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

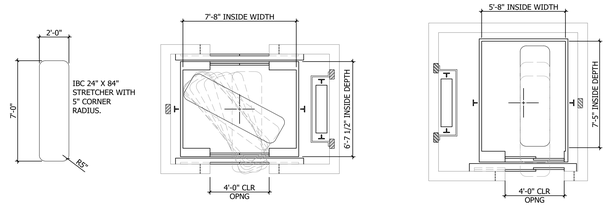
3 VT01 ABBREVIATIONS

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

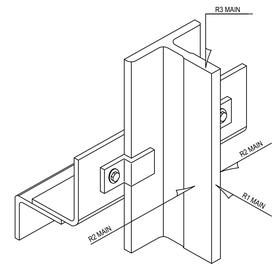
NOTES:

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

Issued For:	IFC Set
Project Number:	160-0100033534-01
Governing Codes:	ASME A17.1
Date:	11/18/2022
Drawn By:	JD
Checked By:	BA, JB
Sheet Number:	VT01
Scale	AS NOTED

FOR PROCUREMENT ONLY

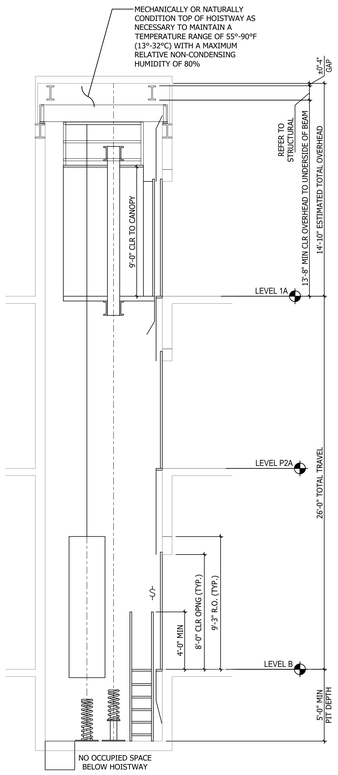
File Name: 160 1701100033534-01 Sommet Blanc 5-24-22.dwg

NOTES:

- APPLICATION DESIGNED FOR:

TKE - REFER TO MANUFACTURER SHOP DRAWINGS

PIT AND OVERHEAD PLANS INDICATE REACTIONS FOR MACHINE ROOM-LESS EQUIPMENT OF VARIOUS ELEVATOR VENDORS. WHERE REACTIONS OF DIFFERENT VENDORS OVERLAP, THE HIGHER REACTION IS INDICATED. REACTIONS FOR ONE VENDOR DO NOT OCCUR WITH THE REACTIONS OF OTHER VENDORS. OVERHEAD PLANS ARE NOT SHOWN FOR VENDORS WITH NO REACTIONS IN THE OVERHEAD.

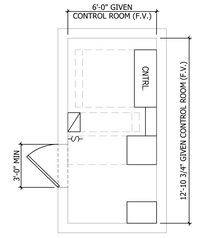


1 / VT02 HOISTWAY SECTION - KITCHEN SERVICE
SCALE: 1/4" = 1'-0"

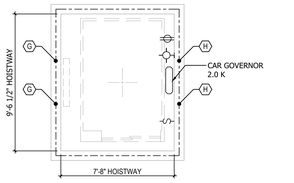
ALL VERTICAL DIMENSIONS THAT ARE DIMENSIONED FROM A BUILDING FLOOR ELEVATION ARE DIMENSIONED TO THE FINISH FLOOR ELEVATION.

ELEVATOR KITCHEN SERVICE

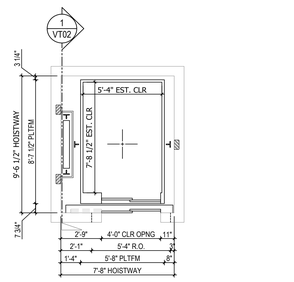
	FLOOR NUMBER	OPENING REAR/FRONT		FLOOR TRAVEL (FEET)
FLOORS SERVED	1A		F	0'-0"
	P2		N/S	9'-0"
	P2A		F	3'-0"
	B		F	14'-0"
TOTALS	OPENINGS	0	3	
	STOPS	3		
	TRAVEL			26'-0"



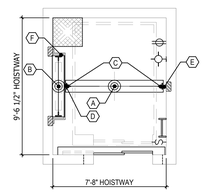
5 / VT02 REMOTE CONTROL ROOM PLAN
LEVEL B - ELEVATOR KITCHEN SERVICE
SCALE: 1/4" = 1'-0"



4 / VT02 OVERHEAD PLAN - LEVEL 1A - KITCHEN SERVICE
SCALE: 1/4" = 1'-0"



3 / VT02 HOISTWAY PLAN - LEVEL P2A - KITCHEN SERVICE
SCALE: 1/4" = 1'-0"



2 / VT02 PIT PLAN - LEVEL B - KITCHEN SERVICE
SCALE: 1/4" = 1'-0"

ELEVATOR KITCHEN SERVICE 4000# @ 150 FPM MRL

OVERHEAD NOTES:

1. PROVIDE ADEQUATE LIGHTING TO MAINTAIN MIN. 200 LUX (19 FC) ILLUMINATION AT TOP OF HOISTWAY.
2. PROVIDE LIGHTS, LIGHT SWITCHES AND GFCI- PROTECTED UTILITY OUTLETS. COORDINATE LOCATIONS WITH ELEVATOR CONTRACTOR.
3. PROVIDE STRUCTURAL SUPPORT TO SUSTAIN REACTIONS INDICATED.
4. PROVIDE 2 LIFELINE ATTACHMENTS AT THE TOP FRONT OF EACH HOISTWAY. EACH ATTACHMENT SHALL BE CAPABLE OF WITHSTANDING 5000# (2268 KG) LOAD PER OSHA. COORDINATE LOCATION OF ATTACHMENTS WITH ELEVATOR CONTRACTOR.
5. PROVIDE HOIST BEAM SUPPORT 15,000#. COORDINATE HOISTBEAM LOCATION(S) AND LOAD REQUIREMENTS WITH ELEVATOR CONTRACTOR.
6. OVERHEAD DIMENSIONS ARE CLEAR FROM F.F. AT TOP LANDING TO STRUCTURE OR ANY OBSTRUCTION ABOVE CAR AND/OR COUNTERWEIGHT.
7. MACHINE BEAM SUPPORT. THIS SUPPORT IS REQUIRED FOR ABOVE CAR MACHINE LOCATION. VERIFY MACHINE LOCATION WITH ELEVATOR CONTRACTOR.
8. OVERHEAD REACTIONS VARY PER VENDOR BASED ON CWT LOCATION AND METHOD OF SUPPORT FOR HOIST MACHINE AND DEAD END HITCHES. COORDINATE FINAL REACTIONS WITH ELEVATOR SHOP DRAWINGS.

OVERHEAD REACTION TABLE

DUTY: 4000# @ 150 FPM

KEY	REACTION (FORCES IN KIPS)	
G	18.2	EACH
H	11.6	EACH

HOISTWAY NOTES:

1. PROVIDE ACCESS PANEL AT TOP TERMINAL WHEN CONTROL ROOM IS REMOTE. COORDINATE SIZE AND LOCATION WITH ELEVATOR CONTRACTOR.
2. FOR ABOVE CAR MACHINE LOCATION, ERECT ENTRANCE SIDE HOISTWAY WALL AT ELEVATOR EQUIPMENT STORAGE LEVEL AFTER ELEVATOR EQUIPMENT HAS BEEN INSTALLED IN HOISTWAY.
3. PROVIDE SMOKE VENTING PER LOCAL CODE REQUIREMENTS.
4. FOR CERTAIN MRL VENDORS, PROVIDE ADDITIONAL LATERAL SUPPORTS ABOVE THE TOP TERMINAL FOR THE LARGE GUIDE RAIL FORCES DUE TO HOIST MACHINE, DEFLECTOR SHEAVE, AND DEAD END HITCH LOADS. COORDINATE LOADING REQUIREMENTS AND LOCATIONS WITH ELEVATOR CONTRACTOR.
5. ROUGH OPENINGS VARY BY MANUFACTURER, VERIFY ROUGH OPENING BEFORE CONSTRUCTION.
6. 1070 MM (42") CAR TOP RAILING PER CODE BY ELEVATOR CONTRACTOR.
7. ABOVE CAR MACHINE LOCATION. VERIFY FINAL LOCATION WITH ELEVATOR CONTRACTOR.
8. SIDE CWT MACHINE LOCATION. VERIFY FINAL LOCATION WITH ELEVATOR CONTRACTOR.
9. PROVIDE STRUCTURAL SUPPORT, FOR CAR AND CWT GUIDE RAIL FASTENING AT MAX. VERTICAL SPACING THROUGH TOP OF HOISTWAY AS SPECIFIED IN RAIL SUPPORT TABLE. IF THIS SPACING CANNOT BE MAINTAINED, PROVIDE INTERMEDIATE SUPPORT BEAMS OR CONTINUOUS VERTICAL STRUCTURE BETWEEN FLOOR BEAMS.

RAIL SUPPORT TABLE

15# RAILS		
CAR GUIDE RAIL	10'-6"	MAX SPAN
CWT GUIDE RAIL	10'-6"	MAX SPAN

CONTROL ROOM NOTES:

1. PROVIDE SELF-CLOSING, SELF-LOCKING CONTROL ROOM ACCESS DOOR.
2. PROVIDE ADEQUATE LIGHTING TO MAINTAIN MIN. 200 LUX (19 FC) ILLUMINATION AT CONTROL ROOM FLOOR.
3. PROVIDE 3-PHASE MAINLINE POWER FEEDER WITH DISCONNECTING MEANS FOR EACH ELEVATOR CONTROLLER.
4. PROVIDE 1-PHASE FEEDER WITH DISCONNECTING MEANS FOR CAR LIGHTING, VENTILATION SYSTEM AND RECEPTACLE FOR EACH ELEVATOR. THESE DISCONNECTING MEANS SHALL INCLUDE OVERCURRENT PROTECTION, SHALL BE LOCATED IN THE MACHINE ROOM, AND SHALL MEET N.E.C. REQUIREMENTS.
5. FOR MOST VENDORS, CONTROLLER MUST BE WITHIN 100' WIRE RUN LENGTH FROM THE CORRESPONDING MACHINE AT THE TOP OF THE HOISTWAY.

PIT NOTES:

1. PROVIDE ADEQUATE LIGHTING TO MAINTAIN MIN. 100 LUX (10 FC) ILLUMINATION AT PIT FLOOR.
2. PROVIDE PIT ACCESS LADDER(S) OR DOOR(S), LIGHT SWITCH(ES), LIGHT(S), AND GFCI-PROTECTED UTILITY OUTLET(S).
3. COORDINATE LIGHT FIXTURES AND UTILITY OUTLETS LOCATION WITH ELEVATOR CONTRACTOR.
4. PROVIDE ADEQUATE STRUCTURAL SUPPORT REQUIRED FOR BUFFER AND R3 RAIL FORCE REACTIONS.
5. ELEVATOR CONTRACTOR PROVIDE PERMANENT MEANS TO ACCESS UNDERSIDE OF CAR AS REQUIRED.
6. PROVIDE INDIRECT PIT DRAIN OR 24"x24"x24" SUMP PUMP, WITH GRATING COVER, LEVEL WITH PIT FLOOR. PROVIDE MINIMUM SUMP PUMP/DRAIN CAPACITY OF 3000 GALLONS/HOUR PER ELEVATOR.
7. ELEVATOR CONTRACTOR IS TO PROVIDE A COUNTERWEIGHT GUARD PER CODE.
8. ELEVATOR CONTRACTOR TO PROVIDE BUFFER ACCESS PLATFORM AND LADDER AS REQUIRED.
9. CAR/CWT BUFFER REACTIONS WILL NOT OCCUR SIMULTANEOUSLY. UNLESS SPECIFIED OTHERWISE.
10. REACTIONS HAVE BEEN DOUBLED FOR IMPACT.

PIT REACTION TABLE

DUTY: 4000# @ 150 FPM

KEY	REACTION (FORCES IN KIPS)		DESCRIPTION	
A	52.3		CAR BUFFER	
B	47.8		CWT BUFFER	
C	31.2	EACH	CAR SAFETY	(SEE CAR R3 RAIL FORCES)
ALTERNATE PIT REACTIONS FOR RAIL SUPPORTED MACHINE				
THE FOLLOWING REACTIONS OCCUR SIMULTANEOUSLY.				
D	31.0	EACH	DRIVE MACHINE LOAD ON CAR RAIL COMBINED WITH CWT DEH LOAD ON CWT RAIL	
E	22.0	EACH	DYNAMIC LOAD ON CAR RAIL	
F	10.3	EACH	DYNAMIC LOAD ON CWT RAIL	

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SOMMET BLANC

DEER VALLEY, UT

No.	Description	Date

Sheet Name

PLANS AND HOISTWAY SECTION - TOWER A - ELEVATOR KITCHEN SERVICE

Issued For: IFC SET

Project Number: 160-0100033534-01

Governing Codes: ASME A17.1

Date: 11/18/2022

Drawn By: JD

Checked By: BA, JB

Sheet Number: VT02

Scale AS NOTED

FOR PROCUREMENT ONLY

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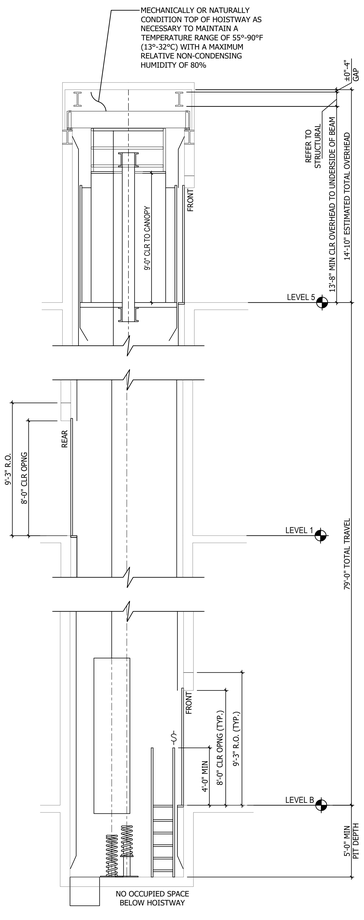
NOTES:

- APPLICATION DESIGNED FOR:

TKE - REFER TO MANUFACTURER SHOP DRAWINGS

PIT AND OVERHEAD PLANS INDICATE REACTIONS FOR MACHINE ROOM-LESS EQUIPMENT OF VARIOUS ELEVATOR VENDORS. WHERE REACTIONS OF DIFFERENT VENDORS OVERLAP, THE HIGHER REACTION IS INDICATED. REACTIONS FOR ONE VENDOR DO NOT OCCUR WITH THE REACTIONS OF OTHER VENDORS. OVERHEAD PLANS ARE NOT SHOWN FOR VENDORS WITH NO REACTIONS IN THE OVERHEAD.

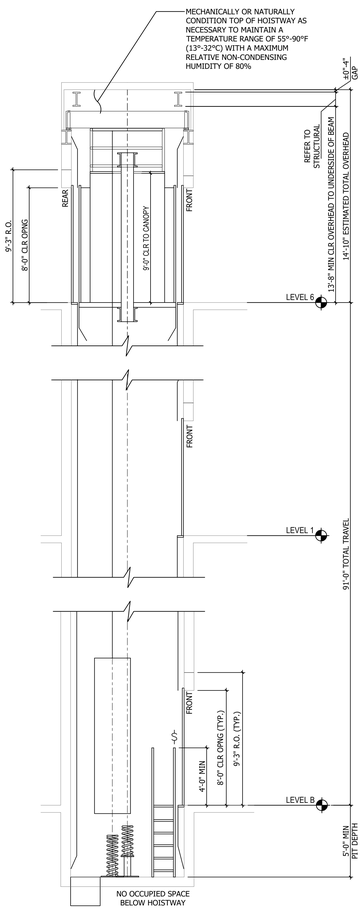


1 VT03 HOISTWAY SECTION - TENANT 1
SCALE: 1/4" = 1'-0"

ALL VERTICAL DIMENSIONS THAT ARE DIMENSIONED FROM A BUILDING FLOOR ELEVATION ARE DIMENSIONED TO THE FINISH FLOOR ELEVATION.

ELEVATOR TENANT 1

	FLOOR NUMBER	OPENING REAR/FRONT		FLOOR TRAVEL (FEET)
FLOORS SERVED	5		F	0'-0"
	4		F	12'-0"
	3		F	12'-0"
	2		F	12'-0"
	1	R		14'-0"
	1A		F	3'-0"
	P2		N/S	9'-0"
	P2A		F	3'-0"
	B		F	14'-0"
TOTALS	OPENINGS	1	7	
	STOPS	8		
	TRAVEL			79'-0"

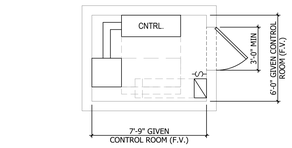


2 VT03 HOISTWAY SECTION - TENANT 2
SCALE: 1/4" = 1'-0"

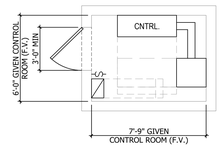
ALL VERTICAL DIMENSIONS THAT ARE DIMENSIONED FROM A BUILDING FLOOR ELEVATION ARE DIMENSIONED TO THE FINISH FLOOR ELEVATION.

ELEVATOR TENANT 2

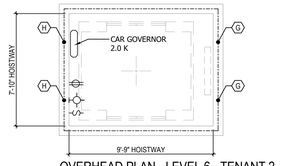
	FLOOR NUMBER	OPENING REAR/FRONT		FLOOR TRAVEL (FEET)
FLOORS SERVED	6	R	F	0'-0"
	5		F	12'-0"
	4		F	12'-0"
	3		F	12'-0"
	2		F	12'-0"
	1		F	14'-0"
	1A		N/S	3'-0"
	P2		F	9'-0"
	P2A		N/S	3'-0"
	B		F	14'-0"
TOTALS	OPENINGS	1	8	
	STOPS	8		
	TRAVEL			91'-0"



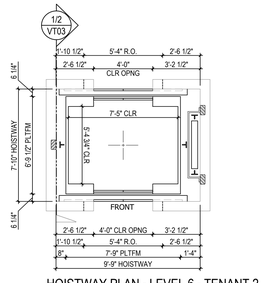
7 VT03 REMOTE CONTROL ROOM PLAN LEVEL B - ELEVATOR TENANT 2
SCALE: 1/4" = 1'-0"



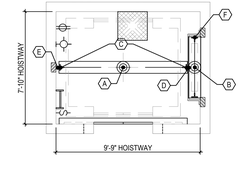
6 VT03 REMOTE CONTROL ROOM PLAN LEVEL B - ELEVATOR TENANT 1
SCALE: 1/4" = 1'-0"



5 VT03 OVERHEAD PLAN - LEVEL 6 - TENANT 2
OVERHEAD PLAN - LEVEL 5 - TENANT 1
SCALE: 1/4" = 1'-0"



4 VT03 HOISTWAY PLAN - LEVEL 6 - TENANT 2
HOISTWAY PLAN - LEVEL 1 - TENANT 1
SCALE: 1/4" = 1'-0"



3 VT03 PIT PLAN - LEVEL B -
TENANT 1 (TENANT 2 SIM.)
SCALE: 1/4" = 1'-0"

ELEVATORS TENANT 1 & TENANT 2 4000# @ 200 FPM MRL

OVERHEAD NOTES:

1. PROVIDE ADEQUATE LIGHTING TO MAINTAIN MIN. 200 LUX (19 FC) ILLUMINATION AT TOP OF HOISTWAY.
2. PROVIDE LIGHTS, LIGHT SWITCHES AND GFCI- PROTECTED UTILITY OUTLETS. COORDINATE LOCATIONS WITH ELEVATOR CONTRACTOR.
3. PROVIDE STRUCTURAL SUPPORT TO SUSTAIN REACTIONS INDICATED.
4. PROVIDE 2 LIFELINE ATTACHMENTS AT THE TOP FRONT OF EACH HOISTWAY. EACH ATTACHMENT SHALL BE CAPABLE OF WITHSTANDING 5000# (2268 KG) LOAD PER OSHA. COORDINATE LOCATION OF ATTACHMENTS WITH ELEVATOR CONTRACTOR.
5. PROVIDE HOIST BEAM SUPPORT 15,000#. COORDINATE HOISTBEAM LOCATION(S) AND LOAD REQUIREMENTS WITH ELEVATOR CONTRACTOR.
6. OVERHEAD DIMENSIONS ARE CLEAR FROM F.F. AT TOP LANDING TO STRUCTURE OR ANY OBSTRUCTION ABOVE CAR AND/OR COUNTERWEIGHT.
7. MACHINE BEAM SUPPORT. THIS SUPPORT IS REQUIRED FOR ABOVE CAR MACHINE LOCATION. VERIFY MACHINE LOCATION WITH ELEVATOR CONTRACTOR.
8. OVERHEAD REACTIONS VARY PER VENDOR BASED ON CWT LOCATION AND METHOD OF SUPPORT FOR HOIST MACHINE AND DEAD END HITCHES. COORDINATE FINAL REACTIONS WITH ELEVATOR SHOP DRAWINGS.

OVERHEAD REACTION TABLE

DUTY: 4000# @ 200 FPM

KEY	REACTION (FORCES IN KIPS)	
G	19.2	EACH
H	10.8	EACH

HOISTWAY NOTES:

1. PROVIDE ACCESS PANEL AT TOP TERMINAL WHEN CONTROL ROOM IS REMOTE. COORDINATE SIZE AND LOCATION WITH ELEVATOR CONTRACTOR.
2. FOR ABOVE CAR MACHINE LOCATION, ERECT ENTRANCE SIDE HOISTWAY WALL AT ELEVATOR EQUIPMENT STORAGE LEVEL AFTER ELEVATOR EQUIPMENT HAS BEEN INSTALLED IN HOISTWAY.
3. PROVIDE SMOKE VENTING PER LOCAL CODE REQUIREMENTS.
4. FOR CERTAIN MRL VENDORS, PROVIDE ADDITIONAL LATERAL SUPPORTS ABOVE THE TOP TERMINAL FOR THE LARGE GUIDE RAIL FORCES DUE TO HOIST MACHINE, DEFLECTOR SHEAVE, AND DEAD END HITCH LOADS. COORDINATE LOADING REQUIREMENTS AND LOCATIONS WITH ELEVATOR CONTRACTOR.
5. ROUGH OPENINGS VARY BY MANUFACTURER, VERIFY ROUGH OPENING BEFORE CONSTRUCTION.
6. 1070 MM (42") CAR TOP RAILING PER CODE BY ELEVATOR CONTRACTOR.
7. ABOVE CAR MACHINE LOCATION. VERIFY FINAL LOCATION WITH ELEVATOR CONTRACTOR.
8. SIDE CWT MACHINE LOCATION. VERIFY FINAL LOCATION WITH ELEVATOR CONTRACTOR.
9. PROVIDE STRUCTURAL SUPPORT, FOR CAR AND CWT GUIDE RAIL FASTENING AT MAX. VERTICAL SPACING THROUGH TOP OF HOISTWAY AS SPECIFIED IN RAIL SUPPORT TABLE. IF THIS SPACING CANNOT BE MAINTAINED, PROVIDE INTERMEDIATE SUPPORT BEAMS OR CONTINUOUS VERTICAL STRUCTURE BETWEEN FLOOR BEAMS.

RAIL SUPPORT TABLE

15# RAILS

CAR GUIDE RAIL	10'-6"	MAX SPAN
CWT GUIDE RAIL	10'-6"	MAX SPAN

CONTROL ROOM NOTES:

1. PROVIDE SELF-CLOSING, SELF-LOCKING CONTROL ROOM ACCESS DOOR.
2. PROVIDE ADEQUATE LIGHTING TO MAINTAIN MIN. 200 LUX (19 FC) ILLUMINATION AT CONTROL ROOM FLOOR.
3. PROVIDE 3-PHASE MAINLINE POWER FEEDER WITH DISCONNECTING MEANS FOR EACH ELEVATOR CONTROLLER.
4. PROVIDE 1-PHASE FEEDER WITH DISCONNECTING MEANS FOR CAR LIGHTING, VENTILATION SYSTEM AND RECEPTACLE FOR EACH ELEVATOR. THESE DISCONNECTING MEANS SHALL INCLUDE OVERCURRENT PROTECTION, SHALL BE LOCATED IN THE MACHINE ROOM, AND SHALL MEET N.E.C. REQUIREMENTS.
5. FOR MOST VENDORS, CONTROLLER MUST BE WITHIN 100' WIRE RUN LENGTH FROM THE CORRESPONDING MACHINE AT THE TOP OF THE HOISTWAY.

PIT NOTES:

1. PROVIDE ADEQUATE LIGHTING TO MAINTAIN MIN. 100 LUX (10 FC) ILLUMINATION AT PIT FLOOR.
2. PROVIDE PIT ACCESS LADDER(S) OR DOOR(S), LIGHT SWITCH(ES), LIGHT(S), AND GFCI-PROTECTED UTILITY OUTLET(S).
3. COORDINATE LIGHT FIXTURES AND UTILITY OUTLETS LOCATION WITH ELEVATOR CONTRACTOR.
4. PROVIDE ADEQUATE STRUCTURAL SUPPORT REQUIRED FOR BUFFER AND R3 RAIL FORCE REACTIONS.
5. ELEVATOR CONTRACTOR PROVIDE PERMANENT MEANS TO ACCESS UNDERSIDE OF CAR AS REQUIRED.
6. PROVIDE INDIRECT PIT DRAIN OR 24"x24"x24" SUMP PUMP, WITH GRATING COVER, LEVEL WITH PIT FLOOR. PROVIDE MINIMUM SUMP PUMP/DRAIN CAPACITY OF 3000 GALLONS/HOUR PER ELEVATOR.
7. ELEVATOR CONTRACTOR IS TO PROVIDE A COUNTERWEIGHT GUARD PER CODE.
8. ELEVATOR CONTRACTOR TO PROVIDE BUFFER ACCESS PLATFORM AND LADDER AS REQUIRED.
9. CAR/CWT BUFFER REACTIONS WILL NOT OCCUR SIMULTANEOUSLY. UNLESS SPECIFIED OTHERWISE.
10. REACTIONS HAVE BEEN DOUBLED FOR IMPACT.

PIT REACTION TABLE

DUTY: 4000# @ 200 FPM

KEY	REACTION (FORCES IN KIPS)		DESCRIPTION	
A	53.3		CAR BUFFER	
B	48.8		CWT BUFFER	
C	32.2	EACH	CAR SAFETY	(SEE CAR R3 RAIL FORCES)
ALTERNATE PIT REACTIONS FOR RAIL SUPPORTED MACHINE				
THE FOLLOWING REACTIONS DO OCCUR SIMULTANEOUSLY.				
D	32.0	EACH	DRIVE MACHINE LOAD ON CAR RAIL COMBINED WITH CWT DEH LOAD ON CWT RAIL	
E	23.0	EACH	DYNAMIC LOAD ON CAR RAIL	
F	10.7	EACH	DYNAMIC LOAD ON CWT RAIL	

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SOMMET BLANC

DEER VALLEY, UT

No.	Description	Date

Sheet Name

PLANS AND HOISTWAY SECTIONS - TOWER A - ELEVATORS TENANT 1 & 2

Issued For:
IFC SET

Project Number:	160-0100033534-01
Governing Codes:	ASME A17.1
Date:	11/18/2022
Drawn By:	JD
Checked By:	BA, JB
Sheet Number:	VT03
Scale	AS NOTED

FOR PROCUREMENT ONLY

File Name: 160-VT0100033534-07 Sommet Blanc E-24-22.dwg

NOTES:

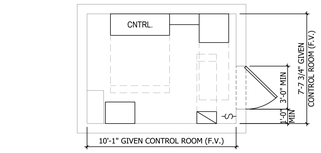
- APPLICATION DESIGNED FOR:

TKE - REFER TO MANUFACTURER SHOP DRAWINGS

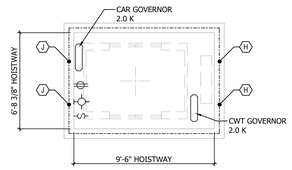
PIT AND OVERHEAD PLANS INDICATE REACTIONS FOR MACHINE ROOM-LESS EQUIPMENT OF VARIOUS ELEVATOR VENDORS. WHERE REACTIONS OF DIFFERENT VENDORS OVERLAP, THE HIGHER REACTION IS INDICATED. REACTIONS FOR ONE VENDOR DO NOT OCCUR WITH THE REACTIONS OF OTHER VENDORS. OVERHEAD PLANS ARE NOT SHOWN FOR VENDORS WITH NO REACTIONS IN THE OVERHEAD.

1 / VT04 — HOISTWAY SECTION - LOBBY SHUTTLE
SCALE: 1/4" = 1'-0"

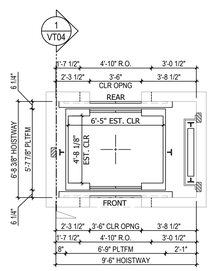
ALL VERTICAL DIMENSIONS THAT ARE DIMENSIONED FROM A BUILDING FLOOR ELEVATION ARE DIMENSIONED TO THE FINISH FLOOR ELEVATION.				
ELEVATOR LOBBY SHUTTLE				
FLOORS SERVED	FLOOR NUMBER	OPENING REAR/FRONT		FLOOR TRAVEL (FEET)
	1	R		0'-0"
	P1	R	F	12'-0"
TOTALS	OPENINGS	2	1	
	STOPS	2		
	TRAVEL			12'-0"



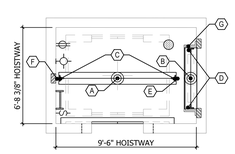
5 / VT04 — REMOTE CONTROL ROOM PLAN
LEVEL P1 - LOBBY SHUTTLE
SCALE: 1/4" = 1'-0"



4 / VT04 — OVERHEAD PLAN - LEVEL 1 - LOBBY SHUTTLE
SCALE: 1/4" = 1'-0"



3 / VT04 — HOISTWAY PLAN - LEVEL P1 - LOBBY SHUTTLE
SCALE: 1/4" = 1'-0"



2 / VT04 — PIT PLAN - LEVEL P1 - LOBBY SHUTTLE
SCALE: 1/4" = 1'-0"

ELEVATOR LOBBY SHUTTLE 2500# @ 150 FPM MRL

OVERHEAD NOTES:

1. PROVIDE ADEQUATE LIGHTING TO MAINTAIN MIN. 200 LUX (19 FC) ILLUMINATION AT TOP OF HOISTWAY.
2. PROVIDE LIGHTS, LIGHT SWITCHES AND GFCI- PROTECTED UTILITY OUTLETS. COORDINATE LOCATIONS WITH ELEVATOR CONTRACTOR.
3. PROVIDE STRUCTURAL SUPPORT TO SUSTAIN REACTIONS INDICATED.
4. PROVIDE 2 LIFELINE ATTACHMENTS AT THE TOP FRONT OF EACH HOISTWAY. EACH ATTACHMENT SHALL BE CAPABLE OF WITHSTANDING 5,000# (2268 KG) LOAD PER OSHA. COORDINATE LOCATION OF ATTACHMENTS WITH ELEVATOR CONTRACTOR.
5. PROVIDE HOIST BEAM SUPPORT 15,000#. COORDINATE HOISTBEAM LOCATION(S) AND LOAD REQUIREMENTS WITH ELEVATOR CONTRACTOR.
6. OVERHEAD DIMENSIONS ARE CLEAR FROM F.F. AT TOP LANDING TO STRUCTURE OR ANY OBSTRUCTION ABOVE CAR AND/OR COUNTERWEIGHT.
7. MACHINE BEAM SUPPORT. THIS SUPPORT IS REQUIRED FOR ABOVE CAR MACHINE LOCATION. VERIFY MACHINE LOCATION WITH ELEVATOR CONTRACTOR.
8. OVERHEAD REACTIONS VARY PER VENDOR BASED ON CWT LOCATION AND METHOD OF SUPPORT FOR HOIST MACHINE AND DEAD END HITCHES. COORDINATE FINAL REACTIONS WITH ELEVATOR SHOP DRAWINGS.

OVERHEAD REACTION TABLE		
DUTY: 2500# @ 150 FPM		
KEY	REACTION (FORCES IN KIPS)	
H	13.2	EACH
J	8.1	EACH

HOISTWAY NOTES:

1. PROVIDE ACCESS PANEL AT TOP TERMINAL WHEN CONTROL ROOM IS REMOTE. COORDINATE SIZE AND LOCATION WITH ELEVATOR CONTRACTOR.
2. FOR ABOVE CAR MACHINE LOCATION, ERECT ENTRANCE SIDE HOISTWAY WALL AT ELEVATOR EQUIPMENT STORAGE LEVEL AFTER ELEVATOR EQUIPMENT HAS BEEN INSTALLED IN HOISTWAY.
3. PROVIDE SMOKE VENTING PER LOCAL CODE REQUIREMENTS.
4. FOR CERTAIN MRL VENDORS, PROVIDE ADDITIONAL LATERAL SUPPORTS ABOVE THE TOP TERMINAL FOR THE LARGE GUIDE RAIL FORCES DUE TO HOIST MACHINE, DEFLECTOR SHEAVE, AND DEAD END HITCH LOADS. COORDINATE LOADING REQUIREMENTS AND LOCATIONS WITH ELEVATOR CONTRACTOR.
5. ROUGH OPENINGS VARY BY MANUFACTURER, VERIFY ROUGH OPENING BEFORE CONSTRUCTION.
6. 1070 MM (42") CAR TOP RAILING PER CODE BY ELEVATOR CONTRACTOR.
7. ABOVE CAR MACHINE LOCATION. VERIFY FINAL LOCATION WITH ELEVATOR CONTRACTOR.
8. SIDE CWT MACHINE LOCATION. VERIFY FINAL LOCATION WITH ELEVATOR CONTRACTOR.
9. PROVIDE STRUCTURAL SUPPORT, FOR CAR AND CWT GUIDE RAIL FASTENING AT MAX. VERTICAL SPACING THROUGH TOP OF HOISTWAY AS SPECIFIED IN RAIL SUPPORT TABLE. IF THIS SPACING CANNOT BE MAINTAINED, PROVIDE INTERMEDIATE SUPPORT BEAMS OR CONTINUOUS VERTICAL STRUCTURE BETWEEN FLOOR BEAMS.

RAIL SUPPORT TABLE		
15# RAILS		
CAR GUIDE RAIL	14'-0"	MAX SPAN
CWT GUIDE RAIL	14'-0"	MAX SPAN

CONTROL ROOM NOTES:

1. PROVIDE SELF-CLOSING, SELF-LOCKING CONTROL ROOM ACCESS DOOR.
2. PROVIDE ADEQUATE LIGHTING TO MAINTAIN MIN. 200 LUX (19 FC) ILLUMINATION AT CONTROL ROOM FLOOR.
3. PROVIDE 3-PHASE MAINLINE POWER FEEDER WITH DISCONNECTING MEANS FOR EACH ELEVATOR CONTROLLER.
4. PROVIDE 1-PHASE FEEDER WITH DISCONNECTING MEANS FOR CAR LIGHTING, VENTILATION SYSTEM AND RECEPTACLE FOR EACH ELEVATOR. THESE DISCONNECTING MEANS SHALL INCLUDE OVERCURRENT PROTECTION, SHALL BE LOCATED IN THE MACHINE ROOM, AND SHALL MEET N.E.C. REQUIREMENTS.
5. FOR MOST VENDORS, CONTROLLER MUST BE WITHIN 100' WIRE RUN LENGTH FROM THE CORRESPONDING MACHINE AT THE TOP OF THE HOISTWAY.

PIT NOTES:

1. PROVIDE ADEQUATE LIGHTING TO MAINTAIN MIN. 100 LUX (10 FC) ILLUMINATION AT PIT FLOOR.
2. PROVIDE PIT ACCESS LADDER(S) OR DOOR(S), LIGHT SWITCH(ES), LIGHT(S), AND GFCI-PROTECTED UTILITY OUTLET(S).
3. COORDINATE LIGHT FIXTURES AND UTILITY OUTLETS LOCATION WITH ELEVATOR CONTRACTOR.
4. PROVIDE ADEQUATE STRUCTURAL SUPPORT REQUIRED FOR BUFFER AND R3 RAIL FORCE REACTIONS.
5. ELEVATOR CONTRACTOR PROVIDE PERMANENT MEANS TO ACCESS UNDERSIDE OF CAR AS REQUIRED.
6. PROVIDE INDIRECT PIT DRAIN OR 24"x24"x24" SUMP PUMP, WITH GRATING COVER, LEVEL WITH PIT FLOOR. PROVIDE MINIMUM SUMP PUMP/DRAIN CAPACITY OF 3000 GALLONS/HOUR PER ELEVATOR.
7. ELEVATOR CONTRACTOR IS TO PROVIDE A COUNTERWEIGHT GUARD PER CODE.
8. ELEVATOR CONTRACTOR TO PROVIDE BUFFER ACCESS PLATFORM AND LADDER AS REQUIRED.
9. CAR/CWT BUFFER REACTIONS WILL NOT OCCUR SIMULTANEOUSLY. UNLESS SPECIFIED OTHERWISE.
10. REACTIONS HAVE BEEN DOUBLED FOR IMPACT.

PIT REACTION TABLE				
DUTY: 2500# @ 150 FPM				
KEY	REACTION (FORCES IN KIPS)		DESCRIPTION	
A	29.1		CAR BUFFER	
B	26.4		CWT BUFFER	
C	27.4	EACH	CAR SAFETY	(SEE CAR R3 RAIL FORCES)
D	23.4	EACH	CWT SAFETY	(SEE CWT R3 RAIL FORCES)
ALTERNATE PIT REACTIONS FOR RAIL SUPPORTED MACHINE				
THE FOLLOWING REACTIONS DO OCCUR SIMULTANEOUSLY.				
E	25.0	EACH	DRIVE MACHINE LOAD ON CAR RAIL COMBINED WITH CWT DEH LOAD ON CWT RAIL	
F	17.0	EACH	DYNAMIC LOAD ON CAR RAIL	
G	8.9	EACH	DYNAMIC LOAD ON CWT RAIL	

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DEER VALLEY, UT

No.	Description	Date

Sheet Name

PLANS AND HOISTWAY SECTION - TOWER B - ELEVATOR LOBBY SHUTTLE

Issued For: IFC SET

Project Number: 160-0100033534-01

Governing Codes: ASME A17.1

Date: 11/18/2022

Drawn By: JD

Checked By: BA, JB

Sheet Number: VT04

Scale: AS NOTED

FOR PROCUREMENT ONLY

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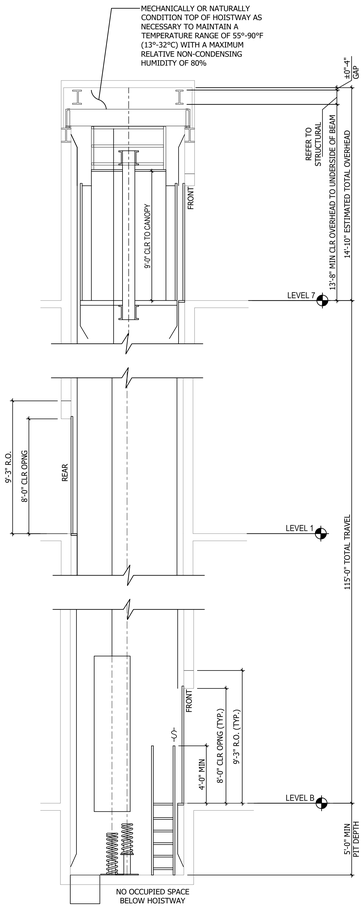
NOTES:

- APPLICATION DESIGNED FOR:

TKE - REFER TO MANUFACTURER SHOP DRAWINGS

PIT AND OVERHEAD PLANS INDICATE REACTIONS FOR MACHINE ROOM-LESS EQUIPMENT OF VARIOUS ELEVATOR VENDORS. WHERE REACTIONS OF DIFFERENT VENDORS OVERLAP, THE HIGHER REACTION IS INDICATED. REACTIONS FOR ONE VENDOR DO NOT OCCUR WITH THE REACTIONS OF OTHER VENDORS. OVERHEAD PLANS ARE NOT SHOWN FOR VENDORS WITH NO REACTIONS IN THE OVERHEAD.



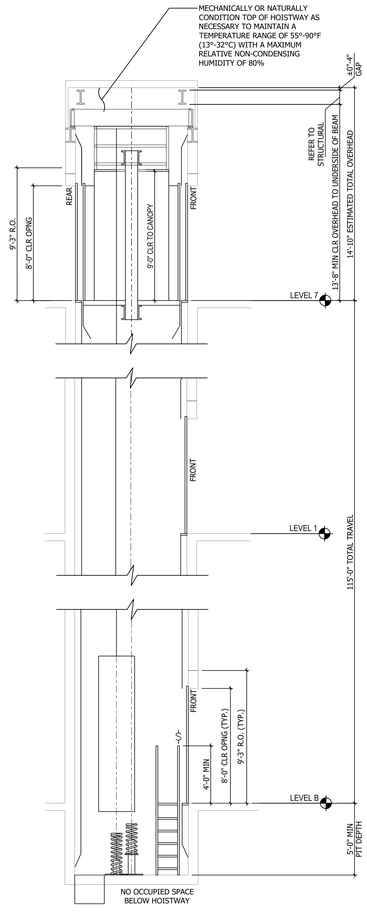
1 VT05 HOISTWAY SECTION - TENANT 4

SCALE: 1/4" = 1'-0"

ALL VERTICAL DIMENSIONS THAT ARE DIMENSIONED FROM A BUILDING FLOOR ELEVATION ARE DIMENSIONED TO THE FINISH FLOOR ELEVATION.

ELEVATOR TENANT 4

	FLOOR NUMBER	OPENING REAR/FRONT		FLOOR TRAVEL (FEET)
FLOORS SERVED	7		F	0'-0"
	6		F	12'-0"
	5		F	12'-0"
	4		F	12'-0"
	3		F	12'-0"
	2		F	12'-0"
	1A		F	14'-0"
	1	R		5'-0"
	P1		F	12'-0"
	P2		F	12'-0"
	B		F	12'-0"
TOTALS	OPENINGS	1	10	
	STOPS	11		
	TRAVEL			115'-0"



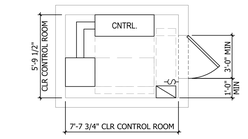
2 VT05 HOISTWAY SECTION - TENANT 3

SCALE: 1/4" = 1'-0"

ALL VERTICAL DIMENSIONS THAT ARE DIMENSIONED FROM A BUILDING FLOOR ELEVATION ARE DIMENSIONED TO THE FINISH FLOOR ELEVATION.

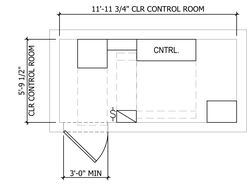
ELEVATOR TENANT 3

	FLOOR NUMBER	OPENING REAR/FRONT		FLOOR TRAVEL (FEET)
FLOORS SERVED	7	R	F	0'-0"
	6		F	12'-0"
	5		F	12'-0"
	4		F	12'-0"
	3		F	12'-0"
	2		F	12'-0"
	1A		N/S	14'-0"
	1		F	5'-0"
	P1		F	12'-0"
	P2		F	12'-0"
	B		F	12'-0"
TOTALS	OPENINGS	1	10	
	STOPS	10		
	TRAVEL			115'-0"



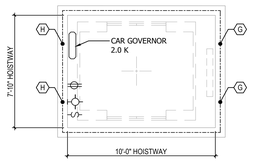
6 VT05 REMOTE CONTROL ROOM PLAN - LEVEL B - ELEVATOR TENANT 4

SCALE: 1/4" = 1'-0"



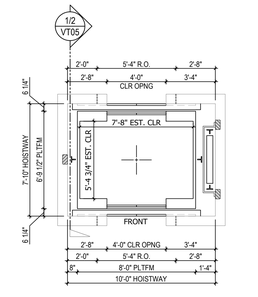
6 VT05 REMOTE CONTROL ROOM PLAN - LEVEL B - ELEVATOR TENANT 3

SCALE: 1/4" = 1'-0"



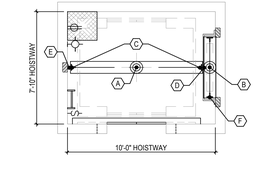
5 VT05 OVERHEAD PLAN - LEVEL 7 - TENANT 3 (TENANT 4 SIM.)

SCALE: 1/4" = 1'-0"



4 VT05 HOISTWAY PLAN - LEVEL 2 - TENANT 3 (TENANT 4 SIM.)

SCALE: 1/4" = 1'-0"



3 VT05 PIT PLAN - LEVEL B - TENANT 3 (TENANT 4 SIM.)

SCALE: 1/4" = 1'-0"

ELEVATORS TENANT 3 & 4 4000# @ 200 FPM MRL

OVERHEAD NOTES:

1. PROVIDE ADEQUATE LIGHTING TO MAINTAIN MIN. 200 LUX (19 FC) ILLUMINATION AT TOP OF HOISTWAY.
2. PROVIDE LIGHTS, LIGHT SWITCHES AND GFCI- PROTECTED UTILITY OUTLETS. COORDINATE LOCATIONS WITH ELEVATOR CONTRACTOR.
3. PROVIDE STRUCTURAL SUPPORT TO SUSTAIN REACTIONS INDICATED.
4. PROVIDE 2 LIFELINE ATTACHMENTS AT THE TOP FRONT OF EACH HOISTWAY. EACH ATTACHMENT SHALL BE CAPABLE OF WITHSTANDING 5000# (2268 KG) LOAD PER OSHA. COORDINATE LOCATION OF ATTACHMENTS WITH ELEVATOR CONTRACTOR.
5. PROVIDE HOIST BEAM SUPPORT 15,000#. COORDINATE HOISTBEAM LOCATION(S) AND LOAD REQUIREMENTS WITH ELEVATOR CONTRACTOR.
6. OVERHEAD DIMENSIONS ARE CLEAR FROM F.F. AT TOP LANDING TO STRUCTURE OR ANY OBSTRUCTION ABOVE CAR AND/OR COUNTERWEIGHT.
7. MACHINE BEAM SUPPORT. THIS SUPPORT IS REQUIRED FOR ABOVE CAR MACHINE LOCATION. VERIFY MACHINE LOCATION WITH ELEVATOR CONTRACTOR.
8. OVERHEAD REACTIONS VARY PER VENDOR BASED ON CWT LOCATION AND METHOD OF SUPPORT FOR HOIST MACHINE AND DEAD END HITCHES. COORDINATE FINAL REACTIONS WITH ELEVATOR SHOP DRAWINGS.

OVERHEAD REACTION TABLE

DUTY: 4000# @ 200 FPM		
KEY	REACTION (FORCES IN KIPS)	
G	19.2	EACH
H	10.8	EACH

HOISTWAY NOTES:

1. PROVIDE ACCESS PANEL AT TOP TERMINAL WHEN CONTROL ROOM IS REMOTE. COORDINATE SIZE AND LOCATION WITH ELEVATOR CONTRACTOR.
2. FOR ABOVE CAR MACHINE LOCATION, ERECT ENTRANCE SIDE HOISTWAY WALL AT ELEVATOR EQUIPMENT STORAGE LEVEL AFTER ELEVATOR EQUIPMENT HAS BEEN INSTALLED IN HOISTWAY.
3. PROVIDE SMOKE VENTING PER LOCAL CODE REQUIREMENTS.
4. FOR CERTAIN MRL VENDORS, PROVIDE ADDITIONAL LATERAL SUPPORTS ABOVE THE TOP TERMINAL FOR THE LARGE GUIDE RAIL FORCES DUE TO HOIST MACHINE, DEFLECTOR SHEAVE, AND DEAD END HITCH LOADS. COORDINATE LOADING REQUIREMENTS AND LOCATIONS WITH ELEVATOR CONTRACTOR.
5. ROUGH OPENINGS VARY BY MANUFACTURER, VERIFY ROUGH OPENING BEFORE CONSTRUCTION.
6. 1070 MM (42") CAR TOP RAILING PER CODE BY ELEVATOR CONTRACTOR.
7. ABOVE CAR MACHINE LOCATION. VERIFY FINAL LOCATION WITH ELEVATOR CONTRACTOR.
8. REAR/SIDE CWT MACHINE LOCATION. VERIFY FINAL LOCATION WITH ELEVATOR CONTRACTOR.
9. PROVIDE STRUCTURAL SUPPORT, FOR CAR AND CWT GUIDE RAIL FASTENING AT MAX. VERTICAL SPACING THROUGH TOP OF HOISTWAY AS SPECIFIED IN RAIL SUPPORT TABLE. IF THIS SPACING CANNOT BE MAINTAINED, PROVIDE INTERMEDIATE SUPPORT BEAMS OR CONTINUOUS VERTICAL STRUCTURE BETWEEN FLOOR BEAMS.

RAIL SUPPORT TABLE

15# RAILS		
CAR GUIDE RAIL	10'-6"	MAX SPAN
CWT GUIDE RAIL	10'-6"	MAX SPAN

CONTROL ROOM NOTES:

1. PROVIDE SELF-CLOSING, SELF-LOCKING CONTROL ROOM ACCESS DOOR.
2. PROVIDE ADEQUATE LIGHTING TO MAINTAIN MIN. 200 LUX (19 FC) ILLUMINATION AT CONTROL ROOM FLOOR.
3. PROVIDE 3-PHASE MAINLINE POWER FEEDER WITH DISCONNECTING MEANS FOR EACH ELEVATOR CONTROLLER.
4. PROVIDE 1-PHASE FEEDER WITH DISCONNECTING MEANS FOR CAR LIGHTING, VENTILATION SYSTEM AND RECEPTACLE FOR EACH ELEVATOR. THESE DISCONNECTING MEANS SHALL INCLUDE OVERCURRENT PROTECTION, SHALL BE LOCATED IN THE MACHINE ROOM, AND SHALL MEET N.E.C. REQUIREMENTS.
5. FOR MOST VENDORS, CONTROLLER MUST BE WITHIN 100' WIRE RUN LENGTH FROM THE CORRESPONDING MACHINE AT THE TOP OF THE HOISTWAY.

PIT NOTES:

1. PROVIDE ADEQUATE LIGHTING TO MAINTAIN MIN. 100 LUX (10 FC) ILLUMINATION AT PIT FLOOR.
2. PROVIDE PIT ACCESS LADDER(S) OR DOOR(S), LIGHT SWITCH(ES), LIGHT(S), AND GFCI-PROTECTED UTILITY OUTLET(S).
3. COORDINATE LIGHT FIXTURES AND UTILITY OUTLETS LOCATION WITH ELEVATOR CONTRACTOR.
4. PROVIDE ADEQUATE STRUCTURAL SUPPORT REQUIRED FOR BUFFER AND R3 RAIL FORCE REACTIONS.
5. ELEVATOR CONTRACTOR PROVIDE PERMANENT MEANS TO ACCESS UNDERSIDE OF CAR AS REQUIRED.
6. PROVIDE INDIRECT PIT DRAIN OR 24"x24"x24" SUMP PUMP, WITH GRATING COVER, LEVEL WITH PIT FLOOR. PROVIDE MINIMUM SUMP PUMP/DRAIN CAPACITY OF 3000 GALLONS/HOUR PER ELEVATOR.
7. ELEVATOR CONTRACTOR IS TO PROVIDE A COUNTERWEIGHT GUARD PER CODE.
8. ELEVATOR CONTRACTOR TO PROVIDE BUFFER ACCESS PLATFORM AND LADDER AS REQUIRED.
9. CAR/CWT BUFFER REACTIONS WILL NOT OCCUR SIMULTANEOUSLY. UNLESS SPECIFIED OTHERWISE.
10. REACTIONS HAVE BEEN DOUBLED FOR IMPACT.

PIT REACTION TABLE

DUTY: 4000# @ 200 FPM				
KEY	REACTION (FORCES IN KIPS)		DESCRIPTION	
A	53.3		CAR BUFFER	
B	48.8		CWT BUFFER	
C	32.2	EACH	CAR SAFETY	(SEE CAR R3 RAIL FORCES)

ALTERNATE PIT REACTIONS FOR RAIL SUPPORTED MACHINE			
THE FOLLOWING REACTIONS DO OCCUR SIMULTANEOUSLY.			
D	32.0	EACH	DRIVE MACHINE LOAD ON CAR RAIL COMBINED WITH CWT DEH LOAD ON CWT RAIL
E	23.0	EACH	DYNAMIC LOAD ON CAR RAIL
F	10.7	EACH	DYNAMIC LOAD ON CWT RAIL

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DEER VALLEY, U

No.	Description	Date

Sheet Name

PLANS AND HOISTWAY SECTIONS - TOWER B - ELEVATORS TENANT 3 & 4

Issued For:	IFC SET
Project Number:	160-0100033534-01
Governing Codes:	ASME A17.1
Date:	07/15/2022
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Checked By:	BA, JB
Sheet Number:	VT05
Scale	AS NOTED

FOR PROCUREMENT ONLY

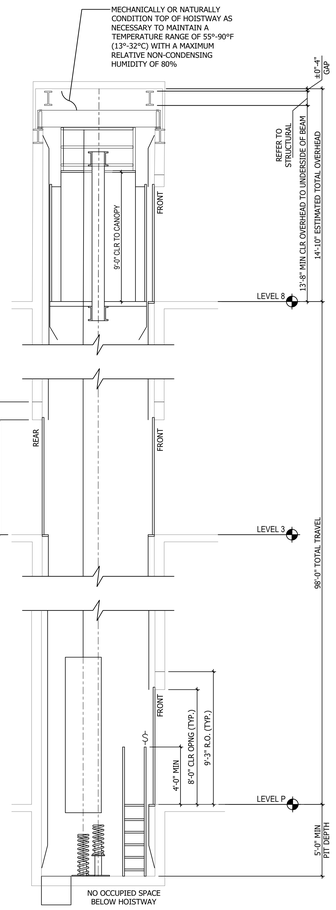
File Name: 160 1710100033534-07 Sommet Blanc 5-24-22.dwg

NOTES:

- APPLICATION DESIGNED FOR:

TKE - REFER TO MANUFACTURER SHOP DRAWINGS

PIT AND OVERHEAD PLANS INDICATE REACTIONS FOR MACHINE ROOM-LESS EQUIPMENT OF VARIOUS ELEVATOR VENDORS. WHERE REACTIONS OF DIFFERENT VENDORS OVERLAP, THE HIGHER REACTION IS INDICATED. REACTIONS FOR ONE VENDOR DO NOT OCCUR WITH THE REACTIONS OF OTHER VENDORS. OVERHEAD PLANS ARE NOT SHOWN FOR VENDORS WITH NO REACTIONS IN THE OVERHEAD.

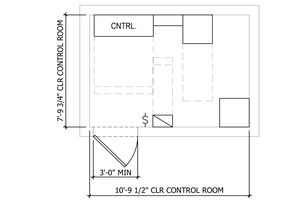


1 VT06 HOISTWAY SECTION - TENANT 5
SCALE: 1/4" = 1'-0"

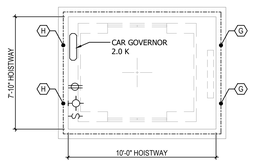
ALL VERTICAL DIMENSIONS THAT ARE DIMENSIONED FROM A BUILDING FLOOR ELEVATION ARE DIMENSIONED TO THE FINISH FLOOR ELEVATION.

ELEVATOR TENANT 5

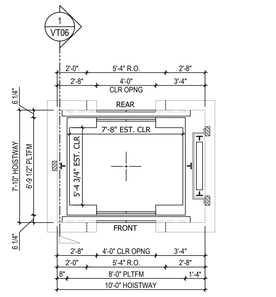
	FLOOR NUMBER	OPENING REAR/FRONT		FLOOR TRAVEL (FEET)
FLOORS SERVED	8		F	0'-0"
	7	R	F	12'-0"
	6	R	F	12'-0"
	5	R	F	12'-0"
	4	R	F	12'-0"
	3	R	F	12'-0"
	2	R	F	12'-0"
	1	R		14'-0"
	P		F	12'-0"
TOTALS	OPENINGS	7	8	
	STOPS	9		
	TRAVEL			98'-0"



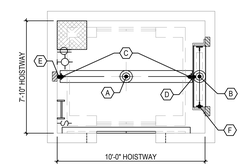
5 VT06 REMOTE CONTROL ROOM PLAN - LEVEL P1 - ELEVATOR TENANT 5
SCALE: 1/4" = 1'-0"



4 VT06 OVERHEAD PLAN - LEVEL 8 - TENANT 5
SCALE: 1/4" = 1'-0"



3 VT06 HOISTWAY PLAN - LEVEL 3 - TENANT 5
SCALE: 1/4" = 1'-0"



2 VT06 PIT PLAN - LEVEL P1 - TENANT 5
SCALE: 1/4" = 1'-0"

ELEVATOR TENANT 5 4000# @ 200 FPM MRL

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OVERHEAD REACTION TABLE

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8. SIDE CWT MACHINE LOCATION. VERIFY FINAL LOCATION WITH ELEVATOR CONTRACTOR.
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C	32.2	EACH	CAR SAFETY	(SEE CAR R3 RAIL FORCES)
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THE FOLLOWING REACTIONS DO OCCUR SIMULTANEOUSLY.				
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E	23.0	EACH	DYNAMIC LOAD ON CAR RAIL	
F	10.7	EACH	DYNAMIC LOAD ON CWT RAIL	

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No.	Description	Date

Sheet Name

PLANS AND HOISTWAY SECTION - TOWER C - ELEVATOR TENANT 5

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