

VT01	GENERAL ELEVATOR INFORMATION
VT02	PLANS AND HOISTWAY SECTION - TOWER A - ELEVATOR KITCHEN SERVICE
VT03	PLANS AND HOISTWAY SECTIONS - TOWER A - ELEVATORS TENANT 1 & 2
VT04	PLANS AND HOISTWAY SECTION - TOWER B - ELEVATOR LOBBY SHUTTLE
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VT06	PLANS AND HOISTWAY SECTION - TOWER C - ELEVATOR TENANT 5

1	INDEX OF DRAWINGS
VT01	SCALE: N/A

ELEVATOR LOBBY SHUTTLE	2500# @ 150 FPM	MRL
ELEVATORS TENANT 1 - TENANT 5	4000# @ 200 FPM	MRL
ELEVATOR KITCHEN SERVICE	4000# @ 150 FPM	MRL

2	SUMMARY OF ELEVATORS
VT01	SCALE: N/A

AFF	ABOVE FINISH FLOOR	ETS	EMERGENCY TERMINAL	MG	MOTOR-GENERAL	UBC	UNIFORM BUILDING
A.P.	ACCESS PANEL	EQ	SLOWDOWN	MTD	MOUNTED	VERT.	CODE
ALT.	AIR CONDITIONING	EQ	EQUAL	NEC	NATIONAL ELECTRICAL	V.I.F.	VERIFY IN FIELD
ALT.	ALTERNATE	ESCL	ESCALATOR	NFPA	NATIONAL FIRE	V.	VOLT
AC	ALTERNATING CURRENT	(E)	EXISTING		PROTECTION	W.	WIDE
ASME	AMERICAN SOCIETY OF MECHANICAL ENGINEERS	* F	FAHRENHEIT	(N)	NEW	W/	WITH
		FPM	FEET PER MINUTE	NOM.	NOMINAL	WP	WORKPOINT
AMP	APPROXIMATE	F.V.	FIELD VERIFY	N/A	NOT APPLICABLE		
ARCH.	ARCHITECTURAL	F.F.	FINISH FLOOR	NTS	NOT TO SCALE		
AUX	AUXILIARY	FT	FOOT (FEET)	NO.	NUMBER		
BSMT	BASEMENT	FLUOR.	FLUORESCENT	O.C.	ON CENTER		
BOT.	BOTTOM	F/O	FRONT OPENING	OPNG	OPENING		
BTM	BRITISH THERMAL UNITS PER HOUR	FUT.	FUTURE	O.A.	OVERALL		
BW	BEAM	G	GRAVITY	OPP.	OPPOSITE		
BOCA	BUILDING OFFICIALS AND CODE	GFCI	GROUND FAULT CIRCUIT INTERRUPTER	OVHD	OVERHEAD		
		GOV.	GOVERNOR	PL	PLATE		
CLG	CEILING	GA.	GAUGE	PLTFM	PLATFORM		
°C	CELSIUS	GYP. BD.	GYPSUM BOARD	PSI	POUNDS PER SQUARE INCH		
CL	CENTERLINE	HT	HEIGHT	PRELIM.	PRELIMINARY		
CM	CENTIMETERS	HZ	HERTZ	RAD.	RADIUS		
COL	COLUMN	H	HIGH	R/O	REAR OPENING		
CLR	CLEAR	HSTWY	HOISTWAY	REF.	REFERENCE		
CONC.	CONCRETE	HORIZ.	HORIZONTAL	REQ.	REQUIRED		
CMU	CONCRETE MASONRY UNITS	HR	HOUR	REV.	REVISION		
CONT.	CONTINUOUS	HP	HORSEPOWER	RM	ROOM		
CONTR.	CONTRACTOR	HYDR.	HYDRAULIC	R.O.	ROUGH OPENING		
COORD	COORDINATE	IBC	INTERNATIONAL BUILDING CODE	SCCR	SHORT CIRCUIT CURRENT RATING		
CNTRL	CONTROLLER	IN.	INCH (INCHES)	SEC.	SECONDARY		
CWT	COUNTERWEIGHT	IGBT	INSULATED GATE BIPOLAR TRANSISTOR	SECT.	SECTION		
CYL	CYLINDER	LC	LINEAR	SHIT	SHEET		
DGH	DEAD END HITCH	J/S	JOULES PER SECOND	SCR	SILICON CONTROLLED RECTIFIER		
D	DEGREE	KCAL	KILOCALORIE	SIM.	SIMILAR		
DTL	DETAIL	KG	KILOGRAMS	SPEC.	SPECIFICATION		
Ø	DIAMETER	KN	KILONEWTONS	SF	SQUARE FEET		
DIM.	DIMENSION	KVA	KILOVOLT-AMPERE	SH	SQUARE METERS		
DC	DIRECT CURRENT	KW	KILOWATTS	STD	STANDARD		
DISC.	DISCONNECT	K	KIPS	SBC	STANDARD BUILDING CODE		
DIS	DISTANCE BETWEEN GUIDE RAILS	LT	LIGHT	STL	STEEL		
DN	DOWN	MPS	METERS PER SECOND	STRUCT.	STRUCTURAL		
DWG	DRAWING	MACH.	MACHINE	SW.	SWITCH		
EA	EACH	MRL	MACHINE ROOM LESS	TBD	TO BE DETERMINED		
ELEC.	ELECTRICAL	MEZZ.	MEZZANINE	T.O.	TOP OF		
EL.	FLOOR ELEVATION	M	METER	(TYP.)	TYPICAL		
ELEV.	ELEVATOR	MM	MILLIMETERS	UNO	UNLESS NOTED OTHERWISE		
		MIN	MINIMUM				
		MISC.	MISCELLANEOUS				

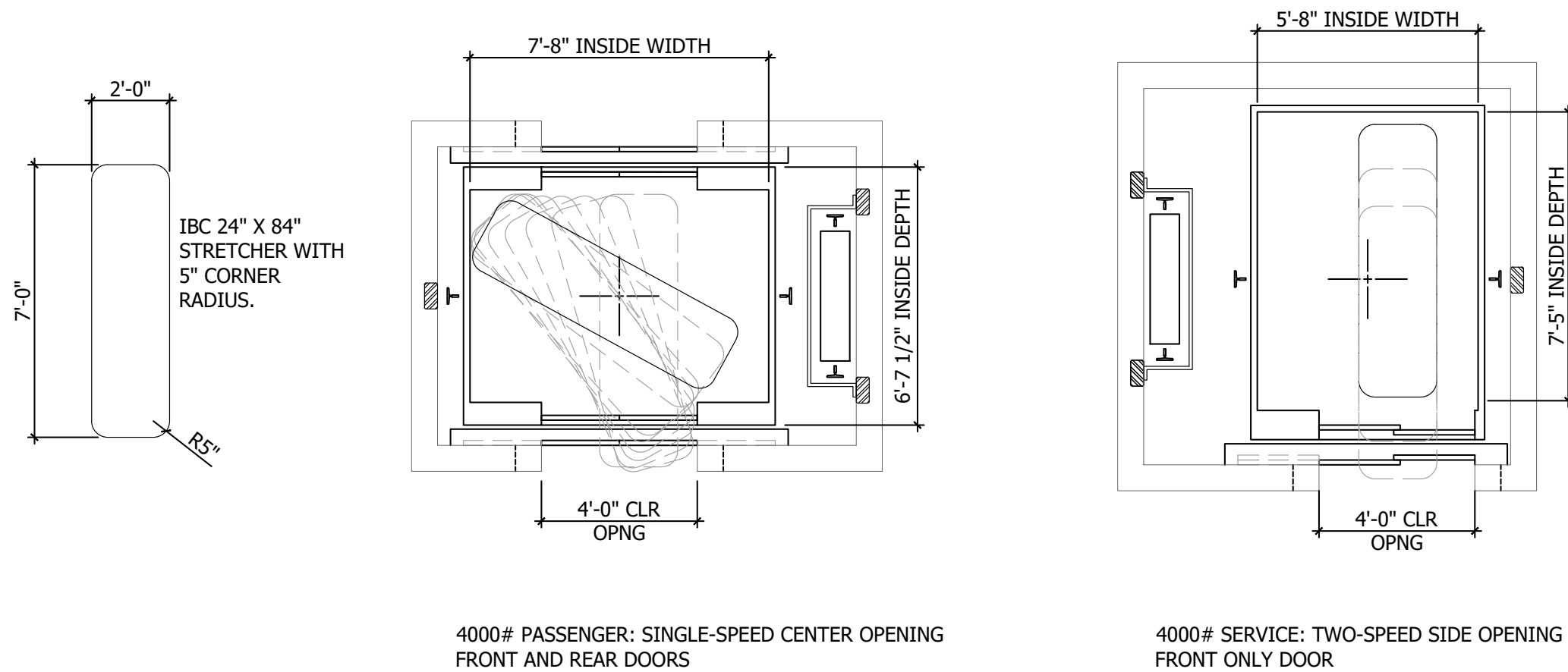
3	ABBREVIATIONS
VT01	SCALE: N/A

POWER FEEDER REQUIREMENTS (MAIN POWER SUPPLY: 480-3-60)							
ELEVATOR NUMBER	CAPACITY (POUNDS)	SPEED (FPM)	TRACTION MOTOR HP	FULL LOAD AMPS		HEAT RELEASE	
				RUNNING	ACCELERATING	CONTROLLER SPACE (BTUH PER CAR)	MACHINE SPACE (BTUH PER CAR)
LOBBY SHUTTLE	2500	150	20	25	67	4570	2080
TENANT 1 - 5	4000	200	17	22	36	7920	2570
KITCHEN SERVICE	4000	150	17	22	36	7920	2570
NOTES:							
1. ELECTRICAL POWER AND CURRENT ARE BASED ON THREE (3) PHASE A.C. POWER SUPPLY.							
2. MAIN POWER TO BE PROVIDED AT EACH CONTROLLER THROUGH DISCONNECTS, MEETING NEC REQUIREMENTS.							
3. MAIN POWER SUPPLY FEEDERS TO LIMIT VOLTAGE DROP TO LESS THAN 5%. MAX SCOR FOR ALL DISCONNECT FEEDER DESIGNS BASED ON 5KA RATING (NEC SECTION 409.022 AND UL506A SUPPLEMENT SB).							
4. USE COPPER CONDUCTORS ONLY.							
5. FEEDER DEMAND FACTORS (NEC SECTION 430.026 AND 620.014) =							
(2) CARS = 95%, (3) CARS = 90%, (4) CARS = 85%, (5) CARS = 82%, (6) CARS = 79%, (7) CARS = 77%, (8) CARS = 75%, (9) CARS = 73%, (10) CARS = 72%							
6. THE AMBIENT CONTROL / MACHINE SPACE TEMPERATURE TO BE MIN. 13° C (55° F), MAX 32° C (90° F).							
7. RELATIVE HUMIDITY MAX 80% NON-CONDENSING.							
8. THE SELECTION OF MAIN POWER SUPPLY DISCONNECTING MEANS OVER CURRENT PROTECTION TO BE SIZED IN ACCORDANCE WITH THE NATIONAL ELECTRIC CODE, SECTIONS 620.051 AND 430.052.							
9. PROVIDE LOCAL TELEPHONE SERVICE LINE TO EACH CAR CONTROLLER (IF APPLICABLE).							
10. PROVIDE GFCI CONVENIENCE OUTLETS IN PIT, MACHINE ROOM, AND IN MACHINERY SPACES. IN PIT, PROVIDE ONE NON-GFCI OUTLET FOR SUMP PUMP AND/OR OIL RETURN PUMP.							
11. PROVIDE HOIST MACHINE WITH VOLTAGE TO MATCH SUPPLY VOLTAGE INDICATED. UNLESS NOTED OTHERWISE.							
12. MAIN POWER SUPPLY FEEDERS TO LIMIT VOLTAGE DROP TO LESS THAN 5%. MAX SCOR FOR ALL DISCONNECT FEEDER DESIGNS BASED ON 5KA RATING (NEC SECTION 409.022 AND UL506A SUPPLEMENT SB.)							
ADDITIONAL POWER AND DISCONNECT REQUIREMENTS IN MACHINE ROOM							
AUXILIARY SYSTEM	SUPPLY TERMINAL	SUPPLY VOLTAGE	CIRCUIT CAPACITY				
CAR LIGHT AND FAN WITH LOCKABLE DISCONNECT	EACH CONTROLLER	120-1-60	(15 AMP PER CAR)				
INTERCOM SYSTEM (IF APPLICABLE)	AT AMPLIFIER	120-1-60	1800 WATTS (15 AMP MIN)				
SEISMIC SENSOR DEVICE	AT EACH DISCONNECT	115-1-60	20 AMP PER DISCONNECT				

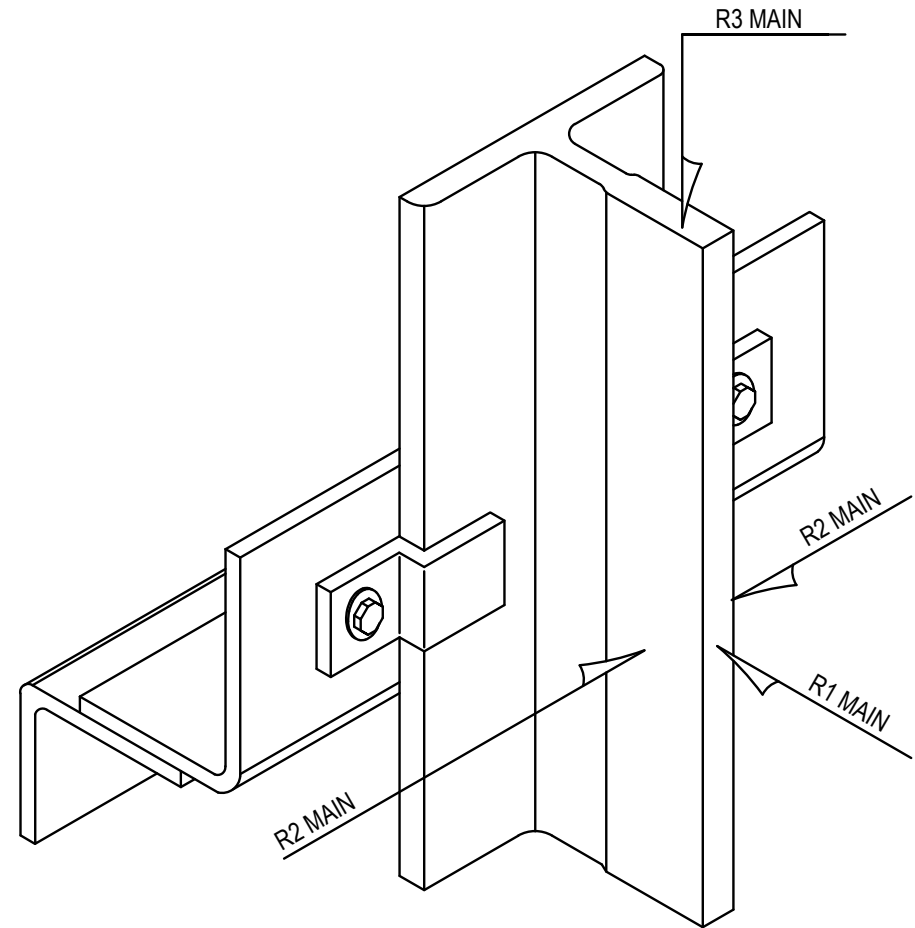
4	ELEVATOR ELECTRICAL AND MECHANICAL REQUIREMENTS
VT01	SCALE: N/A

- THESE DRAWINGS FOR GENERAL INFORMATION ONLY. REQUIREMENTS OF INDIVIDUAL VENDORS MAY VARY.
- THESE DRAWINGS TO BE DISTRIBUTED TO APPROPRIATE CONSULTING AND ENGINEERING FIRMS, INCLUDING ARCHITECT, STRUCTURAL, ELECTRICAL AND MECHANICAL ENGINEERS.
- FIELD VERIFY ALL EXISTING DIMENSIONS.
- ROUGH OPENING DIMENSIONS FOR ELEVATOR ENTRANCES APPLY ONLY IN THE CASE OF MASONRY OR CONCRETE CONSTRUCTION.
- VERTICAL STRUCTURAL SUPPORT FOR RAIL BRACKETING IS PROVIDED BY HOISTWAY WALLS IN THE CASE OF REINFORCED CONCRETE HOISTWAY CONSTRUCTION.

5	GENERAL NOTES
VT01	SCALE: NTS



6	STRETCHER ACCESS DIAGRAMS
VT01	SCALE: N/A



RAIL FORCES MAXIMUM ON EACH GUIDE RAIL (FORCES ARE IN KIPS)					
	ELEVATOR NUMBER	LOBBY SHUTTLE	KITCHEN SERVICE	TENANT 1-5	OCCURRING ON
NORMAL FORCES	CAR R1	0.7	1.4	1.3	CAR NORMAL FACE OF MAIN RAIL
	CAR R2	0.4	0.9	0.7	CAR NORMAL SIDE OF MAIN RAIL - LOADING OR RUNNING
	CAR R3	27.4	31.2	32.2	FORCE TRANSMITTED TO PIT STRUCTURE AT CAR SAFETY APPLICATION*
	CWT R3	23.4	N/A	N/A	FORCE TRANSMITTED TO PIT STRUCTURE AT CWT SAFETY APPLICATION*
DIS SEISMIC FORCES	CAR R1	0.7	1.1	1.1	CAR SEISMIC *** FACE OF MAIN RAIL
	CAR R2	0.4	0.5	0.5	CAR SEISMIC *** SIDE OF MAIN RAIL - LOADING OR RUNNING
	CWT R1	0.8	1.1	1.1	CWT SEISMIC *** FACE OF CWT RAIL
	CWT R2	0.4	0.6	0.6	CWT SEISMIC *** SIDE OF CWT RAIL

FOR SOME MACHINE ROOM-LESS (MRL) MODELS, PROVIDE ADDITIONAL LATERAL SUPPORTS ABOVE THE TOP TERMINAL FOR LARGE GUIDE RAIL FORCES DUE TO HOIST MACHINE, DEFLECTOR SHEAVE, AND DEAD END HITCH LOADS (NORMAL FORCES R1 AND R2 CAN BE OVER 13.3 KN [3.0 K] FOR SOME APPLICATIONS). COORDINATE LOADING AND SUPPORT LOCATIONS WITH ELEVATOR CONTRACTOR.

ASME A17.1

BUILDING SUPPORTS TO RESIST HORIZONTAL FORCES WITH A TOTAL DEFLECTIONS AT SUPPORT POINT NOT IN EXCESS OF 6.35MM (1/4") UNDER NORMAL CONDITIONS.

* THESE REACTIONS DO NOT OCCUR SIMULTANEOUSLY WITH PIT BUFFER REACTIONS

** BUILDING SUPPORTS FOR GUIDE RAIL ATTACHMENT SHALL RESIST HORIZONTAL FORCES WITH A TOTAL DEFLECTION NOT IN EXCESS OF 6.4 MM BASED UPON 0.5 G ACCELERATION DURING SEISMIC CONDITIONS.

IBC

*** BUILDING SUPPORTS FOR GUIDE RAIL ATTACHMENT SHALL RESIST HORIZONTAL FORCES DURING SEISMIC CONDITIONS.

SEISMIC INFORMATION			
SEISMIC DESIGN CATEGORY	ELEVATOR IMPORTANCE FACTOR	SDS	HORIZONTAL ACCELERATION EQUIVALENT
D	1.0	0.5 G	0.5

VERIFY: ALL ELEVATORS IN OCCUPANCY CATEGORY IV MUST BE $p = 1.5$. IN OCCUPANCY CATEGORIES I, II, OR III, THE STRETCHER ELEVATOR MAY NEED $p = 1.5$ AS A LIFE SAFETY COMPONENT OF THE BUILDING. (SEE IBC CODE).

7	RAIL REACTIONS
VT01	SCALE: N/A

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SOMMET BLANC
DEER VALLEY, UT

No.	Description	Date

Sheet Name

GENERAL ELEVATOR
INFORMATION

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Scale AS NOTED
FOR PROCUREMENT ONLY