1 VT01 INDEX OF DRAWINGS

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 VT01 SUMMARY OF ELEVATORS

SCALE: N/A

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

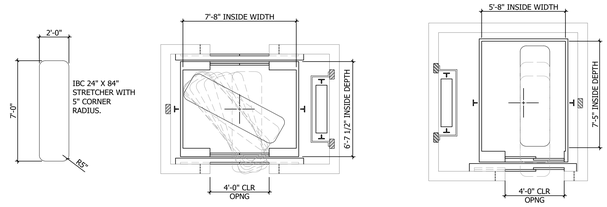
3 VT01 ABBREVIATIONS

SCALE: N/A

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

5 VT01 GENERAL NOTES

SCALE: NTS



4000# PASSENGER: SINGLE-SPEED CENTER OPENING FRONT AND REAR DOORS

4000# SERVICE: TWO-SPEED SIDE OPENING FRONT ONLY DOOR

6 VT01 STRETCHER ACCESS DIAGRAMS

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	
						CONTROLLER SPACE	MACHINE SPACE
				RUNNING	ACCELERATING	(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

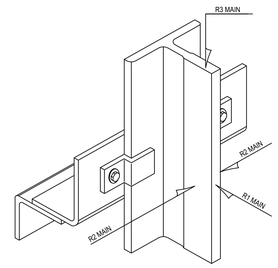
NOTES:

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 SCCR FOR ALL DISCONNECT FEEDER DESIGNS BASED ON SKA 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 SCCR FOR ALL DISCONNECT FEEDER DESIGNS BASED ON SKA 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 VT01 ELEVATOR ELECTRICAL AND MECHANICAL REQUIREMENTS

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*
IBC 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 Ip = 1.5. IN OCCUPANCY CATEGORIES I, II, OR III, THE STRETCHER ELEVATOR MAY NEED Ip = 1.5 AS A LIFE SAFETY COMPONENT OF THE BUILDING. (SEE IBC CODE).

7 VT01 RAIL REACTIONS

SCALE: N/A

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SOMMET BLANC

DEER VALLEY, UT

No.	Description	Date

Sheet Name

GENERAL ELEVATOR INFORMATION

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