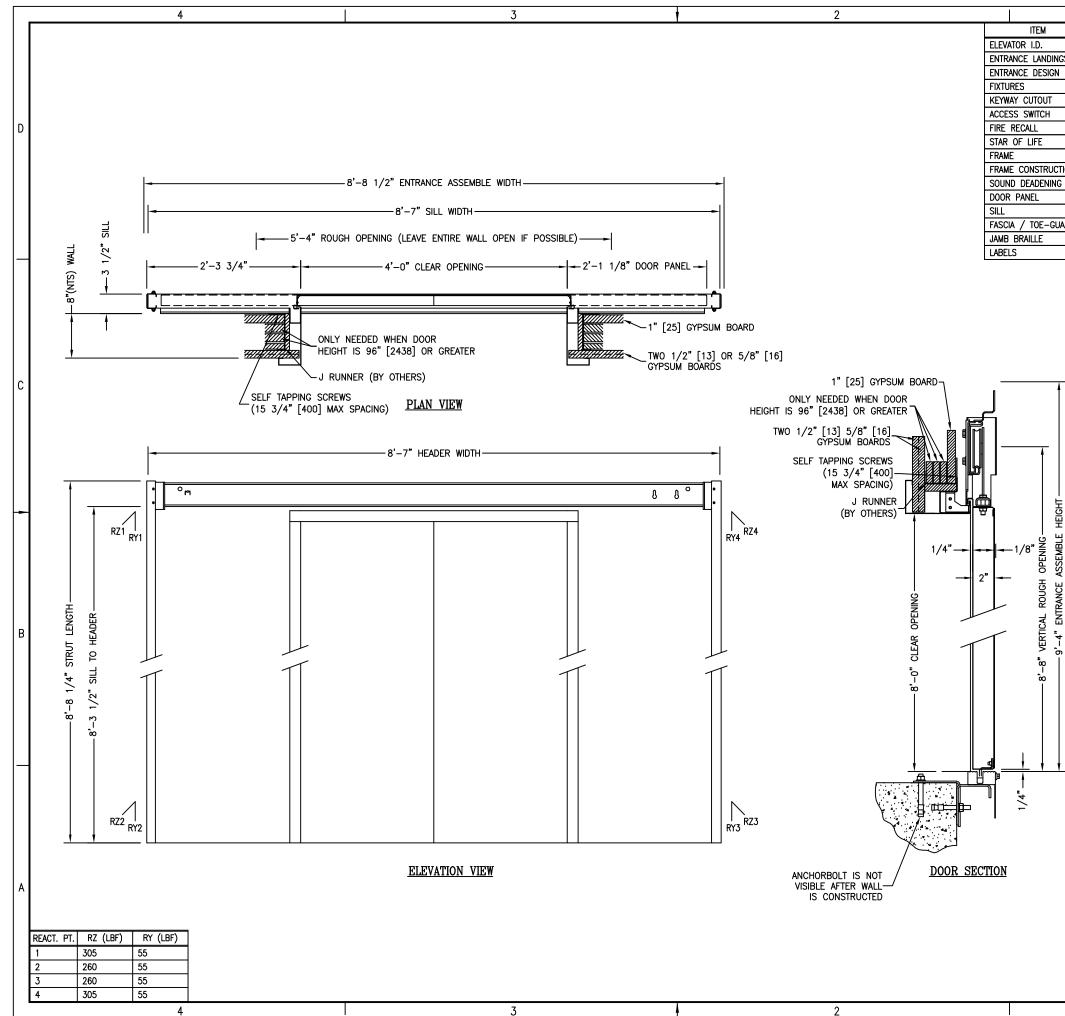
	1						
							D
							с
Pf LC Ef	F	OR F T FC AF 00 1 TURE	9.2-	RE ON	INCE ONLY STRUCTION SPACE		E
-NFO REV-S-ONS	ПЕМ NO. 2021-05-06 DATE 5 INFORMATION IS 1 INFORMATION IS 6 FEPER	- NO CONFID	WORK MAT BY ENTIAL SN OR	CK	PRELIMI	VARY TION TRTY OF KONE HE EXPRESS	_
	PERMISSION		к		BY: MMA	REV	

Г	4 3	2	1
	Bid Attachment "B" People Flow Intelligence		
	(PFI) Work by Others		
D	Purchaser to provide the following in accordance with code requirements.		
	NOTE: All Work by Others is requited to be completed two (2) weeks prior to the st	art of PFI installation	
_	 KONE Access Control (if provided) Provide two (2) dedicated 15 amp 120VAC fused service with ground in the control space connected to designated ACS cabinet(s) per the ACS wiring diagrams. Must include the means to disconnect this service and lock-off in the "open" position (NFPA 70 article 620.22 and 620.530r CEC article 38.22 and 38.53). If Mobile Device feature is provided, the customer provides the site-specific configuration cards and two valid mobile credentials for testing to KONE during installation. Provide IP addresses per KONE LAN schedule. IP addresses are required, but not limited to, KONE Group controllers (KGC), KONE Interface Controllers (KIC), LAN Destination Operating Panels (DOP), LAN Destination Guidance 	ach of the following application(s): Security Integ ring System, Multi—Media Equipment, and Card Re ed via the Internet. es are required, but not limited to, KONE Group	rated
С	 Displays (DGD) and LAN InfoScreen. Turnstile Integration for KONE Destination (If provided) 4. Provide one (1) dedicated GFCI protected 120VAC 20-amp (15 am in Canada) duplex outlet for PeopleFlow Servers per the wiring diagrams. 5. KONE recommends a minimum 100 Mbit/s Ethernet for each of the following application(s): Security Integrated Touchscreen/Keypad Destination Operating Panels, Monitoring System, Multi-Media Equipment, and Card Readers. 6. Provide IP addresses per KONE LAN schedule. IP addresses are required, but not limited to, KONE Group controllers (KGC), KONE Interface Controllers (KIC), LAN Destination Operating Panels (DOP), LAN Destination Guidance Displays (DGD) and LAN InfoScreen. 7. Provide and install the required number and size conduit runs from elevator hoistways to turnstile banks. See turnstile integration specifications for site specific requirements. 	etwork with internet access. In the machine room InfoScreen Server Box. to the next elevator machine room/control space Connection Boxes from two elevator machine roo th ground PE per machine room/control space p oment and converters will be located in a building	n/control that has orms/ control piped and g IT room
-	 3rd Party Access Integration/Security (If provided) 8. Our proposal includes KONE logic and provisions for the specified Touchscreen(s), Keypad Destination Operating Panel(s), Monitoring System(s) and Multi-Media Equipment. 9. Card Readers and/or any additional required hardware & software for proper functionality of access control/security system(s) shall be furnished and installed by others. 10. A designated 115V 15A circuit is required at each of the remote monitoring stations. 11. Any required interface software to ensure proper communication between KONE control system(s) and building system(s) shall be the responsibility of others. 	ntrol space that has the last Group Connection B	
В	 12. KONE recommends a minimum 100 Mbit/s Ethernet foreach of the following application(s): Security Integrated Touchscreen/Keypad Destination Operating Panels, Monitoring System, Multi-Media Equipment, and Card Readers. KONE Destination Dispatching (If provided) 13. When KONE Destination (Destination Dispatch) is used, provide one (1) dedicated 15 amp 120V AC fused service with ground (supplied through automatic emergency lighting supply if available in building) connected to each elevator signal control cabinet for shaft power. Must include the means to disconnect this service and lock-off in the "open" position (NFPA 70 article 620.22 and 620.53 or CEC article 38.22 and 38.53). 14. When KONE Destination Dispatch) is used, provide 2 (two) separate 115 VAC 15 amp branch circuit for KGCs (KONE Group Controls), one for each KGC, powered by building emergency power system, when applicable. 		PROJECT: ALTOS ONE LOCATION: MONOSPACE 500 19.2-1 ENG/ARCH: SDG ARCHITECTURE
	 E-Link (If provided) 16. A designated 115V 15A circuit is required at each of the remote monitoring stations. 17. KONE recommends a minimum 100 Mbit/s Ethernet for each of the following application(s): Security Integrated Touchscreen/Keypad Destination Operating Panels, Monitoring System, Multi-Media Equipment, and Card Readers. 18. Provide IP addresses per KONE LAN schedule. IP addresses are required, but not limited to, KONE Group Controllers (KGC), KONE Interface Controllers (KIC), LAN Destination Operating Panels (DOP), LAN Destination Guidance Displays (DGD) and LAN InfoScreen. 19. BACnet Additional requirements (if provided) 		CONTRACTOR: CLARUM CORPORATION
A	a. All E-Link features required b. Provide BACnet Device IDs for Devices c. Provide BACnet Revision Level requested for the site (PR-18 supported or not)		N ITEM NO. NETWORK NO. ITEM NO. NETWORK NO. V ITEM NO. N DATE NO. THS INFORMATION IS CONFIDENTIAL AND RE NC. TS USE, REPRODUCTION OR DISSEMI NC. TS USE, REPRODUCTION OF KONE INC. IS S PERMISSION OF KONE INC. IS S
	Constr-07-0666 (2018-10-16) People Flow Intelligence (PFI)		GENERATED ON: 05/06/21 B' UNITS: IMPERIAL 1 DRAWING I M-4233966-10010 0

4 3	2	1
<u>Bid Attachment "B"</u>	<u>People Flow Intelligence</u>	
<u>(PFI) Wor</u>	<u>k by Others</u>	
Purchaser to provide the following in accordance with a	code requirements	
NOTE: All Work by Others is requited to be completed	•	D
 KONE Access Control (if provides) Provide two (2) delicated 15 orn p120WC fused service with ground in the control space connected to designated ACS colority (i) port the X302 provide, j) are table X302 provide, j) are table to the specific control x38-22 and 38-33. If Mable Device Induces R3022 and 802.350r CEC ortice 38.22 and 38-33. Provide IP addresses per KANE LMA schedule. IP addresses are required, but not limited to, KONE Group controllers (KCC), KONE Interface Controllers (KC), CNNE Interface Controllers (KC),	 KONE RemoteCall (if provided) 20. Provide one (1) dedicated CFU protected 120/XC 20- amp duplex (15 am in Canoda) autlet per the Remote Call wing deagrams. 21. KONE recommends on minimum 100 Mbil/s Ethernet for each of the following application(s): Security Integrated Touchcoreoux/Repade Dealation Operating Panets, Monitoring System, Multi-Medio Equipment, and Cand Readers. 22. Provide De addresses per KONE LMA subsidue IP addresses are required, but not imited to, KONE Group Cartrollers (KC), KONE Interface Controllers (KC), LAN Destination Operating Panets (DOP), LAN. 23. Provide and RAS CAE picto and network which in each elevotor machine room/control space that has an InfoScreen IS offline, none of the below is applicable. 24. Provide and RAS CAE picto and network waits in each elevotor machine room/control space that has an InfoScreen server. The lock is wired to a building LMI retwork with inferret access. In the machine room/control appace that has it to connect two Group Connection Boxes from two elevator machine room/control space. 25. Provide another RAS CAE pick and LVAN configuration to the next elevator machine room/control space bath as a elevator with infoScreen To Seconding Vise is to be used. It was a strange to the first infoScreen Coup Connection Box. 26. Provide addicated 115/AC, 15 Amp fused disconnect with ground PE per machine room/control space piped and wired to the first InfoScreen To Streeming Vise is to the used, be equipment and converters will be located in a building IT room as shown in the wing diagram. Provide another RAS CAE pick and UAN configuration in IndScreen IP network range for videe. Toxide the root in the machine room/control space back has the back for a back for other elevice that will atream composite video august. 27. If infoScreen TS Streeming Vise is to the used, back group Connection Box. Provide another RAS CAE pick and the track for the pick of the track for the track for the trac	APPROVED BY Preliminary FOR REFERENCE ONLY NOT FOR REFERENCE ONLY NOT FOR SOLUTION APPROVAL SPACE PROJECT: ALTOS ONE LOCATION: MONOSPACE 500 19.2–1 ENG/ARCH: SDG ARCH: SDG ARCH: SDG ARCH: SDG ARCH: SDG ARCH: CONTRACTOR: CLARUM CORPORATION
Constr-07-0666 (2018-10-16) People Flow Intelligence (PFI)		UNITS: IMPERIAL 1–20.2 – DRAWING DESCRIPTION SHEET
4 3	2	M-4233966-10010 CONTRACT 10 of 17 1

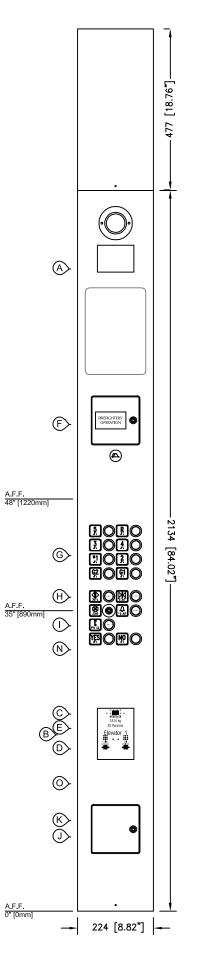


	1				
M	1 TYPE		DESCRIPTION		
LING	CL88		GHTG, ROUND LED	SPOTS	
FINISH	-		STAINLESS		
NISH	455	#4 STAIN		———————————————————————————————————————	
ATL. THICKNESS		16 GA			
L MATERIAL	4SS	#4 STAIN	LESS		
MATERIAL	L417	AMBER C			
MATERIAL	L417	AMBER C	HERRY		D
IAL	4SS	BRUSHED	STAINLESS STEEL		
IAL	AL	ALUMINU	A		
RAIL	HR61	ROUND:	D38 – 4SS		
ENDS	-	STRAIGHT	ENDS		
E FIRE RATING	BS	CLASS B	RATING (STD COL	OR)	
	1	FAN REQ			
r switch	-	REQUIRED)		
HICKNESS		1/2"			
		5.0 LBS/			
VEIGHT		3913 LB			
S	-	PADS RE	QUIRED		
APPROV	FOF	R REFERI			-
APPROV	Pre	R REFERI			
	Pre FOF NOT	R REFERI)	-
PROJEC	Pre FOF NOT	R REFERI			-
PROJEC	Pre FOF NOT	R REFERI		-	-
PROJEC ALTO: LOCATIO	CT: S ONE DN:	R REFERI			В
PROJEC ALTO: LOCATIC MONO	CT: S ONE DSPACE 500	R REFERI			в
PROJEC ALTO: LOCATIC MONO ENG/AI	CT: S ONE DSPACE 5000 RCH:	APPROVAL)	в
PROJEC ALTO: LOCATIC MONO ENG/AI SDG	CT: S ONE DSPACE 500 RCH: ARCHITECTU	APPROVAL			в
PROJEC ALTO: LOCATIC MONO ENG/AI SDG CONTR/	CT: S ONE DSPACE 500 RCH: ARCHITECTU	APPROVAL)	В
PROJEC ALTO: LOCATIC MONO ENG/AI SDG CONTR/	CT: S ONE DSPACE 500 RCH: ARCHITECTU ACTOR:	APPROVAL)	в
PROJEC ALTO: LOCATIC MONO ENG/AI SDG CONTR/	CT: S ONE DSPACE 500 RCH: ARCHITECTU ACTOR:	APPROVAL)	в
PROJEC ALTO: LOCATIC MONC ENG/AI SDG CONTR/ CLAR	CT: S ONE DSPACE 500 RCH: ARCHITECTU ACTOR:	APPROVAL)	в
PROJEC ALTO: LOCATIC MONO ENG/AI SDG CONTR/	CT: S ONE DSPACE 500 RCH: ARCHITECTU ACTOR:	APPROVAL			в
PROJEC ALTO: LOCATIO ENG/AI SDG CONTR/ CLAR	CT: S ONE DSPACE 500 RCH: ARCHITECTU ACTOR:	APPROVAL			в
PROJEC ALTO: LOCATIC MONO ENG/AI SDG CONTR/ CLAR	CT: S ONE DSPACE 500 RCH: ARCHITECTU ACTOR:	APPROVAL			B
PROJEC ALTOS LOCATIO MONO ENG/AI SDG CONTR/ CLAR	CT: S ONE DSPACE 500 RCH: ARCHITECTU ACTOR:	APPROVAL			B
PROJEC ALTO: LOCATIC MONC ENG/AI SDG CONTR/ CLAR	CT: S ONE DN: DSPACE 500 RCH: ARCHITECTU ACTOR: UM CORPOR	APPROVAL	SPACE) 	B
PROJEC ALTO: LOCATIC MONO ENG/AI SDG CONTR/ CLARI	CT: S ONE DN: DSPACE 500 RCH: ARCHITECTU ACTOR: UM CORPOR	APPROVAL 19.2–1 RE ATION	SPACE) 	B
PROJEC ALTO: LOCATIC MONO ENG/AI SDG CONTR/ CLARI	CT: S ONE DN: DSPACE 500 RCH: ARCHITECTU ACTOR: UM CORPOR	APPROVAL 19.2–1 RE ATION	SPACE) 	B
PROJEC ALTO: LOCATIC MONO ENG/AI SDG CONTR/ CLARI	CT: S ONE DSPACE 500 RCH: ARCHITECTU ACTOR: UM CORPOR	APPROVAL 19.2–1 RE ATION NETWORK NO	SPACE		B
PROJEC ALTO: LOCATIC MONO ENG/AI SDG CONTR/ CLARI	CT: S ONE DSPACE 500 RCH: ARCHITECTU ACTOR: UM CORPOR	REFERI FOR CON APPROVAL	SPACE	RY	B
PROJEC ALTO: LOCATIC MONO ENG/AI SDG CONTR/ CLARI	CT: S ONE DSPACE 500 RCH: ARCHITECTU ACTOR: UM CORPOR	REFERI FOR CON APPROVAL	SPACE	RY DN	
PROJEC ALTO: LOCATIO ENG/AI SDG CONTR/ CLAR V V V V F O V V V V S O V V V V S O V V V V S O V V V S D G V V V V V V V V V V V V V V V V V V	EM NO.	REFERI FOR CON APPROVAL 0 19.2–1 RE ATION NETWORK NO NETWORK NO NETWORK NO NETWORK NO NETWORK NO NETWORK NO NETWORK NO	SPACE	RY DN Y OF KONE	B
PROJEC ALTO: LOCATIO MONC ENG/AI SDG CONTR/ CLAR V V V V F O V V V V S O V V V V S O V V V S O V V V V	EM NO.	REFERI FOR CON APPROVAL 0 19.2-1 RE ATION NETWORK NO - MAT VO BY C WRIDENTIAL AND CTION OR DISS 0F KONE INC.	SPACE	RY DN Y OF KONE	
PROJEC ALTO: LOCATIO MONC ENG/AI SDG CONTR/ CLAR V V V V F O V V V V S O V V V V S O V V V S O V V V V	EM NO.	REFERI FOR CON APPROVAL 0 19.2–1 RE ATION NETWORK NO NETWORK NO NETWORK NO NETWORK NO NETWORK NO NETWORK NO NETWORK NO	SPACE	RY DN Y OF KONE	
PROJEC ALTO: LOCATIO MONO ENG/AI SDG CONTR/ CLAR V V V V V V V V V V V V V V V V V V V	EM NO.	REFERI FOR CON APPROVAL 0 19.2–1 IRE ATION NETWORK NO NETWORK NO DESCRIPTION NETWORK NO NETWORK NO NETWORK NO NETW	SPACE	RY DN Y OF KONE EXPRESS	
PROJEC ALTO: LOCATIC MONC ENG/AI SDG CONTR/ CLAR U N THIS INFOI INC. ITS	CT: S ONE DSPACE 500 RCH: ARCHITECTU ACTOR: UM CORPOR EM NO. 1-05-06 DATE I RMATION IS CON USE, REPRODU PERMISSION C	REFERI FOR CON APPROVAL 0 19.2–1 IRE ATION NETWORK NO NETWORK NO DESCRIPTION NETWORK NO NETWORK NO NETWORK NO NETW	SPACE	RY DN Y OF KONE	
PROJEC ALTO: LOCATIO MONC ENG/AI SDG CONTR/ CLAR V V V V V V V V V V V V V V V V V V V	CT: S ONE DSPACE 500 RCH: ARCHITECTU ACTOR: UM CORPOR EM NO. 1-05-06 DATE I EM NO. 1 EM NO. 1 TED ON: 05 IMPERIAL	REFERI FOR CON APPROVAL 0 19.2–1 IRE ATION NETWORK NO NETWORK NO DESCRIPTION NETWORK NO NETWORK NO NETWORK NO NETW	SPACE	RY DN Y OF KONE EXPRESS REV -	
PROJEC ALTO: LOCATIO MONC ENG/AI SDG CONTR/ CLAR V V V V V V V V V V V V V V V V V V V	CT: S ONE DSPACE 500 RCH: ARCHITECTU ACTOR: UM CORPOR EM NO. 1-05-06 DATE I EM NO. 1 EM NO. 1 TED ON: 05 IMPERIAL		SPACE	RY DN Y OF KONE EXPRESS	

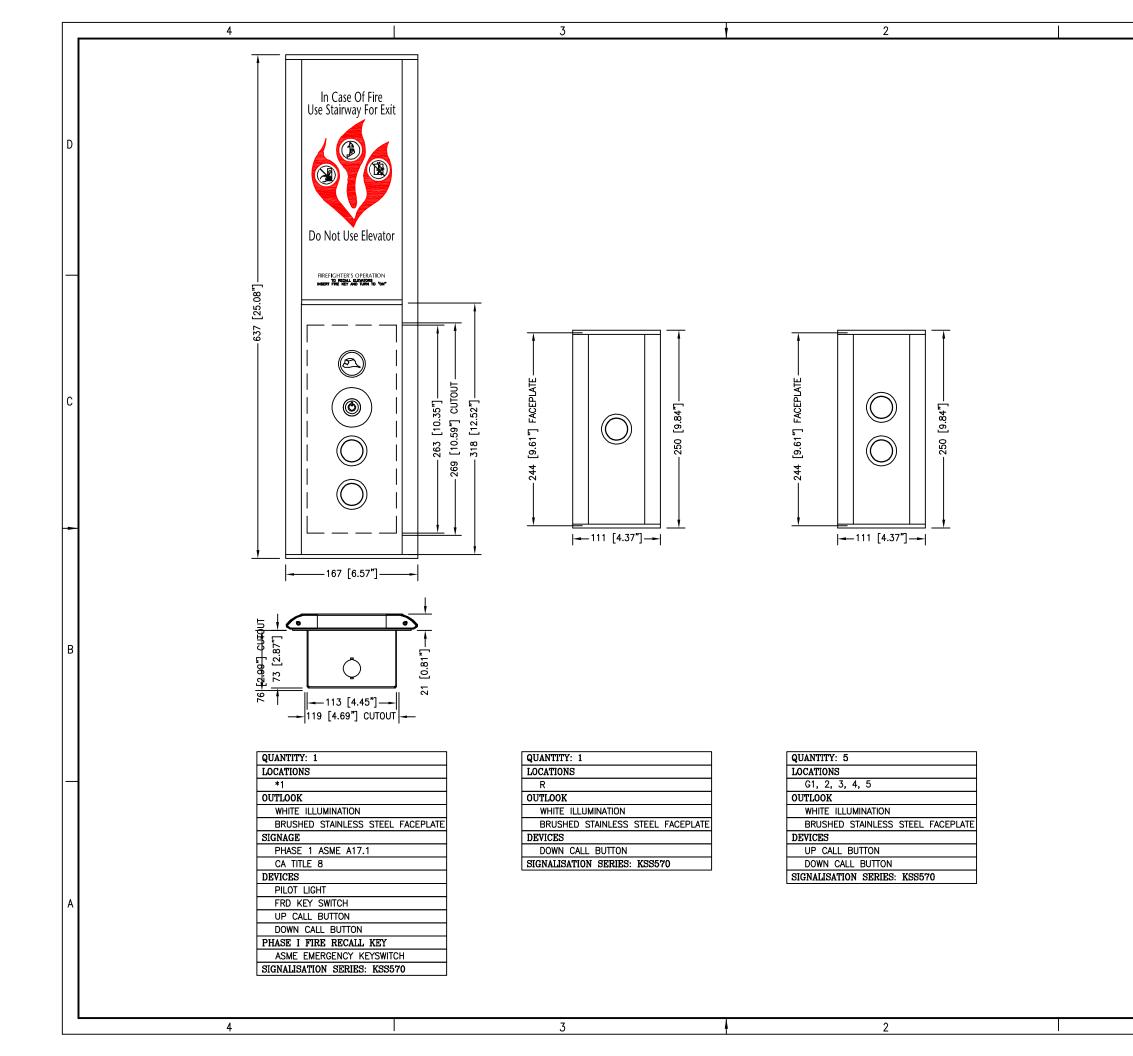


NUM 1 AMOY / SINGLE SPEED / CENTER OPENING - NONE - - 2 HOUR ULL - CLASS B - - 2 HOUR ULL - CLASS B - - 2 HOUR ULL - CLASS B - - - 2 HOUR				1					
SS - G2, G1, *1, 2, 3, 4, 5, R NUM 1 AMDY / SINGLE SPEED / CENTER OPENING KSS570 - - NONE - NOTES: A. DO NOT CONSTRUCT WALLS UNTIL DOOR FRAMES ARE SET. PROVED BY POR CONSTRUCTIVE APPROVED BY PROJECT: ALTOS ONE LOCATION: MONOSPACE 500 19						DE	SCRIPTION		
NUM 1 AMDY / SINGLE SPEED / CENTER OPENING - NONE - - NOR - - - NORE - 2 HOUR UL - CLASS B - 2 HOUR UL - CLASS B									
Image: start of the start	GS	-	(G2, G1,	*1, 2	2, 3,	4, 5, R		
	NUM	1	/	AMDY /	SING	LE S	PEED / CENTER	OPENING	
		KSS	570 ·	-					
- NONE D - NONE D 16 GA #4 STAINLESS STEEL 10N - KNOCK-DOWN STYLE BOLTED - NONE 16 GA F4 STAINLESS STEEL NARROW EXTRUCED ALUMINUM ARD 16 GA OK CUANTIZED STEEL 48" WIDE CJ6S SURFACE MOUNTED, WHITE ON BLACK - 2 HOUR ULL - CLASS B - PROVED BY - PROVED ST - PROVED ST - PROVED ST </td <td></td> <td>-</td> <td>i</td> <td>NONE</td> <td></td> <td></td> <td></td> <td></td> <td></td>		-	i	NONE					
- NONE - NONE - KNOCK-DOWN STYLE BOLTED - NONE - NONE - NONE - NONE - NONE - NONE 16 GA #4 STAINLESS STEEL NARROW EXTRUDED ALLMINUM ARD 16 GA GALVANIZED STEEL 48" WIDE CUSS SURFACE MOUNTED, WHITE ON BLACK CUS SURFACE MOUNTED, WHITE ON BLACK - 2 HOUR U.L CLASS B - 4 ONTERSEARE SET. APPROVED BY PREJERINCE ONLY NOT FOR CONSTRUCT WALLS UNTIL DOOR FRAMES ARE SET. APPROVED BY PROJECT: ALTOS ONE LOCATION: MONOSPACE 500 19.2-1 ENG ARCHIECTURE CONTRACTOR: CLARUM CORPORATION V		-	I	NONE					
- NONE - NONE - KNOCK-DOWN STYLE BOLTED - NONE - NONE - NONE - NONE - NONE - NONE 16 GA #4 STAINLESS STEEL NARROW EXTRUDED ALLMINUM ARD 16 GA GALVANIZED STEEL 48" WIDE CUSS SURFACE MOUNTED, WHITE ON BLACK CUS SURFACE MOUNTED, WHITE ON BLACK - 2 HOUR U.L CLASS B - 4 ONTERSEARE SET. APPROVED BY PREJERINCE ONLY NOT FOR CONSTRUCT WALLS UNTIL DOOR FRAMES ARE SET. APPROVED BY PROJECT: ALTOS ONE LOCATION: MONOSPACE 500 19.2-1 ENG ARCHIECTURE CONTRACTOR: CLARUM CORPORATION V		- 1	i	NONE					ח
16 GA #4 STAINLESS STEEL ION - ION - NONE - IG - IG A IG GA IG AVAINZED IG GA IG IG IG IG IG IG IG IG IG		-							
IDN - KNOCK-DOWN STYLE BOLTED 16 GA #4 STAINLESS STEEL NARROW EXTRUEDS ALUMINUM ARD 16 GA GALVANIZED STEEL 48" WIDE CJ6S SURFACE MOUNTED, WHITE ON BLACK - - 2 HOUR U.L CLASS B - - 2 HOUR OF CONSTRUCT WALLS UNTIL DOOR - FRAMES ARE SET. - - - PERCENTRATION - - - - - - APPROVED BY - - - - - - - - - - - - -		-			ILESS	STE	FI		
		<u> </u> _							
16 GA #4 STAINLESS STEEL NARROW EXTRUDED ALUMINUM ARD 16 GA GALVANIZED STEEL 48" WIDE CJ65 SURFACE MOUNTED, WHITE ON BLACK - 2 HOUR ULL - CLASS B - YEREFERENCE ONLY NOT FOR CONSTRUCTION - PROVED BY - PROVED BY - PROVED BY - PROVED BY - PROVED CONSTRUCT SOLUTY - PROVECT: ALTOS ONE LOCATION: MONOSPACE 500 19.2-1 ENC/ARCH: SDG ARCHITECTURE DATE INFORMONE B CONTEND					DOMN	311			
NARROW EXTRUDED ALUMINUM ARD 16 GA GALVANIZED STEEL 48" WIDE CJ6S SURFACE MOUNTED, WHITE ON BLACK - 2 HOUR ULL - CLASS B	,	-				CT	5		
ARD 16 GA GALVANIZED STEEL 48" WIDE CJ6S SURFACE MOUNTED, WHITE ON BLACK – 2 HOUR U.L. – CLASS B – 2 HOUR U.L. – CLASS B – C – 2 HOUR U.L. – CLASS B – C – 2 HOUR U.L. – CLASS B – C NOTES: A. DO NOT CONSTRUCT WALLS UNTIL DOOR FRAMES ARE SET. APPROVED EY PROLECT: ALTOS ONE NOT FOR CONSTRUCTION APPROVAL SPACE PROJECT: ALTOS ONE LOCATION: MONOSPACE SOG ARCHITECTURE CONTRACTOR: CLARUM CARCHITECTURE CONTRACTOR: CLARUM CARCHITECTURE CONTRACTOR: CLARUM MAT PRELIMINARY M M MAT PRELIMINARY MAT PRELIMINARY A M M MAT PRELIMINARY MAT PRELIMINARY									
CJ6S SURFACE MOUNTED, WHITE ON BLACK - 2 HOUR U.L CLASS B - 2 HOUR U.L CLASS B - C NOTES: A. DO NOT CONSTRUCT WALLS UNTIL DOOR FRAMES ARE SET. PROVED BY POR REFERENCE ONLY POR REFERENCE ONLY NOT FOR CONSTRUCTION APPROVED BY PROJECT: ALTOS ONE LOCATION: APPROVAL SPACE PROJECT: ALTOS ONE LOCATION: MONOSPACE 500 19.2-1 ENG/ARCH: SDG ARCHITECTURE CONTRACTOR: CLARUM CORPORATION UNITS: INFORMATION IS CONTRIDUCTION ON DESOMITION WITON THE CORRESS MO BY CONTRACTOR: CLARUM CORPORATION MO BY CK IS STRCILY PROHIBIED. MO BY MO BY MONSPACE 500 19.2-1 ENG, ARCH: SDG ARCHITECTURE CONTRACTOR: CLARUM CORPORATION CLARUM CORPORATION ECONTRACTOR: CLARUM CORPORATION IS CONTRUCTION ON DESOMINION WITHE CORRESS MO BY CK O									
	ard	-							
NOTES: A. DO NOT CONSTRUCT WALLS UNTIL DOOR FRAMES ARE SET.								ACK	
A. DO NOT CONSTRUCT WALLS UNTIL DOOR FRAMES ARE SET.									с
PROJECT: ALTOS ONE LOCATION: MONOSPACE 500 19.2–1 ENG/ARCH: SDG ARCHITECTURE CONTRACTOR: CLARUM CORPORATION UN TEM NO. NETWORK NO. EQUIPMENT NO. R 2021–05–06 – MAT PRELIMINARY DATE NO BY CK DESCRIPTION THS INFORMATION IS CONFIDENTIAL AND REMAINS THE PROPERTY OF KONE NC. ITS USE. REPRODUCTION OR DISSEMINATION WITHOUT THE DXPRESS PERMISSION OF KONE INC. IS STRICTLY PROHIBITED. GENERATED ON: 05/06/21 BY: MMA REV UNITS: IMPERIAL 1–20.2 – DRAWING E–4233966–10010–010 ENTRANCE 12 of 17		A.	DO NOT (UCT	WAL	ls until doo	ſŔ	
B MONOSPACE 500 19.2–1 ENG/ARCH: SDG ARCHITECTURE CONTRACTOR: CLARUM CORPORATION UN THEM NO. NETWORK NO. EQUIPMENT NO. R UN COUPLET NO. NETWORK NO. EQUIPMENT NO. R COUPLET NO. NETWORK NO. EQUIPMENT NO. COUPLET NO. COUPLET NO. NETWORK NO. EQUIPMENT NO. COUPLET N		AF	P	FOR H	REFE OR C	RE	NCE ONLY STRUCTION		-
B MONOSPACE 500 19.2–1 ENG/ARCH: SDG ARCHITECTURE CONTRACTOR: CLARUM CORPORATION UN THEM NO. NETWORK NO. EQUIPMENT NO. R UN COUPLET NO. NETWORK NO. EQUIPMENT NO. R COUPLET NO. NETWORK NO. EQUIPMENT NO. COUPLET NO. COUPLET NO. NETWORK NO. EQUIPMENT NO. COUPLET N			ALTOS ONE	:					
SDG ARCHITECTURE CONTRACTOR: CLARUM CORPORATION	ב + ס		MONOSPACI	E 500 1	9.2-	1			В
Image: Solution of Kone Inc. Image: Solution of Kone Inc. Image: Solution of Kone Inc. Image: Solution of Kone Inc. Image: Solution of Kone Inc. Image: Solution of Kone Inc. Image: Solution of Kone Inc. Image: Solution of Kone Inc. Image: Solution of Kone Inc. Image: Solution of Kone Inc. Image: Solution of Kone Inc. Image: Solution of Kone Inc. Image: Solution of Kone Inc. Image: Solution of Kone Inc. Image: Solution of Kone Inc. Image: Solution of Kone Inc. Image: Solution of Kone Inc. Image: Solution of Kone Inc. Image: Solution of Kone Inc. Image: Solution of Kone Inc. Image: Solution of Kone Inc. Image: Solution of Kone Inc. Image: Solution of Kone Inc. Image: Solution of Kone Inc. Image: Solution of Kone Inc. Image: Solution of Kone Inc. Image: Solution of Kone Inc. Image: Solution of Kone Inc. Image: Solution of Kone Inc. Image: Solution of Kone Inc. Image: Solution of Kone Inc. Image: Solution of Kone Inc. Image: Solution of Kone Inc. Image: Solution of Kone Inc. Image: Solution of Kone Inc. Image: Solution of Kone Inc. Image: Solution of Kone Inc. Image: Solution of Kone Inc. Image: Solution of Kone Inc. Image: Solution of Kone Inc. Image: S			SDG ARCHI						
Image: Second Structure Image: Second Structure Image: Second Structure Image: Second Structure Image: Second Structure Image: Second Structure Image: Second Structure Image: Second Structure Image: Second Structure Image: Second Structure Image: Second Structure Image: Second Structure Image: Second Structure Image: S		\vdash	CLARUM CO		ION				
Image: Second Structure Image: Second Structure Image: Second Structure Image: Second Structure Image: Second Structure Image: Second Structure Image: Second Structure Image: Second Structure Image: Second Structure Image: Second Structure Image: Second Structure Image: Second Structure Image: Second Structure Image: S		_		_					
TIEM NO. NETWORK NO. EQUIPMENT NO. THIS INFORMATION IS CONFIDENTIAL AND REMAINS THE PROPERTY OF KONE INC. IS USE REPRODUCTION OR DISSEMINATION WITHOUT THE EXPRESS PERMISSION OF KONE INC. IS STRCITLY PROHIBITED. THIS INFORMATION IS CONFIDENTIAL AND REMAINS THE PROPERTY OF KONE INC. IS USE REPRODUCTION OR DISSEMINATION WITHOUT THE EXPRESS PERMISSION OF KONE INC. IS STRCITLY PROHIBITED. GENERATED ON: 05/06/21 BY: MMA REV UNITS: IMPERIAL 1-20.2 T DRAWING E-4233966-10010-010 ENTRANCE 12 of 17		Ň					+		
Image: Second Science of							1		
ITEM NO. NETWORK NO. EQUIPMENT NO. ITEM NO. NO BY ITEM NO. DATE NO INC. THS INFORMATION IS CONFIDENTIAL AND REMAINS THE PROPERTY OF KONE INC. IS STRICTLY PROHIBITED. INC. THS INFORMATION OF DISSEMUATION WITHOUT THE EXPRESS PERMISSION OF KONE INC. IS STRICTLY PROHIBITED. INC. THS INFORMATION OF DISSEMUATION WITHOUT THE EXPRESS PERMISSION OF KONE INC. IS STRICTLY PROHIBITED. INC. THE INC. INC. INC. THE INC. <	_	N F					1		
R V		٥					1		
R V									
R V			ITEM NO	. NET	TWORK	NO.	EQUIPMEN	T NO.	
NO BY CK DESCRIPTION THIS INFORMATION IS CONFIDENTIAL AND REWAINS THE PROPERTY OF KONE INC. ITS USE, REPRODUCTION OR DISSEMINATION WITHOUT THE EXPRESS PERMISSION OF KONE INC. IS STRICTLY PROHIBITED. A KOR RE GENERATED ON: 05/06/21 BY: MMA REV UNITS: IMPERIAL 1-20.2 - DRAWING DESCRIPTION SHEET E-4233966-10010-010 ENTRANCE 12 of 17									
NO BY CK DESCRIPTION THIS INFORMATION IS CONFIDENTIAL AND REWAINS THE PROPERTY OF KONE INC. ITS USE, REPRODUCTION OR DISSEMINATION WITHOUT THE EXPRESS PERMISSION OF KONE INC. IS STRICTLY PROHIBITED. KOR RE GENERATED ON: 05/06/21 BY: MMA UNITS: IMPERIAL 1-20.2 DRAWING DESCRIPTION E-4233966-10010-010 ENTRANCE		Ē			1				
NO BY CK DESCRIPTION THIS INFORMATION IS CONFIDENTIAL AND REWAINS THE PROPERTY OF KONE INC. ITS USE, REPRODUCTION OR DISSEMINATION WITHOUT THE EXPRESS PERMISSION OF KONE INC. IS STRICTLY PROHIBITED. KOR RE GENERATED ON: 05/06/21 BY: MMA UNITS: IMPERIAL 1-20.2 DRAWING DESCRIPTION E-4233966-10010-010 ENTRANCE		ŝ							
THIS INFORMATION IS CONTIDENTIAL AND REMAINS THE PROPERTY OF KONE INC. ITS USE, REPRODUCTION OR DISSEMINATION WITHOUT THE EXPRESS PERMISSION OF KONE INC. IS STRICTLY PROHIBITED.		ļ	2021-05-	-06 –	MAT		PRELIMIN	ARY	
INC. ITS USE, REPRODUCTION OR DISSEMINATION WITHOUT THE EXPRESS PERMISSION OF KONE INC. IS STRICTLY PROHIBITED. KON E GENERATED ON: 05/06/21 BY: MMA REV UNITS: IMPERIAL 1–20.2 – DRAWING DESCRIPTION SHEET E-4233966–10010–010 ENTRANCE 12 of 17		S	DATE	NO	BY	СК	DESCRIPT	TION	
PERMISSION OF KONE INC. IS STRICTLY PROHIBITED. KONE E GENERATED ON: 05/06/21 BY: MMA REV UNITS: IMPERIAL 1–20.2 - DRAWING DESCRIPTION SHEET E-4233966-10010-010 ENTRANCE 12 of 17		THIS		IS CONFIE	ENTIAL	AND	REMAINS THE PROPER	RTY OF KONE	A
GENERATED ON: 05/06/21 BY: MMA REV UNITS: IMPERIAL 1-20.2 - DRAWING DESCRIPTION SHEET E-4233966-10010-010 ENTRANCE 12 of 17			U. IIS USE, R PERMIS	SSION OF I	KONE I	NC. IS	STRICTLY PROHIBITE	ie express D.	
UNITS: IMPERIAL 1-20.2 - DRAWING DESCRIPTION SHEET E-4233966-10010-010 ENTRANCE 12 of 17					K	26	E		
UNITS: IMPERIAL 1-20.2 - DRAWING DESCRIPTION SHEET E-4233966-10010-010 ENTRANCE 12 of 17		05)N+ ∩5 /r)6/21		BY: MMA	REV	
DRAWING DESCRIPTION SHEET E-4233966-10010-010 ENTRANCE 12 of 17					70/ZI				
E-4233966-10010-010 ENTRANCE 12 of 17				AL			1	Ļ	
<u>. </u>				10010-0	010				
				1					•

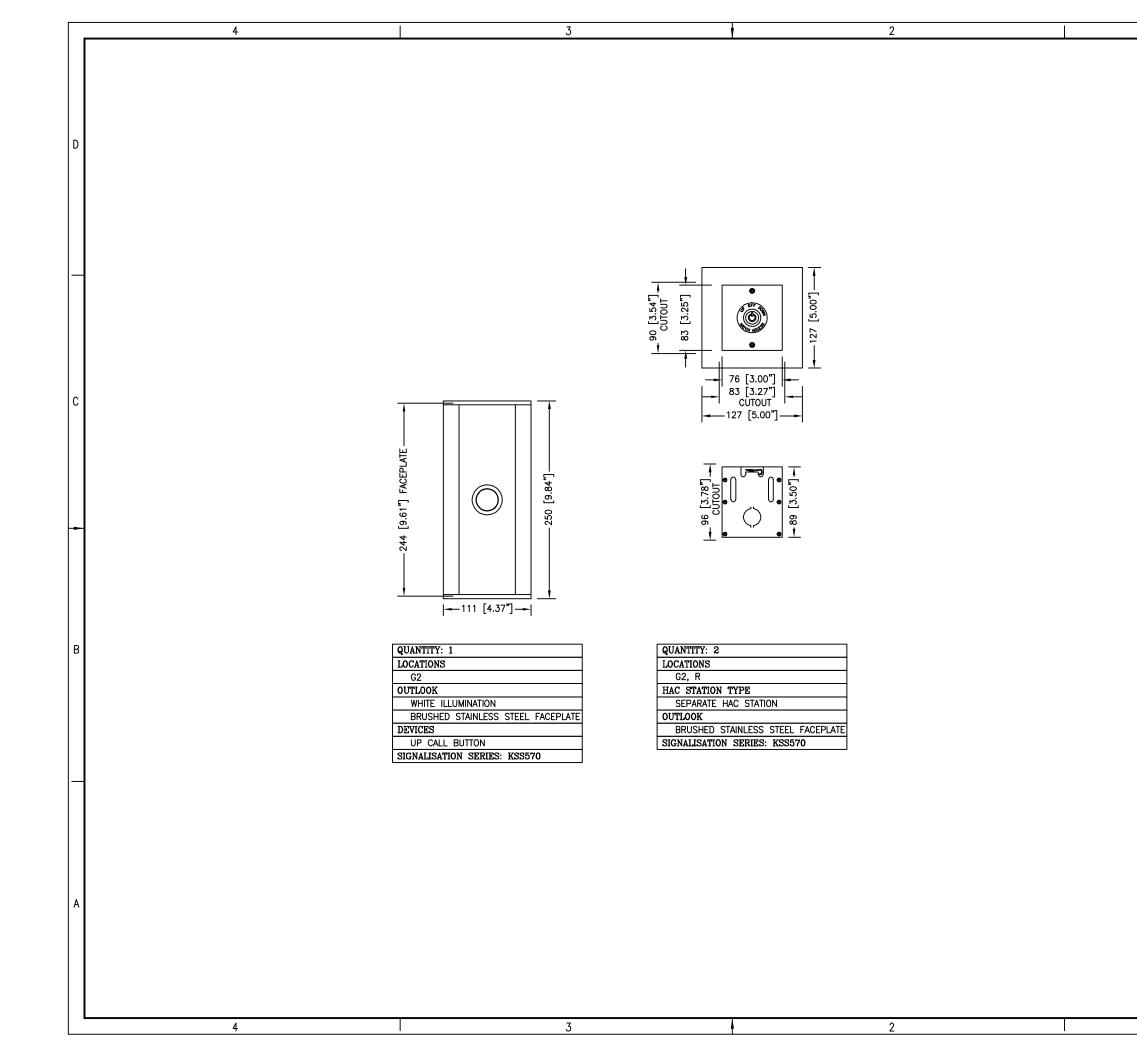
		4	3	
		3 2 CORNER LOCATON 4 1 FRONT		
В				
	K N O	OUTLOOK 441 BRUSHED STAINLESS STEEL COP'S EMERGENCY LIGHT ACU SPEAKER GRILL		
		ACCESS ENABLE LIGHT SWITCH FAN SWITCH INDEPENDENT SERVICE		
		DOOR OPEN BUTTON DOOR CLOSE BUTTON EMERGENCY PHONE HELP BUTTON OPTIONAL DEVICES		
	G H	CALL BUTTONS CALIFORNIA PROJECTING WHITE ILLUMINATION CONTROL BUTTONS		
с		DOOR OPEN BUTTON PHASE II FIRE INDICATOR DOOR CLOSE BUTTON		
	F	FIRE FIGHTERS OPERATION PANEL CALL CANCEL ASME EMERGENCY KEYSWITCH STOP SWITCH		
	E	INFORMATION TEXT ELEVATOR ID 1		
	D	1814kg 25 PERSONS EMERGENCY COMMUNICATION		
	B C	EMERGENCY COMMUNICATION MICROPHONE AND SPEAKER LOAD PLATE 4000 LB		
		DIRECTION OF TRAVEL ARROW WHITE ILLUMINATION KONE 24/7 EMERGENCY COMMUNICATIONS		
D	A	FLUSHED POSITION INDICATOR DOT MATRIX		
		KSS570 COP MOUNTING TYPE		
		CORNER LOCATION 1 SIGNALIZATION SERIES	_	
		ELEVATOR CODE YEAR 2004		



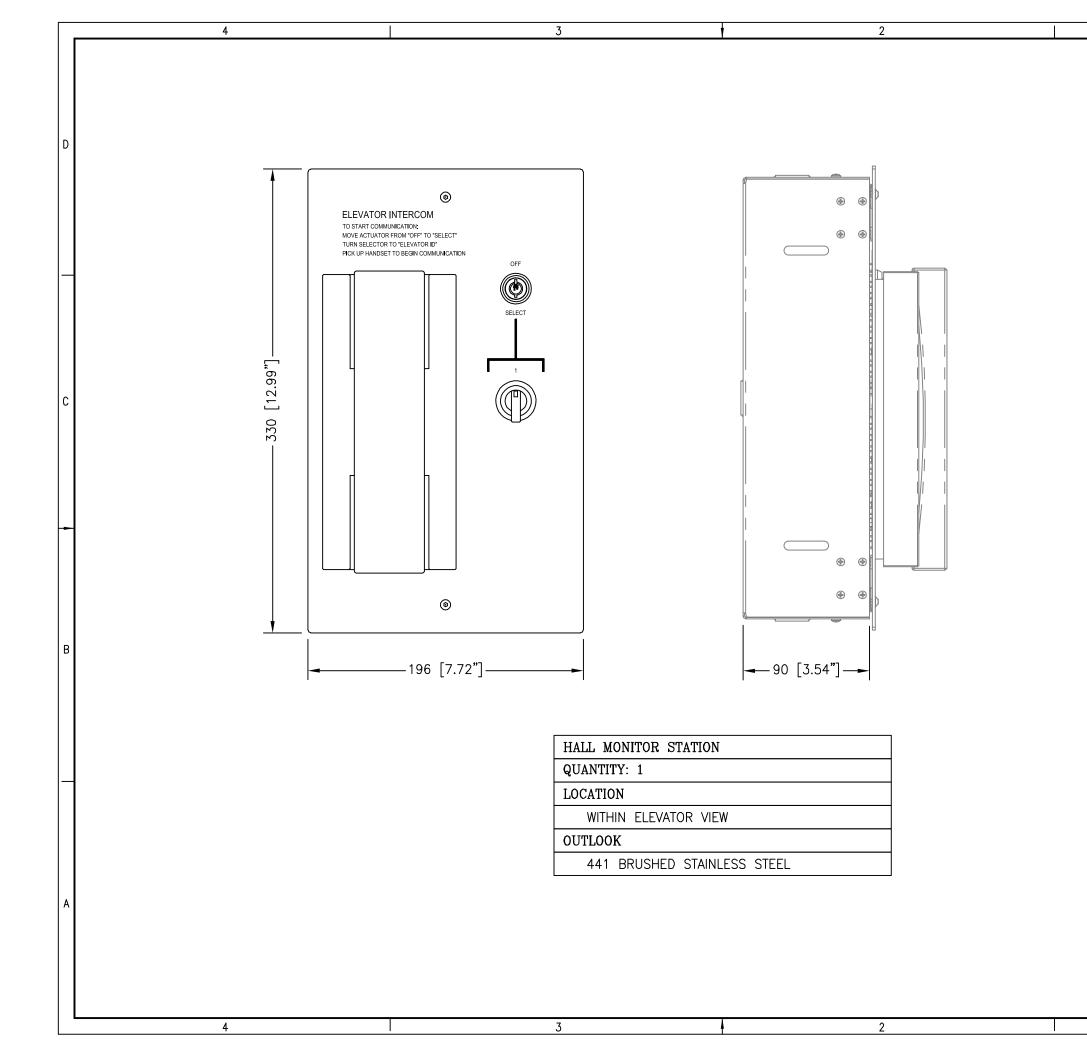
1				
				D
				с
PROJECT: ALTOS ONE LOCATION: MONOSPACE 50 ENG/ARCH: SDG ARCHITECT CONTRACTOR: CLARUM CORPO	APPROVAL	NCE ONLY STRUCTION		B
ITEM NO. ITEM NO. ITEM NO. P V V V V V V V V V V V V V		PRELIMIN DESCRIPT REMAINS THE PROPE MINATION WITHOUT TH S STRICTLY PROHIBITED	ARY TION RTY OF KONE HE EXPRESS	
STATUS INT LIVIAL				



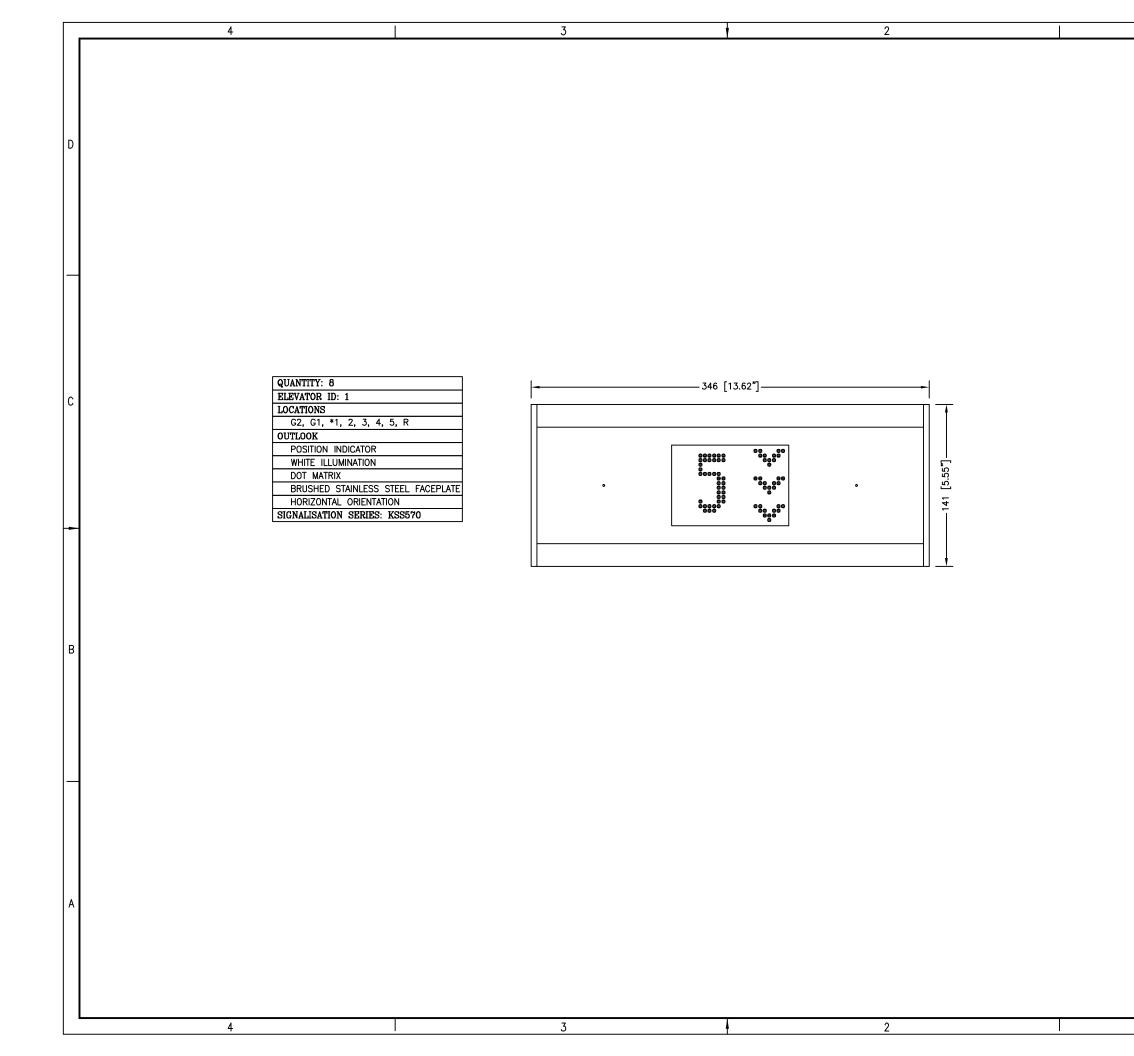
	1						
							D
							с
Pf LC Ef V N	F	OR F T FC AF 00 1 TURE	9.2-	RE ON	INCE ONLY STRUCTION SPACE		E
	ITEM NO. 2021-05-06 DATE S INFORMATION IS 0 C. ITS USE, REPRO PERMISSION	- NO CONFID DUCTIO NOF F		CK AND DISSE	PRELIM DESCRI REMAINS THE PROF MINATION WITHOUT STRICTLY PROHIBI E BY: MMA	NARY PTION ERTY OF KONE THE EXPRESS	
-	NITS: IMPERIAL				1-20.2		L



1			
PROJECT: ALTOS ONE LOCATION: MONOSPACE 50 ENG/ARCH: SDG ARCHITEC CONTRACTOR: CLARUM CORPO	T FOR CC APPROVA 00 19.2-1 TURE	ENCE ONL	
R V V V V V V V V V V V V V V V V V V V	CONFIDENTIAL A	PR PR CK DE ID REMAINS THE SSEMINATION WITH IS STRICTLY PR NE	OHIBITED.
Generated on: (Units: Imperial	05/06/21	BY: MMA 1-20.2	REV



	1							
								D
								С
PI LC EI	F	DR F T FC AF	9.2-	RE ON		y		E
	ITEM NO. 2021-05-06 DATE S INFORMATION IS 0 C. ITS USE, REPRO PERMISSION	- NO CONFID DUCTIC	K	CK AND DISSE	PRELII DESCF REMAINS THE PRO MINATION WITHOUT STRICTLY PROHIE	Minar) Ription Sperty	(
GE				I		1		



	1						
							D
							с
PF LC EN	FC	DR F T FC AF	9.2-	AL S	INARY NCE ONLY STRUCTION SPACE		B
	PERMISSION	- NO CONFID DUCTIC		CK AND DISSE NC. IS		ARY ION TY OF KONE E EXPRESS),	A
UN DR	NERATED ON: (ITS: IMPERIAL AWING 4233966-100				BY: MMA 1-20.2 DESCRIPTION HL	REV - SHEET 17 of 17	

The following items must be performed or provided at no cost to Otis Elevator Company ("OTIS") by the Owner or General Contractor or their agents in accordance with governing codes. The price and installation schedule of Otis is based on these job-site conditions existing at the beginning and during the installation of the elevator equipment. Failure to provide the items specified in this list will result in additional work performed by Otis Elevator beyond the scope of our contract causing installation delays. A change order will be submitted by Otis for materials and/or labor expended. All work must be performed per the applicable national and or local codes.

General Prep/Work

- 1. Provide on-site storage area for elevator equipment as follows: dry and enclosed, provides roll-able access to the elevator hoistway at the ground level, located within 100 feet (30480mm) of the hoistway and is larger than 25 x 20 feet (7620mm x 6096mm) per elevator. Any warranties provided by Otis for elevator equipment are null and void if equipment is stored in a manner other than a dry enclosed building structure.
- 2. Provide sufficient on-site refuse containers for the proper disposal of elevator packaging material. Should sufficient refuse containers not be provided, disposal of packaging material shall become the responsibility of the owner.
- 3. Provide any cutouts to accommodate elevator equipment (troughing, venting, and hall fixtures), along with the patching/painting of walls, floors, or partitions together with finish painting of entrance doors and frames, if required.

Hoistway & Pit Prep/Work

- 4. Provide and install a steel, I-beam shaped safety beam with a maximum flange width of 8 11/16" (220mm), from side wall to side wall at the top of the hoistway, capable of withstanding a minimum net live load of 7500 lb (3402kg) per elevator. Reference Otis Layout for location. A 4" minimum clearance is required from top of beam to top of hoistway.
- 5. Provide a clear plumb hoistway with variations from the size shown on the Otis layout not to exceed -0"/+1"(25mm) and not less than the clear dimensions shown on the Otis layout
- 6. Provide adequate rail bracket supports, bracket spacing as required by governing code, from pit floor to top of hoistway to comply with the rail reaction forces detailed on the Otis Contract Layout. Provide adequate support for the top rail brackets at locations above the top landing as specified on the Otis Layout. Provide separator beams where required. Unless approved by Otis, rail-bracket attachment supports must be exposed and flush with the clear hoistway line.

If the floor-to-floor height exceeds the maximum bracket spacing allowed by the elevator code, Otis requires some form of steel support to properly attach our guide rail brackets. The maximum allowed bracket spacing is indicated in the rail force and bracket detail table on the Otis layout. Any rail bracket mounting surfaces that are not in line with the finished hoistway dimension (i.e. the clear hoistway line) may need to be extended to meet the required distance. Otis agrees to provide guidance on this matter at the appropriate time.

If rail bracket embedded plates or inserts are provided by Otis they shall be installed by others in accordance with Otis documentation and instructions.

- If vertical tube steel is utilized as rail support, see the Otis layout for any specific requirements.
- 7. Provide adequate support at all fastening points of each entrance. Provide plumb vertical surfaces for entrances and entrances and building sill line. For MRL installations, a horizontal support member is to be provided 20" (508mm) above the clear opening at the controller landing to support the entrance and controller components. If any other floor height exceeds 12'-0" (3657mm), a horizontal support member is to be provided 12" (305mm) above the clear opening. For MRL installations, if entrance finish protection is installed, a section of such protection must be removable to allow safe and convenient access to the Inspection & Test panel of the elevator.
- 8. Prior to the start of installation, provide a dry, properly framed, enclosed and vented hoistway in accordance with all applicable codes.
- 9. A.) Protection from Falls:
 - As required by the Occupational Safety and Health Administration (OSHA) 1926.502 B) (1-3) a freestanding removable barricade at each hoistway opening at each floor. Barricades shall be 42" (1067mm) high, with mid-rail and kick board, and withstand 200 lbs. (90.7kg) of vertical and horizontal pressure.

B.) Protection from Falling Objects:

- As required by the Occupational Safety and Health Administration (OSHA) 1926.502(j) hoistway protection from falling debris and other trades materials by either:
 - 1.)Full entrance screening/mesh in front of all elevator entrances

2.)Secured/controlled access to all elevator lobbies (lock and key) with posted Notice "only elevator personnel beyond this protection."

Notes: Items A.) and B.) can be integrated systems.

Hoistway barricades and screening shall be constructed, maintained and removed by others.

10. Provide a pit floor designed to sustain vertical forces (based on safety impact) on car and counterweight rails and impact loads on car and counterweight buffers as shown on the Otis layout. The pit must be dry and clean. The elevator pit must have a floor drain or sump pump to prevent the accumulation of water. Location to be coordinated with Otis to avoid all elevator components and access areas. In areas requiring fire fighters emergency operation (FEO) a sump pump/drain shall be provided that shall have the capacity to remove a minimum of 11.4m3/h (3,000 gal/h) per elevator (ASME A17.1/CSA B44 latest applicable code year section 2.2.2.5). Otis recommends that the owner verify the drain or sump pump system is in compliance with all applicable codes and laws.

11. TOP and BOTTOM landings (and the MAIN landing where applicable), are not to be constructed until after all elevator equipment is installed in the hoistway. The entire front wall must be open for installation with the following rough opening dimensions (to be shown on layouts): -Rough Opening Width = CLEAR HOISTWAY WIDTH

- -Rough Opening Height

= 2642mm (8'-8") for a 2134mm (7') entrance height 2947mm (9'-8") for a 2438mm (8') entrance height If the controller is located on the REAR entrance, the wall at this rear entrance should also have these rough opening dimensions. Remaining front entrance walls are not to be constructed until after door frames and sills are in place.

The rough openings, per sizes shown on the Otis layout, are required. Prior to the completion and turnover of the elevator(s), all entrance walls must be installed and rough openings filled in complete to maintain fire rated hoistway requirements.

- 12. Provide and install a fixed vertical iron ladder in each pit as required by governing code and located per Otis layout or as coordinated with Otis personnel. Ladder width and pit wall pocket requirements are shown in the pit plan view on the Otis layout. For entrance heights of up to 7' (2134mm) the top rung of the ladder must be even with the bottom landing. For entrance heights greater than 7' (2134mm) the top rung must be 12' (305mm) above the bottom landing. Hand grips must be provided to a height of 4' (1219mm) above the bottom landing. Hand grips must have 4-1/2" (114mm) radial clearance, from their centerline, to any obstruction in the hoistway. (Refer to the detail views for typical ladder arrangement)
- 13. Install permanent light fixture in each elevator pit with illumination of not less than 100 lx (10 fc) as measured at the pit floor. The light bulb(s) shall be externally guarded to prevent contact and accidental breakage. The light switch shall be so located as to be accessible from the pit ladder.
- 14. Glass used in hoistway construction must block 98% or more of incident full-spectrum ultraviolet radiation for the full height of the hoistway.
- 15. Provide and install guarding of counterweight in a multiple-elevator hoistway as required, when a counterweight is located between elevators, the counterweight runway shall be guarded on the side next to the adjacent elevator. The guarding must meet or exceed the requirements of ASME A17.1/CSA B44 latest applicable code year, section 2.3.2.3.
- If an emergency door in a blind hoistway is required, provide an outward swinging single section type door with door closer and a self closing barrier per ASME A17.1/CSA B44 latest applicable code year, section 2.11.1.2. Contact your local Otis personnel for a detailed drawing (AAA26900D_FMI) showing Otis specific requirements.

MRL Machine Space Prep/Work

- 16. Maintain the temperature at the top of the hoistway (machine space) between 32° F (0° C) and 104° F (40° C). This space also includes the the car controller which is mounted at the top landing. Relative humidity shall not to exceed 95% non-condensing. Provide ventilation to suit Otis heat release amounts as shown in Otis Confirmation of Power Supply form. Local codes may require tighter temperature ranges and higher ventilation levels. Please check with your local code authority for the exact requirements in your area. If your machinery space temperature exceeds this requirement, contact your local Otis sales representative for assistance.
- 17. Install a permanent light fixture at the top of the hoistway (machine space) of not less than 200-lux (19 fc) as measured at the level of the standing surface on the car when the elevator is at the top landing. Light switch is to be located in the hoistway per the Otis layout.
- 18. Install a permanent light fixture at the top landing entrance (control space), in the hall, of not less than 200-lux (19 fc) as measured at the floor level. Light switch is to be located close to the elevator entrance.

Control Room/Space and Machine Space Prep/Work

- 19. Provide a suitable control room/space(s) with access and ventilation in accordance with all applicable codes and regulations. The control room/space(s) shall be maintained at a temperature between 32F (0C) and 104F (40C) to be measured 6 feet (1830 mm) above the floor and 1 foot (305 mm) out from the front center of the car controller(s). Relative humidity is not to exceed 95% non-condensing. Provide ventilation to suit Otis heat release amounts as shown on the Otis Confirmation of Power Supply form. Local codes may require tighter temperature ranges and higher ventilation levels, please check with your local code authority for the exact requirements in your area. If your control room/space(s) temperatures exceed these requirements, contact your local Otis sales area. If your control room/space(s) temperatures exceed these requirements, contact your local Otis sales representative for assistance.
- 20. Provide illumination of control room/space(s) of not less than 200 LUX (19 FC) as measured at floor level. Light switch is to be located within 18" (157 mm) to the lock-jamb side of the access door to the control room/space(s).
- 21. Provide control room/space(s) with self-closing and self-locking doors with a group 2 locking device. In addition, ensure that all air gaps around the doors are sealed (i.e. threshold, weather stripping, etc.).
- 22. Maintain the temperature at the top of the hoistway (machine space) between 32° F (0° C) and 104° F (45° C). Relative humidity shall not to exceed 95% non-condensing. Provide ventilation to suit Otis heat release amounts as shown in Otis Confirmation of Power Supply form. If your machinery space temperature exceeds this requirement, contact your local Otis sales representative for assistance.
- 23. Install a permanent light fixture at the top of the hoistway (machine space) of not less than 200-lux (19 fc) as measured at the level of the standing surface on the car when the elevator is at the top landing. Light switch is to be located in the hoistway per the Otis layout.

Fire Prevention Prep/Work

- 24. Provide hoistway walls designed and constructed in accordance with the required fire rating (including those places where elevator fixture boxes, rail bracket fastenings, and any other penetration into the hoistway walls).
- 25. In the United States provide smoke detectors, located as required, with wiring from the sensing devices to the controller(s) designated by Otis. A. For each group of elevators, provide a normally closed contact representing the smoke detector at the designated return landing.
 - B. For each group of elevators, provide a normally closed contact representing all smoke detectors located in lobbies, hoistways, or control rooms/spaces but not the smoke detector at the designated return landing (see above) or the smoke detectors as described below: 1) If a smoke detector is located in the hoistway at or below the lower of the two recall landings, it shall be wired to activate the same normally closed contact as the smoke detector located in the lobby at the lower of the two recall landings.
 - 2) If the control room/space(s) are located at the designated return landing, the smoke detectors located therein shall be wired to activate the same normally closed contact as the smoke detector at the designated landing.
 - C. Requirements for intermittently illuminating the fire hat visual signal in the car operating panel, either 1) or 2) must be selected. 1) For a single unit, or group of elevators having control room/space(s) and one common hoistway, provide one additional normally closed contact representing the control room/space(s) and hoistway smoke detectors.
 - 2) If the group contains more than one hoistway, and hoistway smoke detectors are installed, provide one normally closed contact for each elevator. The contact is to represent the smoke detectors in the control room/space(s) or hoistway containing that particular elevator.
- 26. In Canada provide smoke detectors, located as required, with wiring from the sensing devices to the controller(s) A. For each group of elevators, provide a normally closed contact representing the smoke detector at the designated return landing and if provided, from the sensing device in the pit.
 - B. For each group of elevators, provide a normally closed contact representing all smoke detectors located in elevator lobbies, but not the smoke detector at the designated return landing (see above), and if provided, from the sensing device in the top of the hoistway.
 - C. For each group of elevators, provide a normally closed contact representing the smoke detector in the elevator machine space.
 - D. If the control space is located at the designated return landing, the smoke detectors located therein shall be wired to activate the same normally closed contact as the smoke detector at the designated landing. For each group of elevators, provide in addition to the above, a normally closed contact representing the sensing devices in the pit or at the top of the hoistway (For the Fire Hat in the Elevator).

THIS WORK AND THE INFORMATION IT CONTAINS ARE TH PROPERTY OF OTIS ELEVATOR COMPANY ("OTIS"). IT IS DELIVERED TO OTHERS ON THE EXPRESS CONDITION TH IT WILL BE USED ONLY FOR OR ON BEHALF OF OTIS; THAT NEITHER IT NOR THE INFORMATION IT CONTAINS WILL BE REPRODUCED OR DISCLOSED. IN WHOLE OR IN PART, WITHOUT THE PRIOR WRITTEN CONSENT OF OTIS: AND THAT ON DEMAND IT AND ANY COPIES WILL BE PROMPTLY RETURNED TO OTIS.

UNPUBLISHED WORK © OTIS ELEVATOR COMPANY 2004 ALL RIGHTS RESERVED.

		DTIS
		Gen2®
		SEISMIC 2
	DWG. NO.:	PWBO 1 OF 2
IE	BUILDING	
IAT	LOCATION	
	CONT. WITH	
	OWNER	
	ARCHT.	
	CONTRACT NO.	

Fire Prevention Prep/Work (cont)

27. In the United States, if sprinklers are installed in the hoistway(s), or machine space(s), a means to automatically disconnect the main line power supply of the affected elevator and any other power supply used to move the elevator upon or prior to the application of water is required (unless prohibited by local code). Smoke detectors shall not be used to activate sprinklers in hoistway(s), or machinery spaces or to disconnect the mainline power supply.

In addition, when the Automatic Recovery Operation (ARO) is specified, the means provided to automatically disconnect power to the elevator shall be equipped with an additional auxiliary contact that is positively opened when power is removed from the elevator system. This automatically controlled mainline disconnect must be provided with all associated wiring and conduit to the controller.

28. Provide an "ABC" fire extinguisher, minimum 10 lbs for machine space, and located convenient to the top landing elevator entrance.

29. Provide control room/space(s) and door to code compliant fire-resistive construction.

Electrical Requirements

- 30. 3 Phase Power MRL Provide a permanent three (3) phase electrical-feeder system with a separate equipment-grounding conductor terminating in the elevator controller located at the top landing or transformer located at the top of the hoistway. Permanent three (3) phase electrical-feeder to be terminated at the elevator controller or transformer at the start of installation of the top landing elevator entrance and the timing of connection to Otis controller shall be coordinated with the elevator installer. Feeder conductors and grounding conductor sized according to elevator current characteristics as shown on the Otis Confirmation of Power Supply form. Feeder conductors and grounding conductor must be copper. Provide a fused disconnect switch or circuit breaker capable of being locked in the open position, for each elevator per the National Electrical Code (ANSI/NFPA 70) or Canadian Electrical Code (C22.1) with feeder or branch wiring to elevator controller [NEC 620-51, 620-61(D), and 620-62] or [CEC Rule 38-013 (2) (a)] located at the point of power distribution in the building. The disconnecting means required by the National Electrical Code or Canadian Electrical Code CEC [Rule 38-051] shall be provided with all associated wiring and conduit to the elevator controller. Size of main contacts to suit elevator power characteristics. Fuses, if provided, are to be current limiting class J or equivalent. Circuit breakers, if provided, are to have current limiting characteristics equivalent to class J fuses. Fuses or circuit breakers are to be time delay to cover the full load up accelerating current. Accelerating current typically is the peak as indicated on the Otis Confirmation of Power Supply Form, and lasts for duration not to exceed 7 seconds. Feeder conductors and associated wiring to the controller to be sized to limit wiring voltage drop to 5% maximum when delivering elevator full load up accelerating current. The building power system used to operate the elevator(s) shall be capable of supplying non linear loads and be capable of absorbing the regenerated power listed on the Otis Confirmation of Power Supply form.
 - Single Phase Power MRL Provide a permanent single phase electrical-feeder system with a separate equipment-grounding conductor terminating to the transformer located at the top of the hoistway. Permanent single phase electrical-feeder to be terminated at the transformer at the start of installation of the top landing elevator entrance and the timing of connection to Otis controller shall be coordinated with the elevator installer. Feeder conductors and grounding conductor sized according to elevator current characteristics shown on the Otis Confirmation of Power Supply form. Feeder conductors and grounding conductor must be copper. Provide a fused disconnect switch or circuit breaker capable of being locked in the open position, for each elevator per the National Electrical Code (ANSI/NFPA 70) or Canadian Electrical Code (C22.1) with feeder or branch wiring to elevator controller [NEC 620-51, 620-61(D), and 620-62] or [CEC Rule 38-013 (2) (a)] located at the point of power distribution in the building. The disconnecting means required by the National Electrical Code or Canadian Electrical Code CEC [Rule 38-051] shall be provided with all associated wiring and conduit to the elevator controller. Size of main contacts to suit elevator power characteristics. Fuses, if provided, are to be current limiting class J or equivalent. Circuit breakers, if provided, are to have current limiting characteristics equivalent to class J Fuses, if provided, are to be current limiting class J or equivalent. Circuit breakers, if provided, are to have current limiting characteristics equivalent to class J fuses. Fuses or circuit breakers are to be time delay to cover the full load up accelerating current. Accelerating current typically is the peak as indicated on the Otis Confirmation of Power Supply Form, and lasts for duration not to exceed 7 seconds. Feeder conductors and associated wiring to the controller to be sized to limit wiring voltage drop to 5% maximum when delivering elevator full load up accelerating current. The building power system used to operate the elevator(s) shall be capable of supplying non linear loads and be capable of absorbing the regenerated power listed on the Otis Confirmation of Power Supply form.
 - MRL Configuration (controller located in hoistway entrance) with Transformer If a transformer is required and the controller is to be located in the hoistway entrance, the transformer must be located in an electrical room. The transformer must be mounted and wired as per the National Electrical Code (ANSI/NFPA 70) or Canadian Electrical Code (C22.1). Provide conduit and wiring to the transformer as well as between the transformer and the controller located in the hoistway entrance in accordance with the National Electrical Code (ANSI/NFPA 70) or Canadian Electrical Code (C22.1). Contact your local Otis representative for details.
- 3 Phase Power Control Room/Space Provide a permanent three (3) phase electrical-feeder system with a separate equipment-grounding conductor terminating in the control room/space(s), located per Otis layout. Feeder conductors and grounding conductor sized according to elevator current characteristics as shown on the Otis Confirmation of Power Supply form. Feeder conductors and grounding conductor must be copper. A fused disconnect switch or circuit breaker capable of being locked in the open position, for each elevator per the National Electrical Code (ANSI/NFPA 70) or Canadian Electrical Code (C22.1) with feeder or branch wiring to controller [NEC 620-51, 620-61(D), and 620-62] or [CEC Rule 38-013(2)(a)]. The disconnecting means required by the National Electrical Code or Canadian Electrical Code CEC [Rule 38-051] shall be provided with all associated wiring and conduit to the controller. Size of main contacts to suit elevator power characteristics. Fuses are to be current limiting class RK1 or equivalent. Circuit breakers are to have current limiting characteristics equivalent to class RK1 fuses. Fuses or circuit breakers are to be time delay to cover the full load up accelerating current. Accelerating current typically is the peak as indicated on the Otis Confirmation of Power Supply Form, and lasts for duration not to exceed 7 seconds. Feeder conductors and associated wiring to the controller to be sized to limit wiring voltage drop to 5% maximum when delivering elevator full load up accelerating current. The building power system used to operate the elevator(s) shall be capable of supplying non linear loads and be capable of absorbing the regenerated power listed on the Otis Confirmation of Power Supply form.
- Single Phase Power Control Room/Space Provide a permanent single phase electrical-feeder system with a separate equipment-grounding conductor terminating in the control room/space(s), located per Otis layout. Feeder conductors and grounding conductor sized according to elevator current characteristics as shown on the Otis Confirmation of Power Supply form. Feeder conductors and grounding conductor must be copper A fused disconnect switch or circuit breaker capable of being locked in the open position, for each elevator per the National Electrical Code (ANSI/NFPA 70) or Canadian Electrical Code (C22.1) with feeder or branch wiring to controller [NEC 620-51, 620-61(D), and 620-62] or [CEC Rule 38-013(2)(a)]. The disconnecting means required by the National Electrical Code or Canadian Electrical Code CEC [Rule 38-051] shall be provided with all associated wiring and conduit to the controller. Size of main contacts to suit elevator power characteristics. Fuses are to be current limiting class RK1 or equivalent. Circuit breakers are to have current limiting characteristics equivalent to class RK1 fuses. Fuses or circuit breakers are to be time delay to cover the full load up accelerating current. Accelerating current typically is the peak as indicated on the Otis Confirmation of Power Supply Form, and lasts for duration not to exceed 7 seconds. Feeder conductors and associated wiring to the controller to be sized to limit wiring voltage drop to 5% maximum when delivering elevator full load up accelerating current. The building power system used to operate the elevator(s) shall be capable of supplying non linear loads and be capable of absorbing the regenerated power listed on the Otis Confirmation of Power Supply form.
- 32. Provide a dedicated 125 volt, 15 ampere single-phase branch circuit with a fused disconnect switch or circuit breaker located at the point of power distribution in the building. The fused disconnect or circuit breaker shall be capable of being locked in the open position. This branch circuit supplies the car lights, car top receptacle, auxiliary lighting power source and ventilation on each car in compliance with the National Electrical Code [NEC620-53] or Canadian Electrical Code [CEC Rule 38-053]. Termination of this branch circuit shall be in the elevator controller located at the top landing and shall be connected at the same time as the permanent three (3) phase power referenced in the previous paragraph.
- 33. All 125 volt, 15 or 20 ampere single-phase receptacles installed in pits, machine spaces, control rooms/space(s) shall be of the ground-fault circuit-interrupter type (GFCI). A dedicated single-phase receptacle supplying a permanently installed pit sump pump shall not require GFCI protection.

- 34. Provide electric power for lights, tools, welding, hoisting, etc. during installation with sufficient power for starting, testing and adjusting the elevator Provide a 220 volt, 30 ampere single-phase 4 wire electrical supply for platform operation during construction, available at the start of elevator installation
- 35. Provide one (1) dedicated outside telephone line, per elevator, and terminated at the controller designated by the Otis construction superintendent. Reference the A17.1 code and the Otis power of confirmation letter for specific requirements.
- 36. In areas under the jurisdiction of AMSE A17.1-2004/CSA B44 or later where the elevator travel is greater than or equal to 60 feet /18 meters, provide two-way voice communications means that shall enable emergency personnel within the building to establish communications to each car individually without intervention by a person within the car. The communication means shall override communications to the outside of the building and once established shall only be terminated by emergency personnel outside the car. Refer to ASME A17.1/CSA B44 latest applicable code year, section 2.27.1.1.4 for exact requirements.
- 37. [Optional] For elevators having an intra building intercom, provide a separate 120 volt, 15 ampere, single phase power supply with fused SPST disconnect switch or circuit breaker, located as required for inter-communicating system power supply. Circuit to be arranged for feeding from the building emergency lighting supply if provided. Conduit and wiring for remotely located inter-communicating stations.
- 38. [Optional] For installations having emergency (standby) power, provide the standby power unit and means for starting it. The emergency (standby) power unit shall deliver to the elevator via disconnect switches in the building power distribution location or disconnect switches in the control room/space(s), sufficient power to operate one or more elevators at a time at full rated speed, and rated load.

An automatic power transfer switch for each power feeder to monitor both normal and emergency (standby) power conditions and to perform the transfer from one to the other. Switch to have two sets of normally closed dry contacts, one to be open when the switch is in the emergency (standby) power position; the other to open upon initiation of power transfer and to close when transfer is complete. Switch to have an inhibit function which will delay transfer to normal and/or emergency (standby) power by an adjustable period of 0 - 300 seconds. Switch shall have a phase monitor feature, which prohibits the transfer of power between "live" sources unless the sources are in phase with each other. If a shunt trip device is provided, an additional normally closed contact, with all associated wiring and conduit to the controller, is required from the emergency (standby) power source. The emergency (standby) power system provided shall comply with ANSI/NFPA 70 requirements 620.91. The table in section "ELEVATOR REGENERATIVE POWER REQUIREMENTS", on the Otis Confirmation of Power Supply form, contains the elevator system power regenerated under an overhauling load. The information contained in the form is to be used to determine regenerative power absorption capability for the emergency (standby) power distribution system

Note: The building Emergency (Standby Power) Generator system used to operate the elevator(s) shall be capable of supplying non-linear loads.

39. [Optional] Compass Dispatching System - a dedicated 125 volt 20 ampere single-phase power supply with SPST fused disconnect switch or circuit breaker. The fused disconnect or circuit breaker shall be capable of being locked in the open position and located upstream of the elevator equipment. This disconnect or circuit breaker must be in sight of the Compass Dispatching System equipment.

MRL Configuration (controller located in hoistway entrance) with Compass - If Compass is required and the controller is to be located in the hoistway entrance, an electrical room must be provided for the Compass Dispatching System equipment within sight of the entrance controller. Contact your local Otis representative for details.

[Optional] Elevator Management System (EMS) - a dedicated 125 volt 20 ampere single-phase power supply with SPST disconnect switch or circuit breaker with duplex outlets per Otis layout, and at any location where a Security Station and/or Fire Station is furnished. Circuits to be arranged for feeding from the building standby or emergency lighting supply if provided.

[OPTIONAL] FIRE SERVICE ACCESS ELEVATORS (FSAE) FSAE Hoistway & Pit Prep/Work

40. Provide all hoistways to meet structural code requirements for Fire Service Access Elevators as per IBC and NFPA FSAE Machine Room Prep/Work

41. Provide climate control and ventilation with monitoring equipment

FSAE Fire Protection Prep/Work

42. Comply with NFPA requirements relative to hoistway pressurization and sprinkler prohibition. FSAE Electrical Requirements

43. Provide hoistway lighting (1 Foot-candle, 11 lux, measured on top of car) for entire length of hoistway.

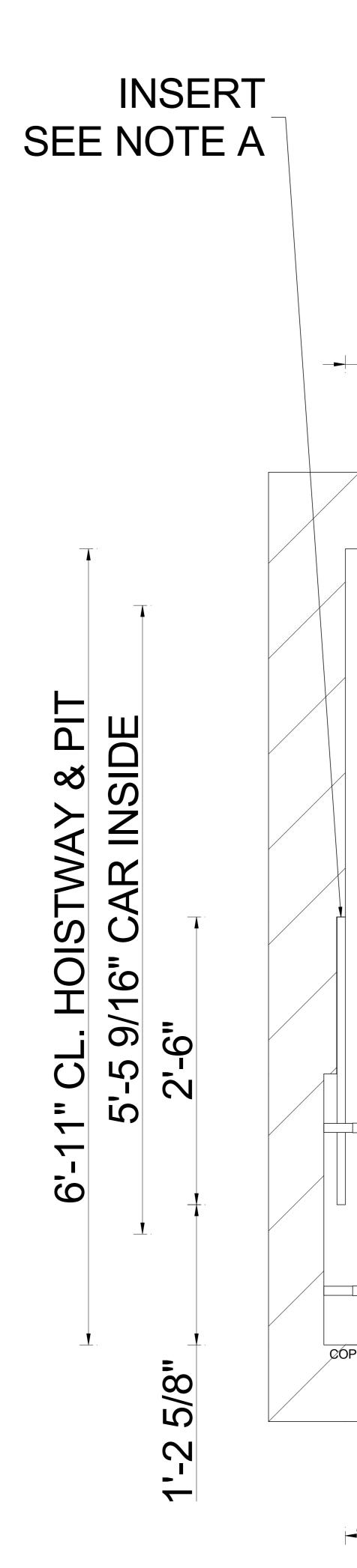
44. Emergency (standby) power must deliver power to elevator machine room, control room or space ventilation, cooling equipment, and the hoistway lighting.

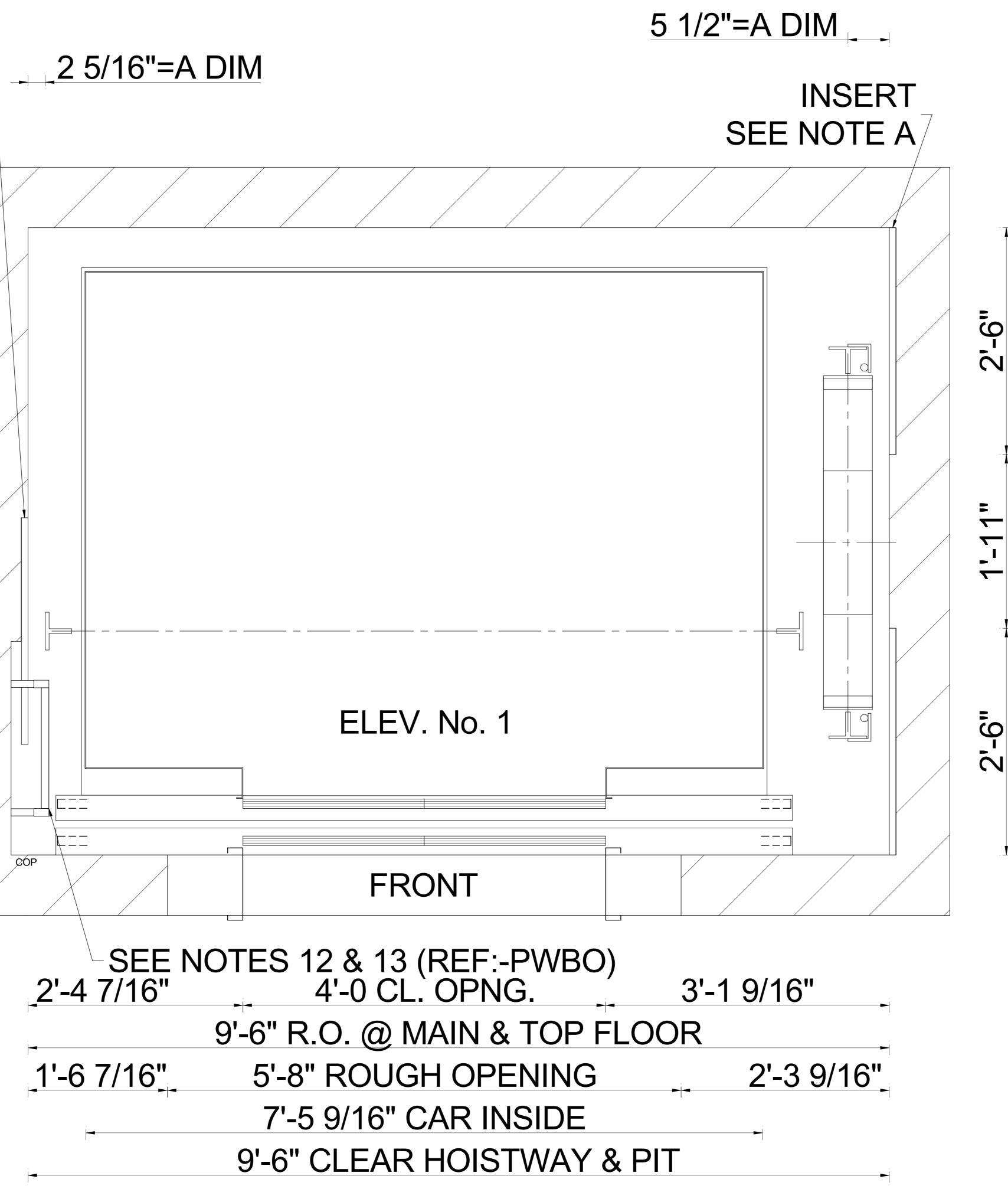
You agree to indemnify and save Otis harmless against any and all liability and costs arising out of you

THIS WORK AND THE INFORMATION IT C PROPERTY OF OTIS ELEVATOR COMPAN DELIVERED TO OTHERS ON THE EXPRE IT WILL BE USED ONLY FOR OR ON BEH THAT NEITHER IT NOR THE INFORMATIC WILL BE REPRODUCED OR DISCLOSED. PART, WITHOUT THE PRIOR WRITTEN CO AND THAT ON DEMAND IT AND ANY COP PROMPTLY RETURNED TO OTIS.

UNPUBLISHED WORK (C) OTIS ELEVATOR ALL RIGHTS RESERVED.

		Gen2®	
		SEISMIC 2	
	DWG. NO.:	PWBO 2 OF 2	
ONTAINS ARE THE NY ("OTIS"). IT IS	BUILDING		
SS CONDITION THAT	LOCATION		
N IT CONTAINS IN WHOLE OR IN	CONT. WITH		
ONSENT OF OTIS: PIES WILL BE	OWNER		
	ARCHT.		
R COMPANY 2004	CONTRACT NO.		
	1	Ε>	(PRESS DRAW: AA







SEE NOTE 5, PWBO SHEET

DIRECTIONAL ARROW INDICATES NORTH

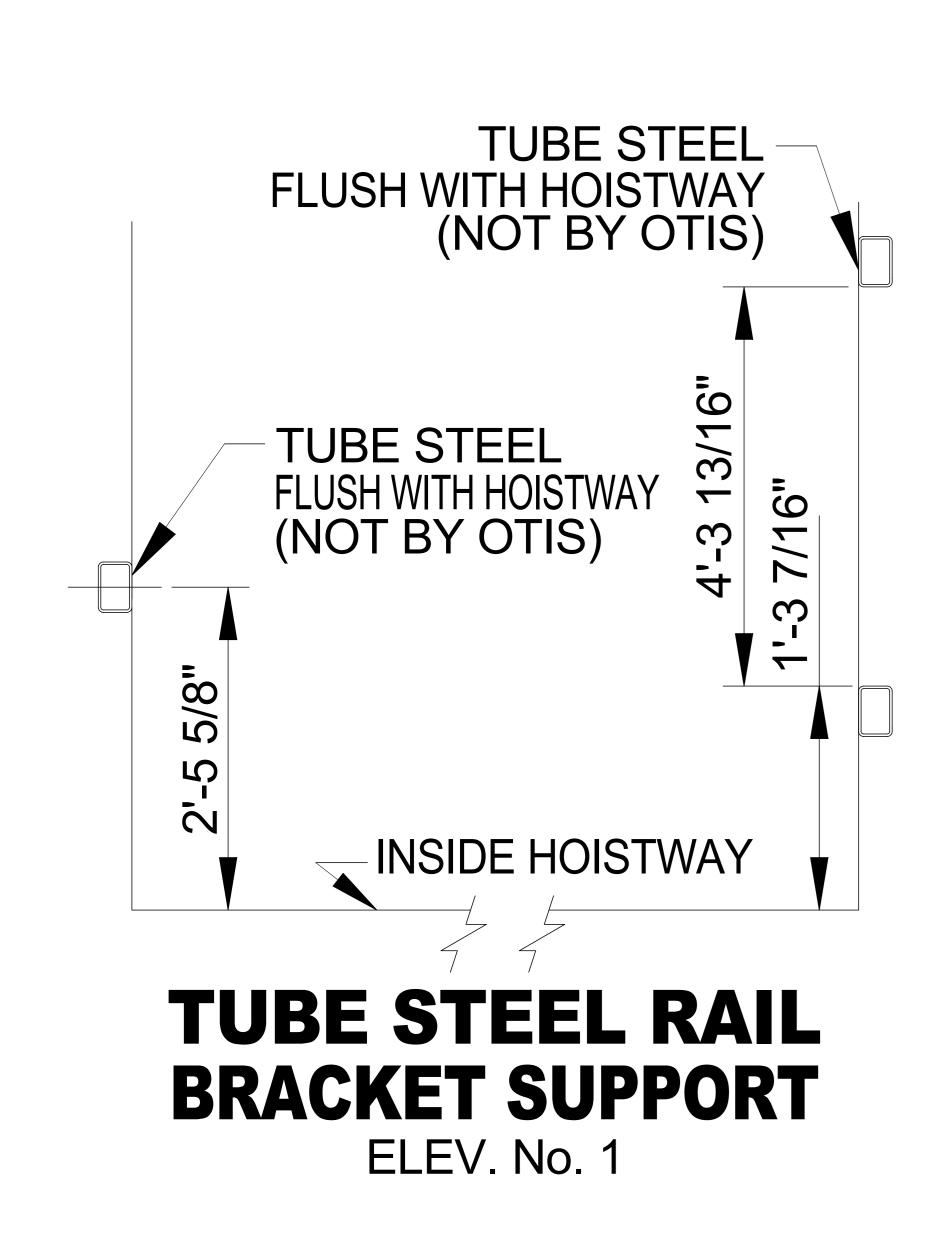
	BASED ON HOISTWAY SIZES SHOWN OF THESE VARY, CONSULT THE
SALES REPRESENTATIVE.	
T I 110	APPROVAL
	ARRANGEMENT AND ENTARY NOTES APPROVED
SIGNED:	DATE:
ELEVATOR COMPANY ("OTIS"). IT I CONDITION THAT IT WILL BE USED NEITHER IT NOR THE INFORMATIC DISCLOSED. IN WHOLE OR IN PAR AND THAT ON DEMAND IT AND AN OTIS.	ON IT CONTAINS ARE THE PROPERTY OF OTIS IS DELIVERED TO OTHERS ON THE EXPRESS O ONLY FOR OR ON BEHALF OF OTIS; THAT ON IT CONTAINS WILL BE REPRODUCED OR RT, WITHOUT THE WRITTEN CONSENT OF OTIS; IY COPIES WILL BE PROMPTLY RETURNED TO
UNPUBLISHED WORK © OTIS E ALL RIGHTS RESERVED.	LEVATOR COMPANY 2004
	Sen2 [®]
	SEISMIC 2
Ş	SEISMIC 2
S DWG. NO.:	SEISMIC 2
DWG. NO.: BUILDING	SEISMIC 2
DWG. NO.: BUILDING LOCATION	SEISMIC 2
DWG. NO.: BUILDING LOCATION CONT. WITH	SEISMIC 2

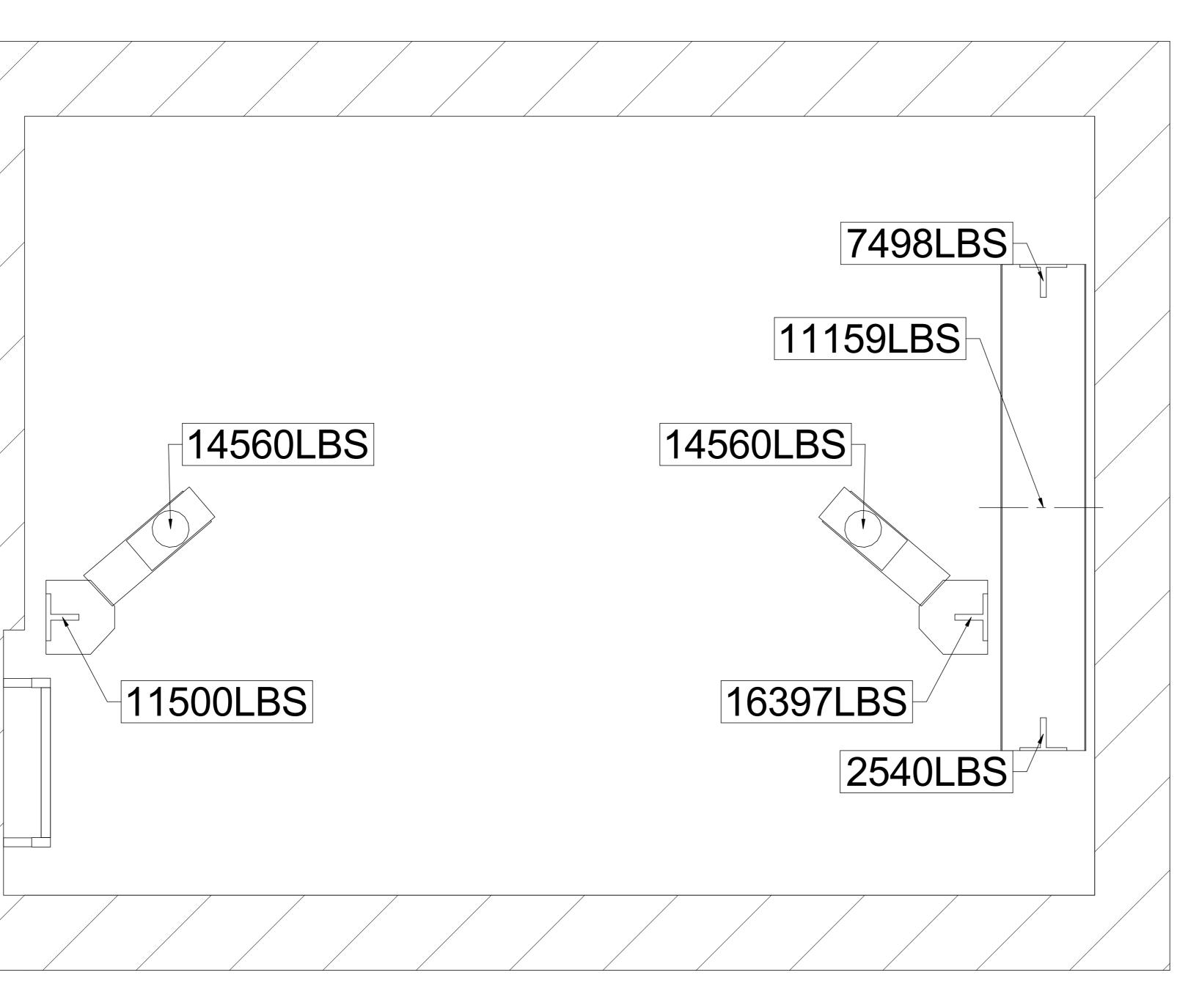
SPEED 150 F.P.M.

ELEV. No.

DUTY 4000#

SERVICE TYPE PASSENGER





PIT PLAN VIEW

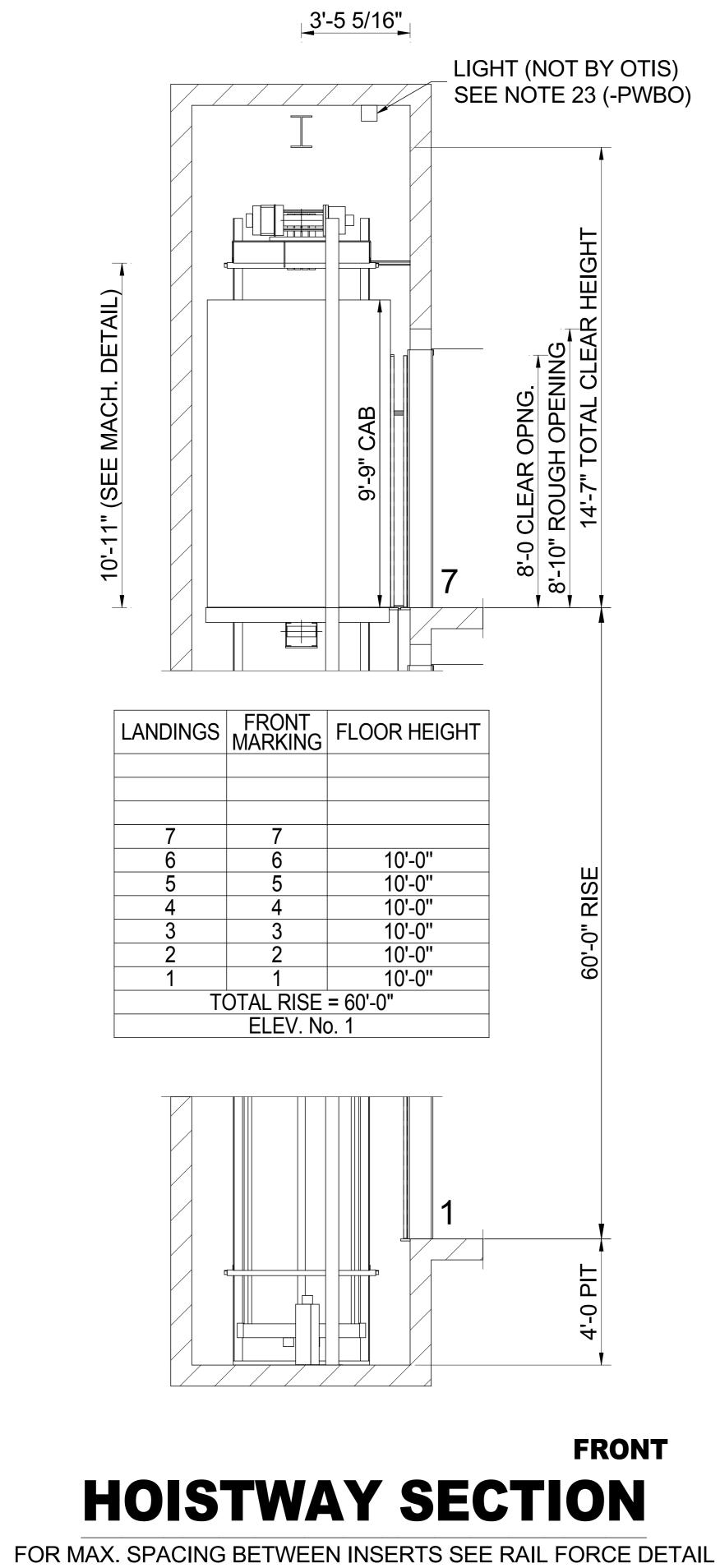
FORCE SHOWN INCLUDES DOUBLING FOR IMPACT



Image: constrained by the second se
ELEV. No. DUTY SPEED SERVICE TYPE 1 4000# 150 F.P.M. PASSENGER
APPROVAL THIS ARRANGEMENT AND SUPPLEMENTARY NOTES APPROVED
SIGNED: DATE:
THIS WORK AND THE INFORMATION IT CONTAINS ARE THE PROPERTY OF OTIS ELEVATOR COMPANY ("OTIS"). IT IS DELIVERED TO OTHERS ON THE EXPRESS CONDITION THAT IT WILL BE USED ONLY FOR OR ON BEHALF OF OTIS; THAT NEITHER IT NOR THE INFORMATION IT CONTAINS WILL BE REPRODUCED OR DISCLOSED. IN WHOLE OR IN PART, WITHOUT THE WRITTEN CONSENT OF OTIS; AND THAT ON DEMAND IT AND ANY COPIES WILL BE PROMPTLY RETURNED TO OTIS. UNPUBLISHED WORK © OTIS ELEVATOR COMPANY 2004
ALL RIGHTS RESERVED.
Gen2 [®] SEISMIC 2
DWG. NO.: PIT VIEW
BUILDING
CONT. WITH
OWNER
CONTRACT NO.

EXPRESS DRAW: AA

	TABLE 1 ELEV. No. 1
(CAR RAIL BRACKET INSERT TABLE
4'-9"	9th BRACKET LOC. FROM 8th BRKT.
6'-2"	8th BRACKET LOC. FROM 7th BRKT.
10'-0"	7th BRACKET LOC. FROM 6th BRKT.
10'-0"	6th BRACKET LOC. FROM 5th BRKT.
10'-0"	5th BRACKET LOC. FROM 4th BRKT.
10'-0"	4th BRACKET LOC. FROM 3rd BRKT.
10'-0"	3rd BRACKET LOC. FROM 2nd BRKT.
11'-0"	2nd BRACKET LOC. FROM 1st BRKT. (REQ'D)
3'-0"	1st BRACKET LOC. FROM PIT FLOOR

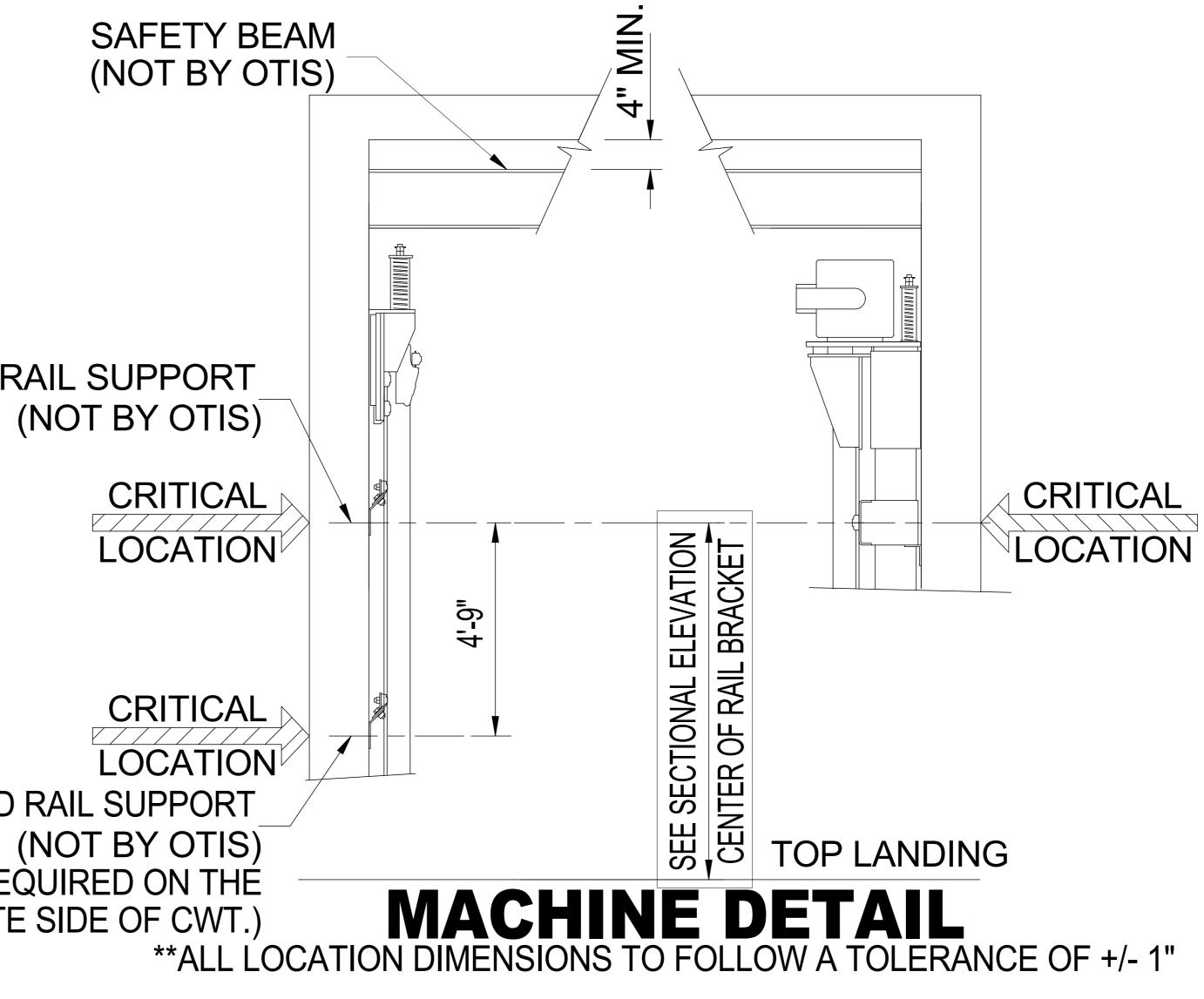


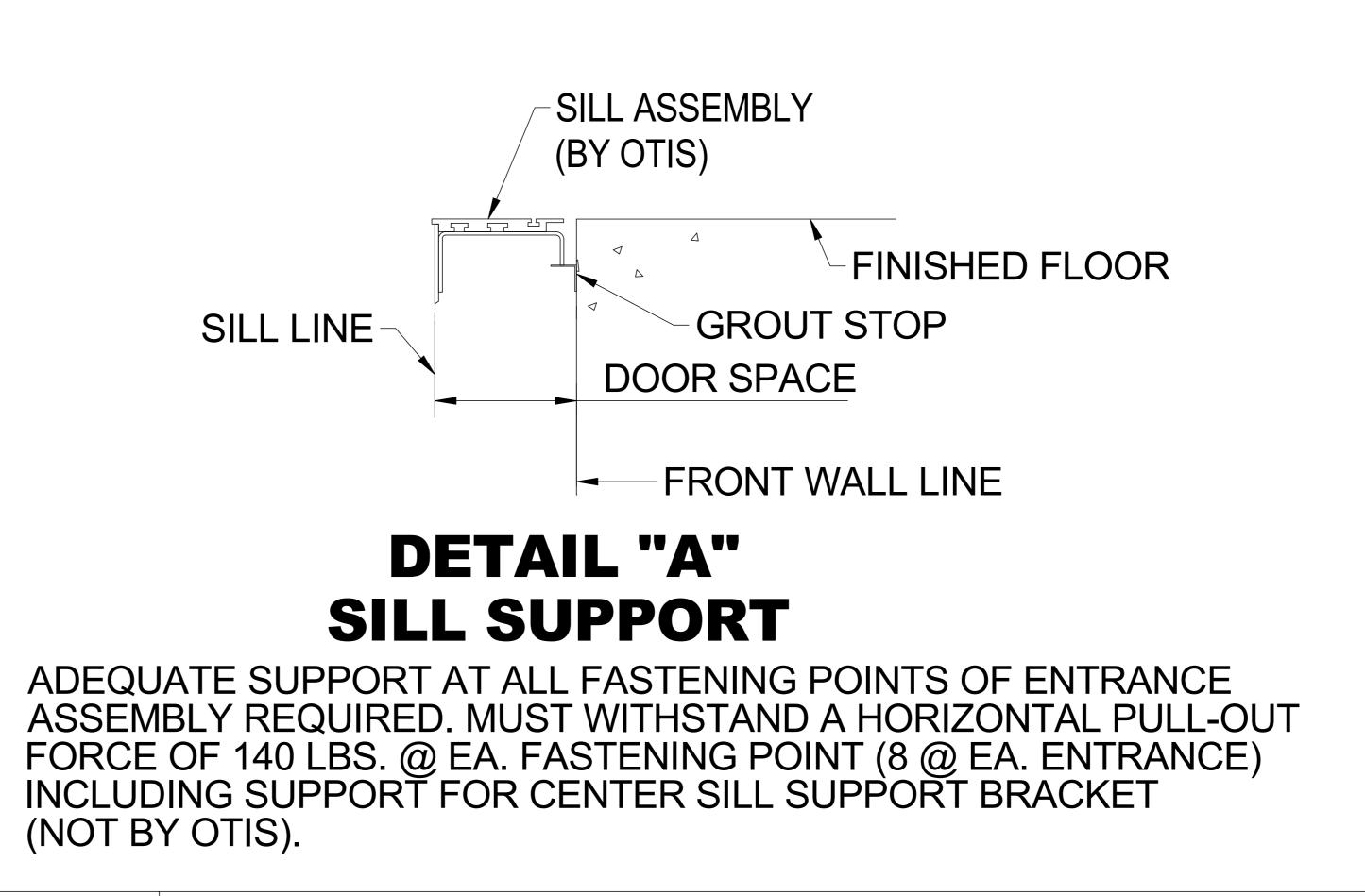
ELEV. No. 1

TOP RAIL SUPPORT

SECOND RAIL SUPPORT

(ONLY REQUIRED ON THÉ **OPPOSITE SIDE OF CWT.**)





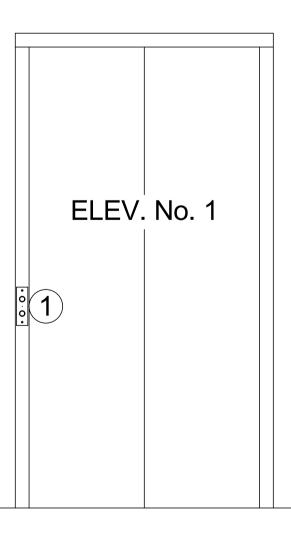
RAIL FORCE & BRACKET SPACING DETAIL					
	R2 VY R1 VX R2 VY R2 VY				
	SEE	NOTES 6 & 7			
		R1	567 lbs		
		R2	86 lbs		
		1078 lbs			
CAR	VY		539 lbs		
	MAXIMUM BRACKET SPACING		11'-0"		
	RAIL SIZE		1		
	R1		314 lbs		
	R2		23 lbs		
	VX		1132 lbs		
CWT	VY		566 lbs		
	MAXIMUM BRACKET SPACING		11'-0"		
	RAIL SIZE		1-1/2		
DEH		R1	840 lbs		
(DEAD	END HITCH)	R2	2630 lbs		
IN MULTICAR GROUPS THE VALUES ABOVE ARE THE LARGEST VALUES FOR THE ENTIRE GROUP					

FIRST INTERMEDIATE RAIL SUPPORT LOCATION TO BE LOCATED 14' 0" FROM PIT FLOOR. ALL OTHER INTERMEDIATE SUPPORTS CANNOT EXCEED THE MAXIMUM BRACKET SPACING IN THE RAIL FORCE & BRACKET SPACING DETAIL

CAR R1 = SAFETY APPLICATION CWT R1 = LOADING OR RUNNING R2 = LOADING OR RUNNING **REQUIREMENTS FOR RAIL BRACKET** SUPPORT (NOT BY OTIS): DEFLECTION NOT TO EXCÉED 1/8" BASED ON HORIZONTAL RAIL FORCES.

ELEV. No.	DUTY	SPEED	SERVICE TYPE
1	4000#	150 F.P.M.	PASSENGER

<u>APPROVAL</u> THIS ARRANGEMENT AND SUPPLEMENTARY NOTES APPROVED				
SIGNED:	DATE:			
ELEVATOR COMPANY ("OTIS CONDITION THAT IT WILL BI NEITHER IT NOR THE INFOR DISCLOSED. IN WHOLE OR	RMATION IT CONTAINS ARE THE PROPERTY OF OTIS S"). IT IS DELIVERED TO OTHERS ON THE EXPRESS E USED ONLY FOR OR ON BEHALF OF OTIS; THAT RMATION IT CONTAINS WILL BE REPRODUCED OR IN PART, WITHOUT THE WRITTEN CONSENT OF OTIS; AND ANY COPIES WILL BE PROMPTLY RETURNED TO			
UNPUBLISHED WORK © (ALL RIGHTS RESERVED.	OTIS ELEVATOR COMPANY 2004			
	OTIS			
Gen2®				
SEISMIC 2				
DWG. NO.:	ELEVATION 1			
BUILDING				
LOCATION				
CONT. WITH				
OWNER				
ARCHT.				
CONTRACT NO.				



HALL FIXTURE DETAIL

1 HALL BUTTONS @ ALL FLOORS



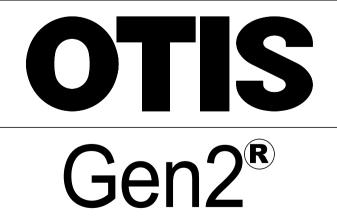


DATE:

SIGNED:

THIS WORK AND THE INFORMATION IT CONTAINS ARE THE PROPERTY OF OTIS ELEVATOR COMPANY ("OTIS"). IT IS DELIVERED TO OTHERS ON THE EXPRESS CONDITION THAT IT WILL BE USED ONLY FOR OR ON BEHALF OF OTIS; THAT NEITHER IT NOR THE INFORMATION IT CONTAINS WILL BE REPRODUCED OR DISCLOSED. IN WHOLE OR IN PART, WITHOUT THE WRITTEN CONSENT OF OTIS AND THAT ON DEMAND IT AND ANY COPIES WILL BE PROMPTLY RETURNED TO OTIS.

UNPUBLISHED WORK © OTIS ELEVATOR COMPANY 2004 ALL RIGHTS RESERVED.





SEISMIC 2 HALL FIXTURES

DWG. NO.:

BUILDING

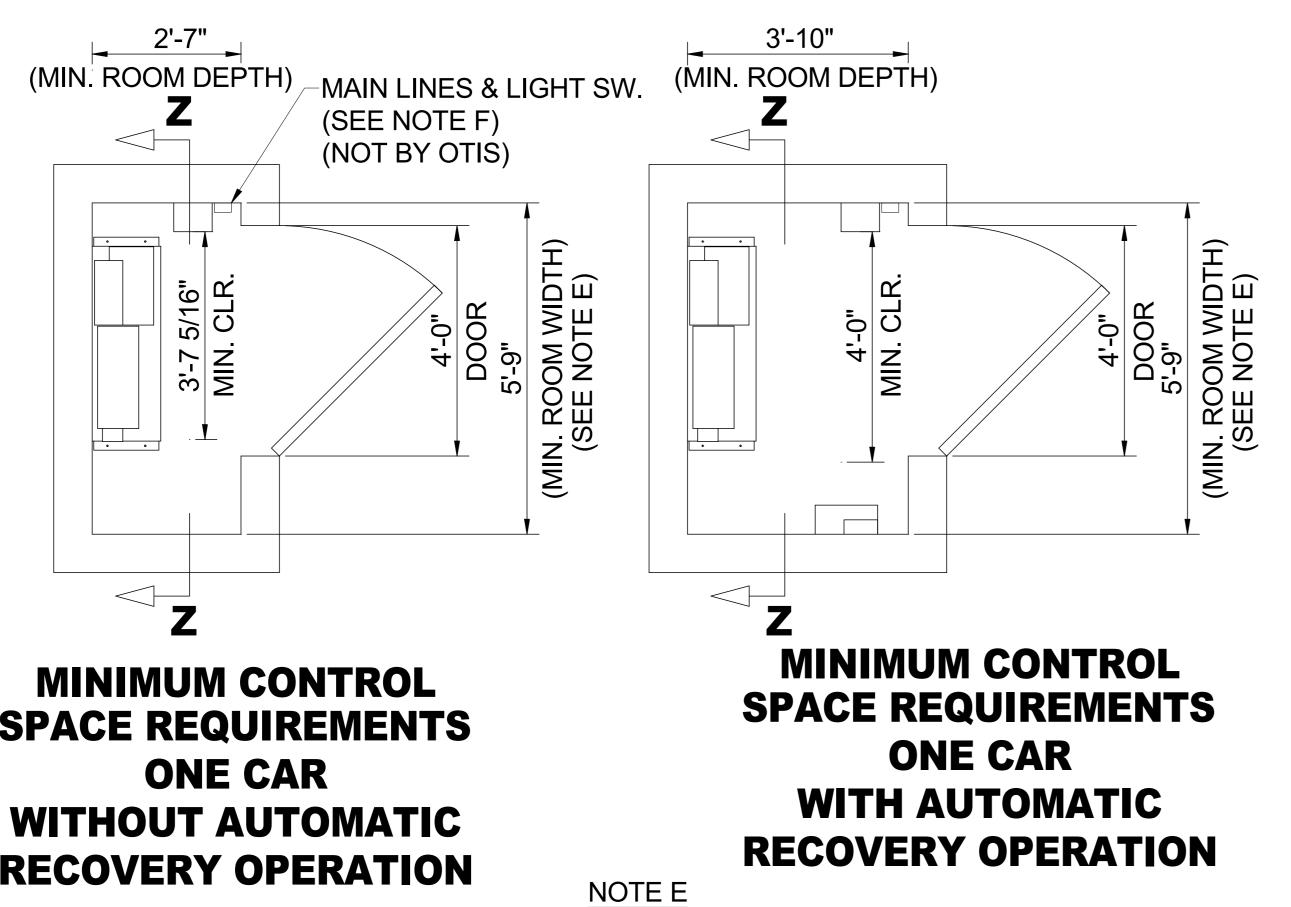
LOCATION

CONT. WITH

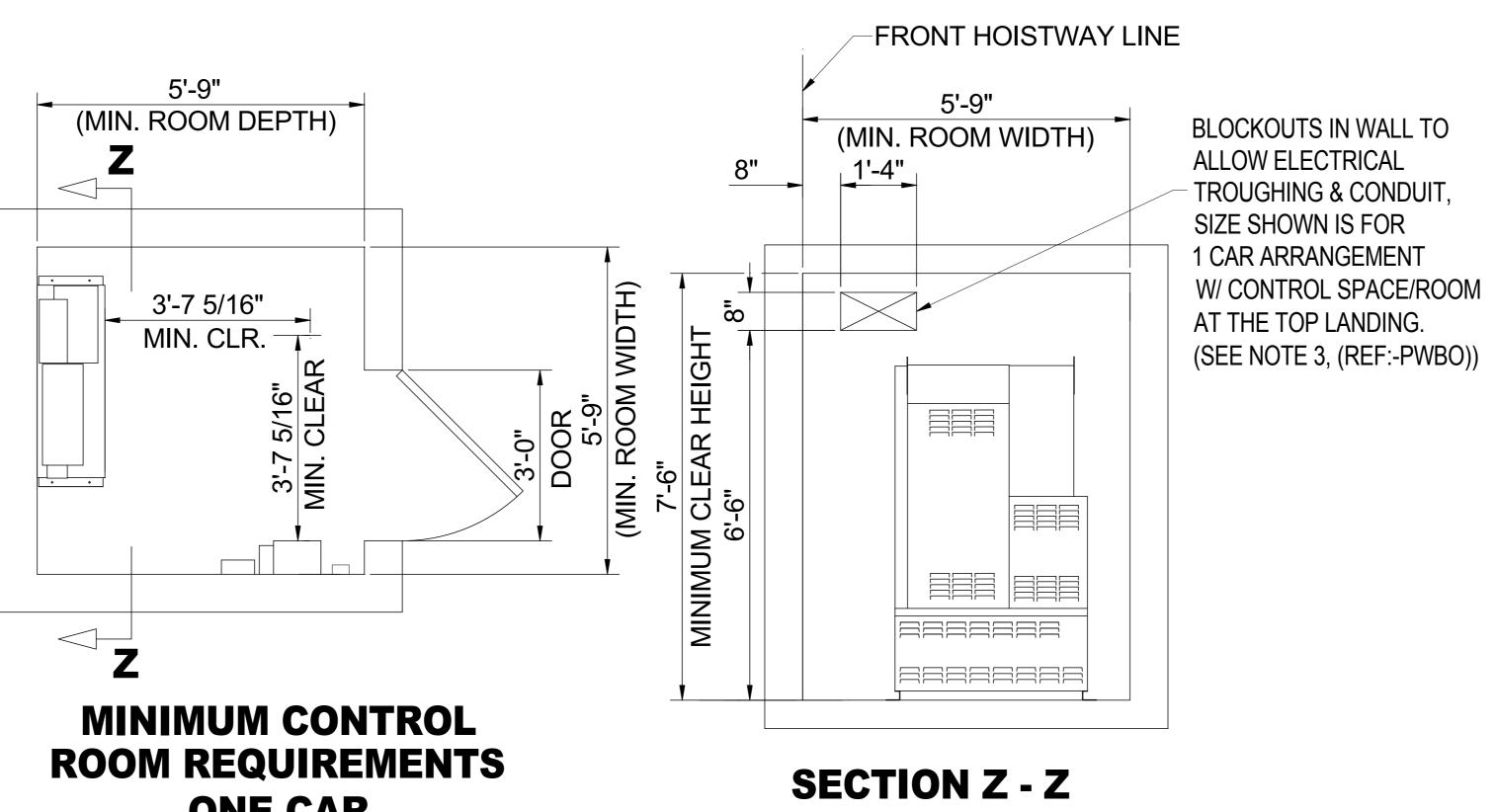
OWNER ARCHT.

CONTRACT NO.

EXPRESS DRAW: AA



SPACE REQUIREMENTS WITHOUT AUTOMATIC **RECOVERY OPERATION**

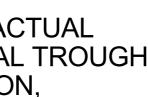


ONE CAR NOTE F

CHECK LOCAL BUILDING CODES FOR HALLWAY CLEARANCES WHEN CONTROL DOORS ARE OPENED FOR SERVICE OF THE ELEVATOR.

THE FRONT SURFACE OF THE MAINLINE DISCONNECT MUST PROJECT INTO CLEAR OPENING OF CONTROL SPACE. IF THE SIZE OF THE CONTROL SPACE IS INCREASED, A MEANS OF LOCATING THE MAINLINE DISCONNECT INTO THE CLEAR OPENING MUST BE PROVIDED.

NOTES: WEIGHT OF CONTROLLER = 350 lbs.



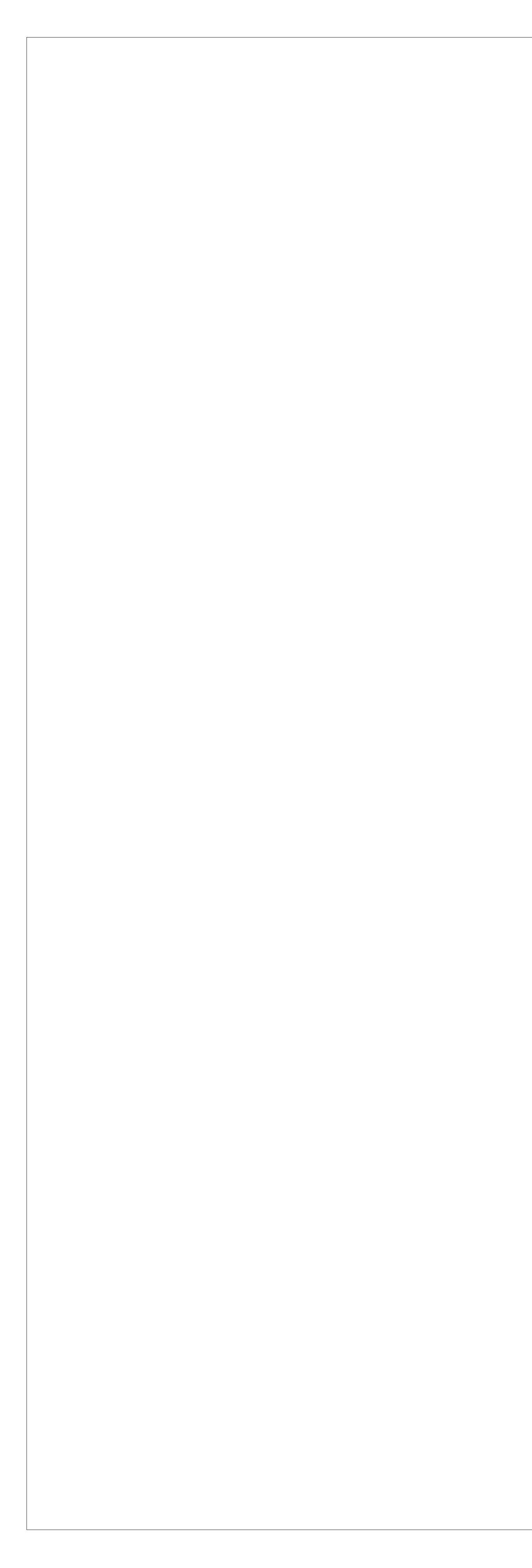
SIGNED:	DATE:			
THIS WORK AND THE INFORMATION IT CONTAINS ARE THE PROPERTY OF OTIS ELEVATOR COMPANY ("OTIS"). IT IS DELIVERED TO OTHERS ON THE EXPRESS CONDITION THAT IT WILL BE USED ONLY FOR OR ON BEHALF OF OTIS; THAT NEITHER IT NOR THE INFORMATION IT CONTAINS WILL BE REPRODUCED OR DISCLOSED. IN WHOLE OR IN PART, WITHOUT THE WRITTEN CONSENT OF OTIS; AND THAT ON DEMAND IT AND ANY COPIES WILL BE PROMPTLY RETURNED TO OTIS.				
UNPUBLISHED WORK © ALL RIGHTS RESERVED.	OTIS ELEVATOR COMPANY 2004			
	OTIS			
Gen2®				
	SEISMIC 2			
DWG. NO.:	CONTROL ROOM			
BUILDING				
LOCATION				
CONT. WITH				
OWNER				
ARCHT.				
CONTRACT NO.				
	EXPRESS DRAW: AA			

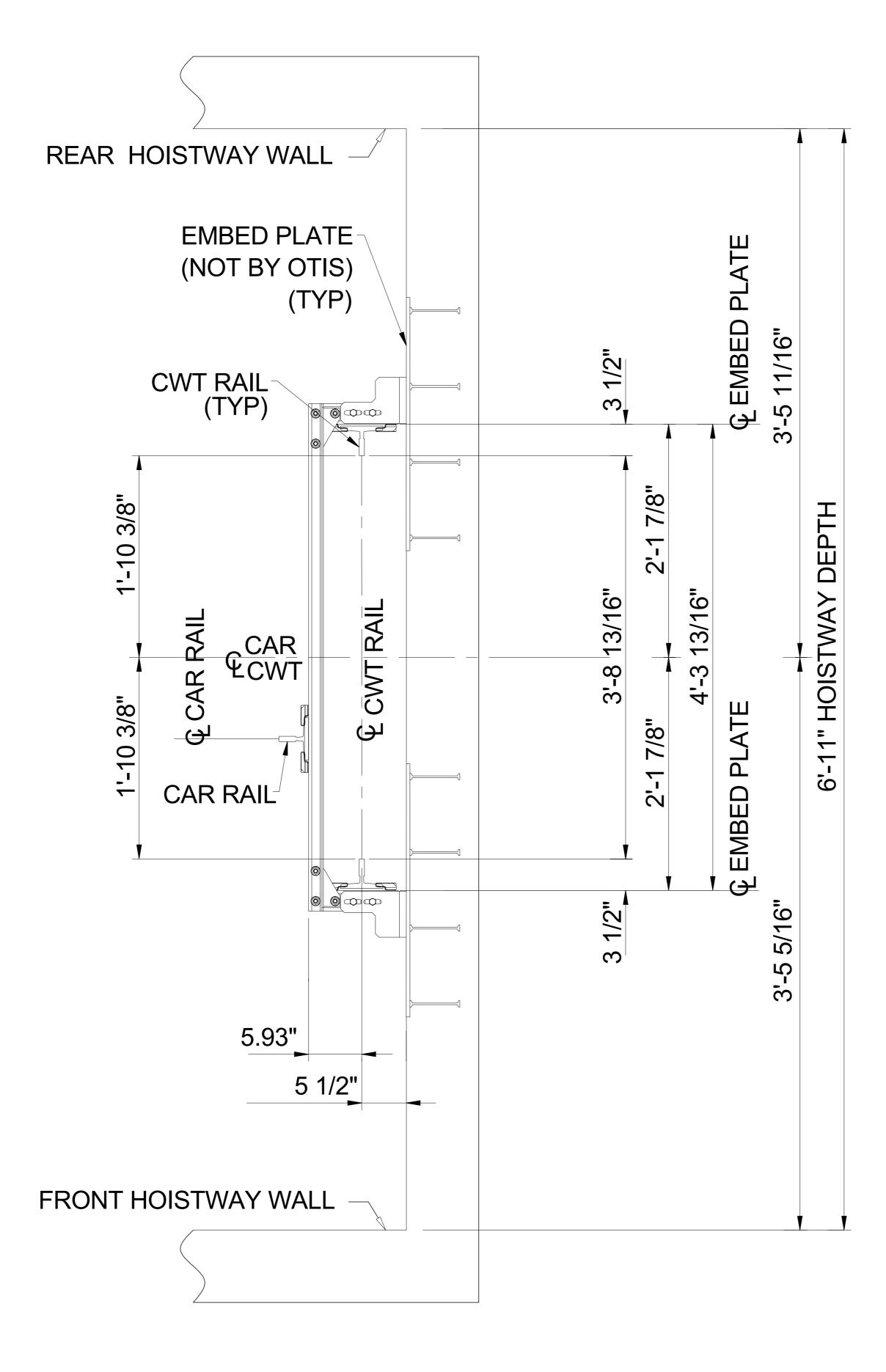
APPROVAL

THIS ARRANGEMENT AND

SIGNED:

SUPPLEMENTARY NOTES APPROVED

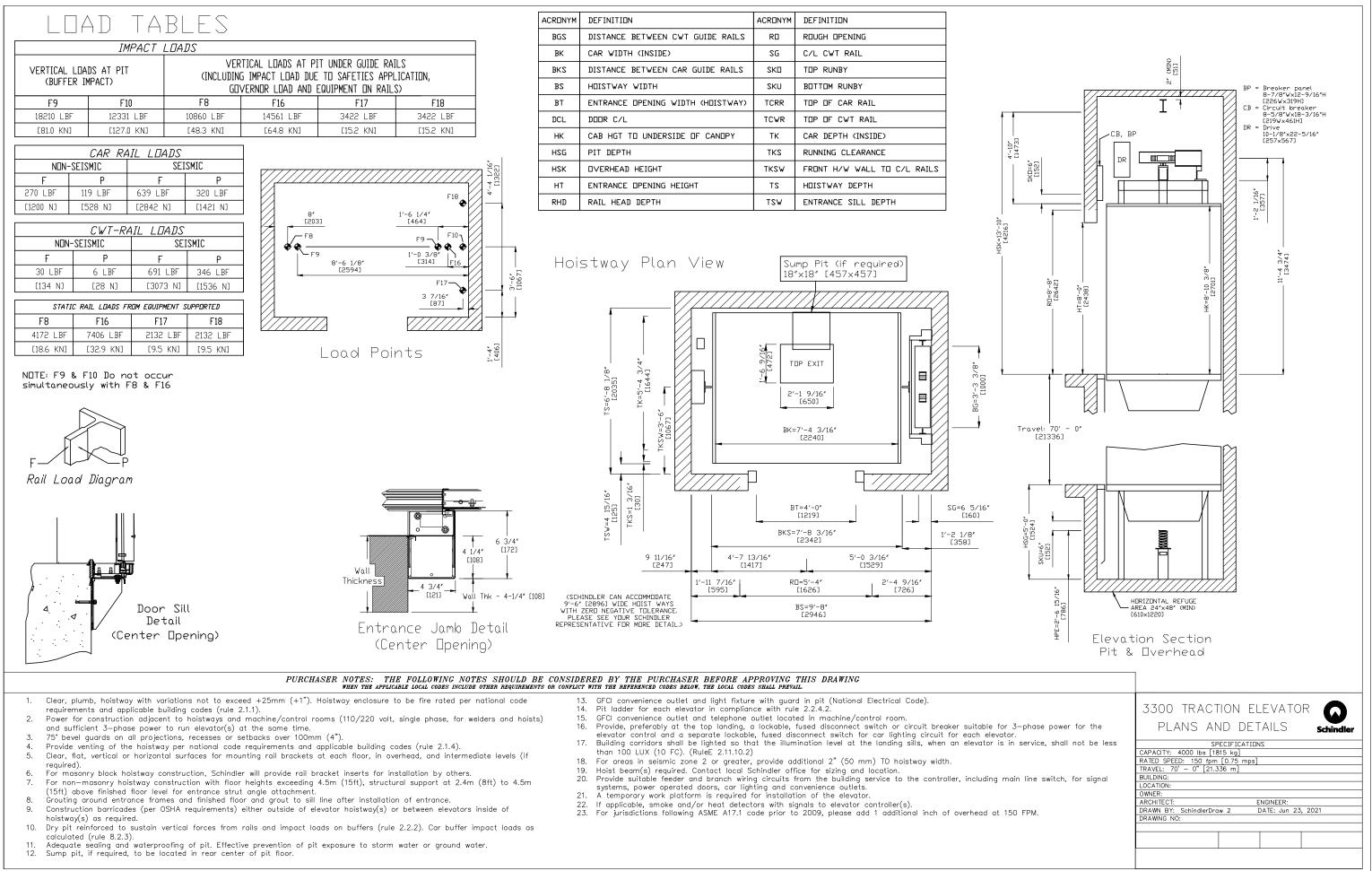


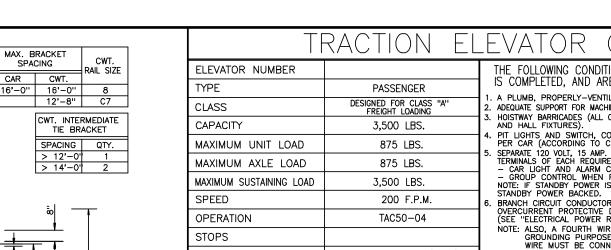


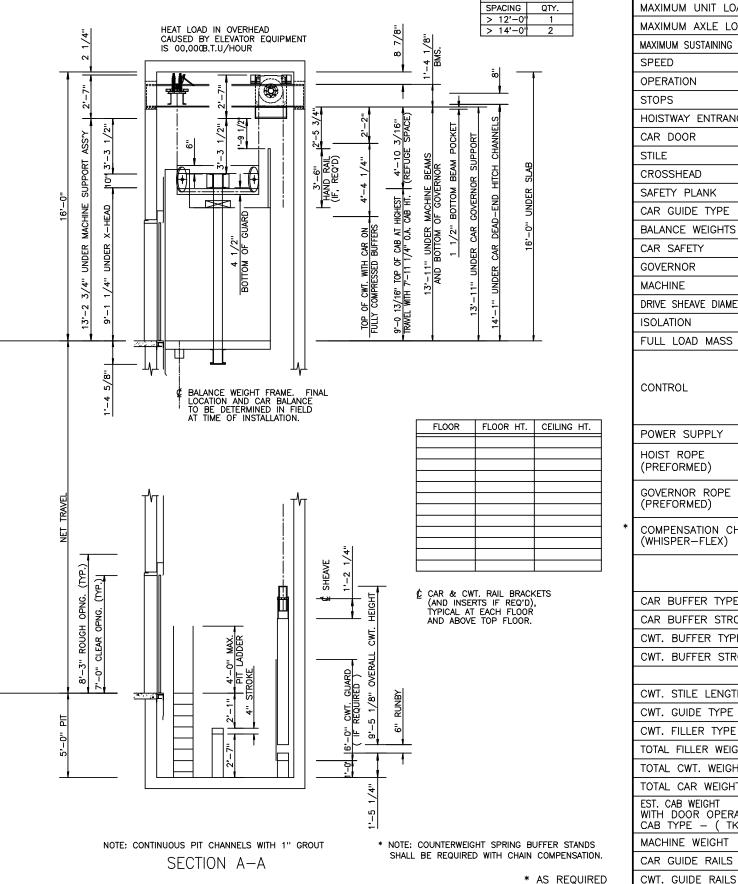
EMBED LOCATION DETAIL **COUNTERWEIGHT BRACKET SUPPORTS**

(NOT TO SCALE) ELEV. No. 1

	SED ON HOISTWAY SIZES SHOWN THESE VARY, CONSULT THE
THIS A	APPROVAL RRANGEMENT AND NTARY NOTES APPROVED
SIGNED:	DATE:
ELEVATOR COMPANY ("OTIS"). IT IS I CONDITION THAT IT WILL BE USED C NEITHER IT NOR THE INFORMATION DISCLOSED. IN WHOLE OR IN PART,	IT CONTAINS ARE THE PROPERTY OF OTIS DELIVERED TO OTHERS ON THE EXPRESS ONLY FOR OR ON BEHALF OF OTIS; THAT IT CONTAINS WILL BE REPRODUCED OR WITHOUT THE WRITTEN CONSENT OF OTIS; COPIES WILL BE PROMPTLY RETURNED TO
UNPUBLISHED WORK © OTIS ELE ALL RIGHTS RESERVED.	VATOR COMPANY 2004
G	ien2 [®]
S	EISMIC 2
DWG. NO.:	MBED DETAIL
BUILDING	
LOCATION	
CONT. WITH	
OWNER	
ARCHT.	
CONTRACT NO.	







POCKET SIZE W H D

ELEVATOR

FLOORS

HALL FIXTURE

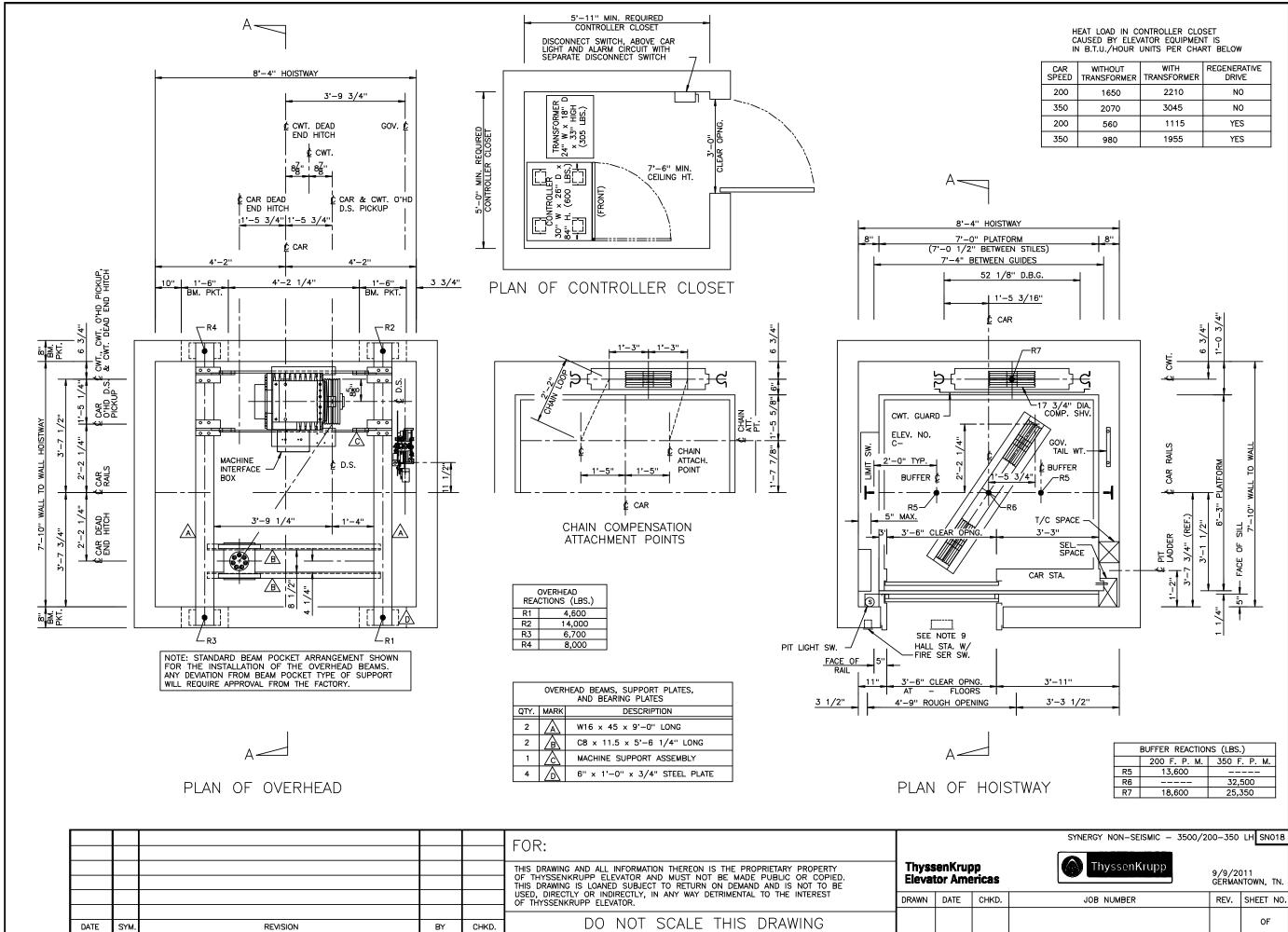
CL. ABOVE FIN. FLOOR

16'-0"

	3,500 LBS.		HALL FIX	TURES).	
LOAD	875 LBS.	4. PIT L PER	JGHTS AN CAR (ACC	ID SWITCH, CORDING T	CONVE 0 CODE
E LOAD	875 LBS.	5. SEPA TERM	RATE 120 INALS OF	VOLT, 15 A EACH REQ AND ALAR NTROL WHE IDBY POWEI ER BACKEI	MP. BRA UIRED (
NING LOAD	3,500 LBS.	- C/ - GF	R LIGHT	AND ALAR	M CIRC
	200 F.P.M.	STAN	DBY POW	ER BACKEI	7 IS SU
	TAC50-04	6. BRAN OVER	CH CIRCU	JIT CONDUC PROTECTIV ICAL POWE	VE DEV
	14030-04	NOTE	: ALSO, /	A FOURTH	WIRE C
			WIRE M	A FOURTH DING PURP IUST BE CI	ONNECT
RANCES	CENTER OPENING (PWD.)			NDBY POW	ER IS
	CENTER OPENING (PWD.)		LATION (CONTROLL MIN. 32° F CONCRETE	, MAX.
	F6.5 x 6.05	NOTE	MUST F	PROVIDE AD	EQUATE
	F10 x 13.2	NOTE	: MACHIN	NE BEAM D	ESIGN (
<	F10 x 9.45			WITH LINTELS	
′PE	ROLLER	TO WA	LL INTERFA	CE TO MAINT/	ain labe
GHTS	150 LBS.	NOTE	: MUST	BE LOCAT	ed as
	FLEX CLAMP	12. COND	UIT AND	ORS (AS RE WIRING FRO IRE REQUIF	M HOIS
	CAR	SAFE	IY, OR F	IRE REQUI	REMENT
	TORIN W/ BRAKE			RAIL F	ORCES
DIAMETER	17.32 INCH		F1	LOA	DING
	SPECIAL		F2		
ASS	16.050 LBS.]		
		МА	KIMUM VEF	RTICAL FOR	CE ON
				SAFETY AF	
	VVVF	NOTE A	ALL RI	EACTIONS IN	ICLUDE
		NOTE B		ENKRUPP E VAY OR MA	
Y	V. 3 PH. 60 CYC.	NOTE C	: ELEVAT SHOWN	IOR DESIGN	
	(7) 10 mm – DRAKO 250–		UNLES	S OTHERWIS	
	8 x 19 WARRINGTON - IWRC				
)PE	(1)3/8 IN.8 x 19				
	IRON				
N CHAIN	(2) WF20			<u>, </u>	
EX)	(2 LBS./FT.) PER CHAIN	DATE	SY	<u>M.</u>	
		D) (NO I	S
			E	ELEVATOR	CONT
TYPE	(4) SPRING				
STROKE	4 INCH				
TYPE	(2) SPRING	FOR:			
STROKE	5 1/2 INCH				
		ADDRE	SS:		
ENGTH	7'-6''	CITY:			
YPE	ROLLER	ARCHIT			
TYPE	(53) NO. 121458			TRACTOR:	
WEIGHT	5,270 LBS.			NG AND AL PP ELEVATO	
EIGHT	()	LOA	NED SUBJ	ECT TO RE	TURN O
EIGHT	· · · ·				
T	4,005 LBS.				
PERATOR	1,575 LBS.	Thys	senKri	upp	
(TKS)		Eleva	itor An	nericas	
SHT	1,630 LBS.	DRAWN	DATE	CHKD.	
AILS	15 LBS./FT.				

□ 8 LBS./FT. □ C12(Ω)

CONTRA	NCT E)AT/	4		
IONS MUST BE MET E NOT INCLUDED IN			CT:	_	
LATED HOISTWAY (ACCOR INE BEAMS, GUIDE RAIL BRA CUTTING AND PATCHING TO	CKETS, AND BUFFE	RS (FOR RE	ACTIONS S		
DIVENIENCE OUTLETS OF CODE). NOTE: MUST BE BRANCH CIRCUITS, ALONG ED CONTROLLER (AS LOCA CONTROLLER (AS LOCA CONTROLLER (AS LOCA CONTROLLER (AS LOCA EQUIRED S SUPPLIED TO THE ELEV.	THE GFCI TYPE CLEAR OF ALL E WITH TELEPHONE C TED ON PLAN VIE S OF THE GFCI	PER NEC, LEVATOR E RCUIT WHEN W) FOR THI TYPE PER	PIT LADD QUIPMEN I REQUIRE E FOLLOW NEC	ier T. D, to 'ing:	
R SIZING, MATERIALS, AND DEVICE) TO COMPLY WITH REQUIREMENTS''). RE OF SAME SIZE AS THI	REE PHASE WIRES	S IS REQU	RED FOR		
ES TO MINIMIZE ELECTRIC IECTED TO THE BUILDING IS REQUIRED, SEE "ELE	S ELECTRICAL SY	ERENCE. T STEMS GR	HE GROU DUND.	NDIN(3
ROOM ÅREA (ÅCCORDING MAX. 104° F. WITH NON- DOR SLAB SURFACE. ATE DOOR SIZE TO ALLOW UIPMENT IS IN PLACE. SN (PER ASME A17.1). WAY AND MAINTAINED BE TE: MUST BE PROVIDED AFTER HIGHER THAN THE FRAME OPE LABELED CONSTRUCTION. FILL I L (PER FIXTURE DRAWIN AS DIRECTED BY ELEVATI RED).	TO CODE), WITH CONDENSING HUN INSTALLATION OF T. 32° F. AND 12 ENTRAKE FRAMES AR ING; FOLLOW INSTAL N AROUND FRAMES A GS) FOR HALL FI OR CONTRACTOR.	ADEQUATE IIDITY OF EQUIPMENT 22° F. E SET – OR LATION PROCI FTER THE FR XTURES.	LIGHT, H 10—90%), — OR LE LEAVE A RC DURES FOF AMES ARE	EAT, AVE DUGH R FRAM SET.	E
CES	F ₁			F ₂	
IG OR UNLOADING	450 LBS	j.	435	LBS	ò.
ON EACH GUIDE CATION.	CAR 8.910 LE	IS.			
JDE ALLOWANCE FOR IMPA	ст.				
ator to be notified of Ne room design prior to			EQUIPMEN	п.	
ID FABRICATION BASED ON PROVAL WILL BE CONSTRU NOTIFIED.					
				BY	CHKD.
SCALE T	THIS D		NIN	G	
ONTRACTOR		CONTRAC	T NUME	BER	
	I				
INFORMATION THEREON AND MUST NOT BE MADE N ON DEMAND AND IS NO AL TO THE INTEREST OF TI	PUBLIC OR COPI T TO BE USED DI	ED. THIS RECTLY OR	DRAWING	IS	
	RGY NON-SEISM		0/200 (c/o	SN015
	yssenKrupp			/201 ANTO	1 WN, TN.
	IUMBER		REV.		ET NO.
			1		OF



CAR SPEED	WITHOUT TRANSFORMER	WITH TRANSFORMER	REGENERATIVE DRIVE
200	1650	2210	NO
350	2070	3045	NO
200	560	1115	YES
350	980	1955	YES

JOB NUMBER REV. SHEET NO.	ThyssenKrupp	9/9/20 GERMAN	011 NTOWN, TN.
OF	JOB NUMBER	REV.	SHEET NO.
			OF