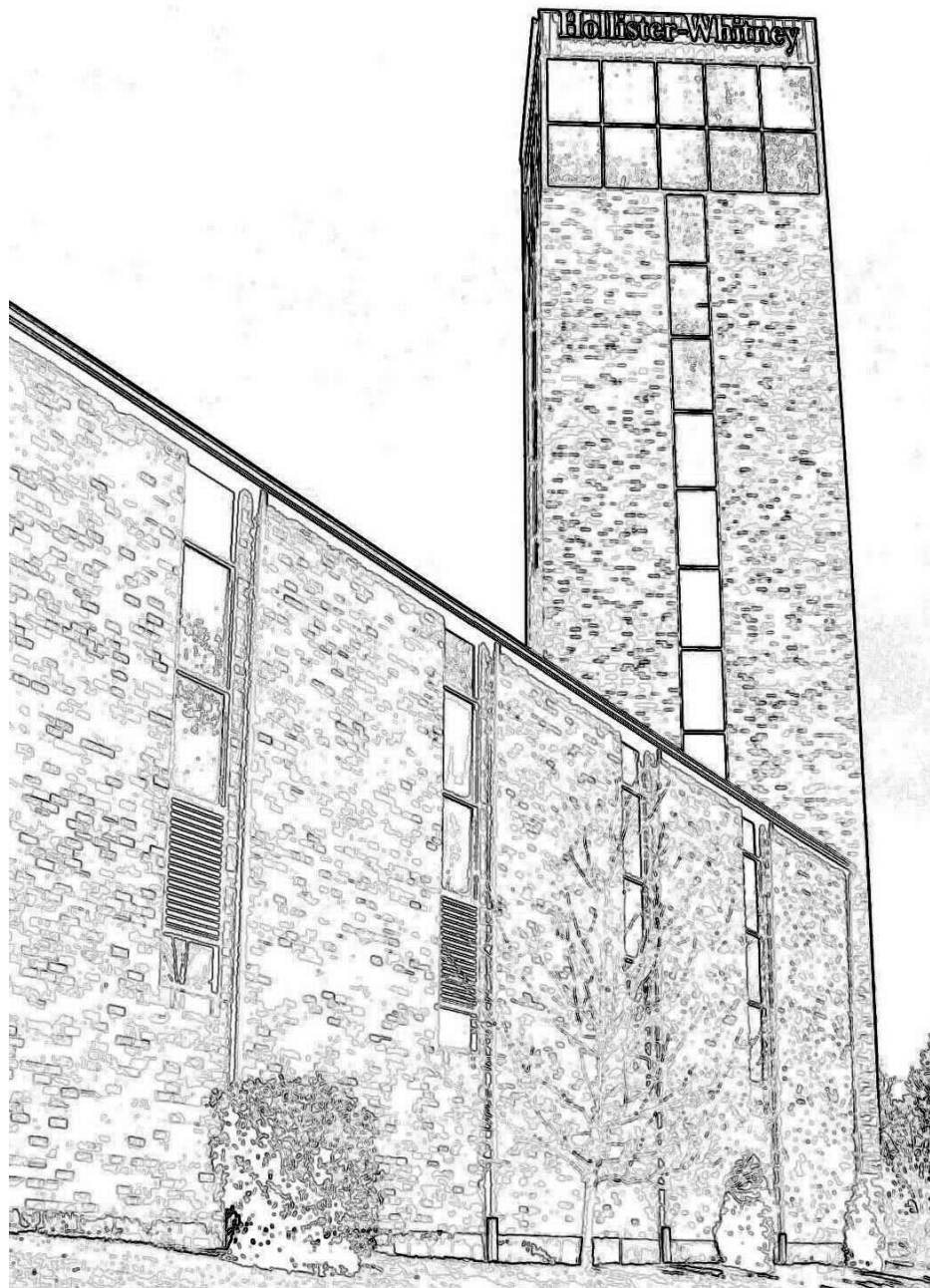




*Hollister-Whitney*  
A **VANTAGE** Company

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## ***BASEMENT GEARED TRACTION*** ***DESIGN GUIDE***





#1 HOLLISTER-WHITNEY PARKWAY  
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**CONTENTS:**

IBC Stretcher Access .....	P. 3
Passenger, Front Opening, CWT at Rear, Machine at Rear.....	P. 4-5
Passenger, Front Opening, CWT at Rear, Machine at Side.....	P. 6-7
Passenger, Front Opening, CWT at Side, Machine at Side.....	P. 8-9
Passenger, Front & Rear Opening, CWT at Side, Machine at Side....	P. 10-11

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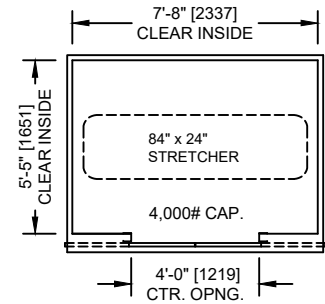
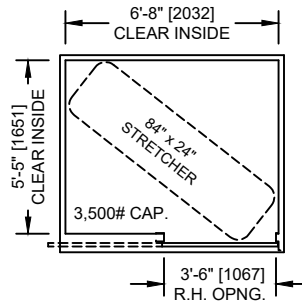
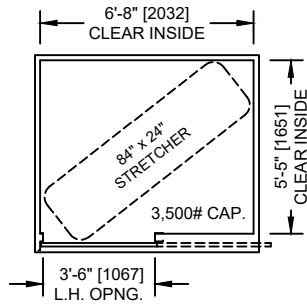
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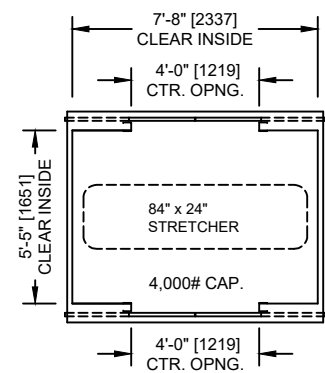
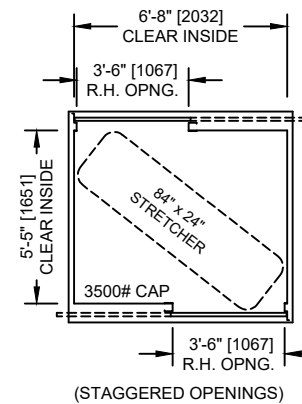
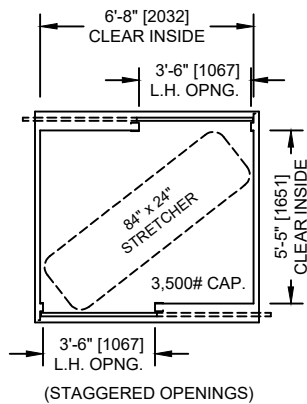
## BASEMENT GEARED TRACTION DESIGN GUIDE IBC Stretcher Access

### STRETCHER REQUIREMENTS:

Section 3002.4 of the International Building Code (IBC) states that "where elevators in buildings four or more stories above, or four or more stories below grade plane, at least one elevator shall be provided for Fire Department emergency access to all floors". According to the IBC Code, the elevator should accommodate an open stretcher in the horizontal position 24 inches x 84 inches with not less than 5-inch radius corners. The following configurations and minimum dimensions comply with these IBC requirements:



### PASSENGER ELEVATORS WITH FRONT OPENING DOOR

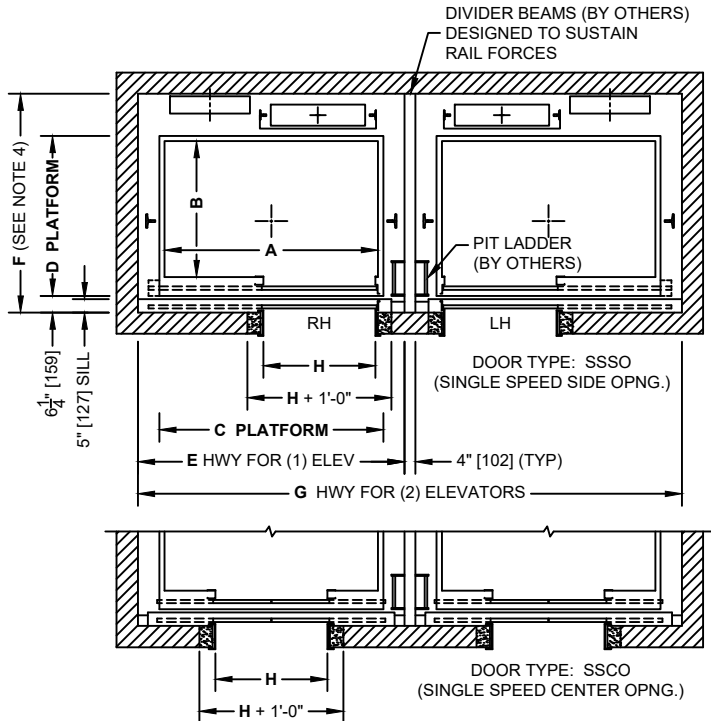


### PASSENGER ELEVATORS WITH FRONT & REAR OPENING DOORS

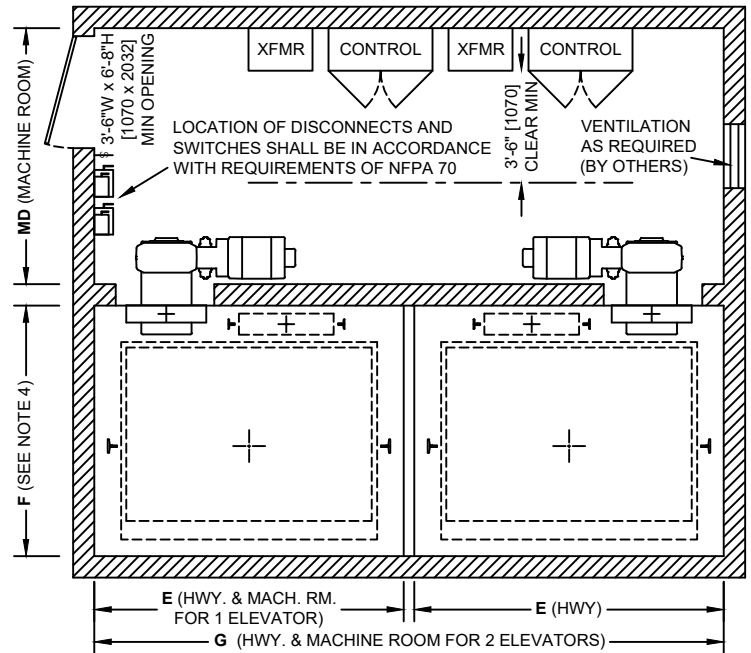


## BASEMENT GEARED TRACTION DESIGN GUIDE

### Passenger, Front Opening, CWT at Rear, Machine at Rear



**HOISTWAY PLAN**



**MACHINE ROOM PLAN**

#### NOTES:

1. Dimensions shown are based on the H-W GT series BS flange mount machines, standard equipment sizes and capacities for typical building installations and should only be used for preliminary planning. Contact H-W for additional information before proceeding with construction or for assistance with existing or special conditions.
2. Dimensional data complies with the ASME A17.1 / CSA B44 Safety Code for Elevators and Escalators. State or local codes must be used if they differ from national code.
3. Interior cab dimensions may vary depending on the interior finishes. The platform and hoistway sizes should be increased accordingly for extra thick cab finishes.
4. Counterweight safeties are required if there is "occupied space" below the pit. Add 8" [203] to the hoistway and machine room depths listed.

#### HOISTWAY AND MACHINE ROOM DIMENSIONS

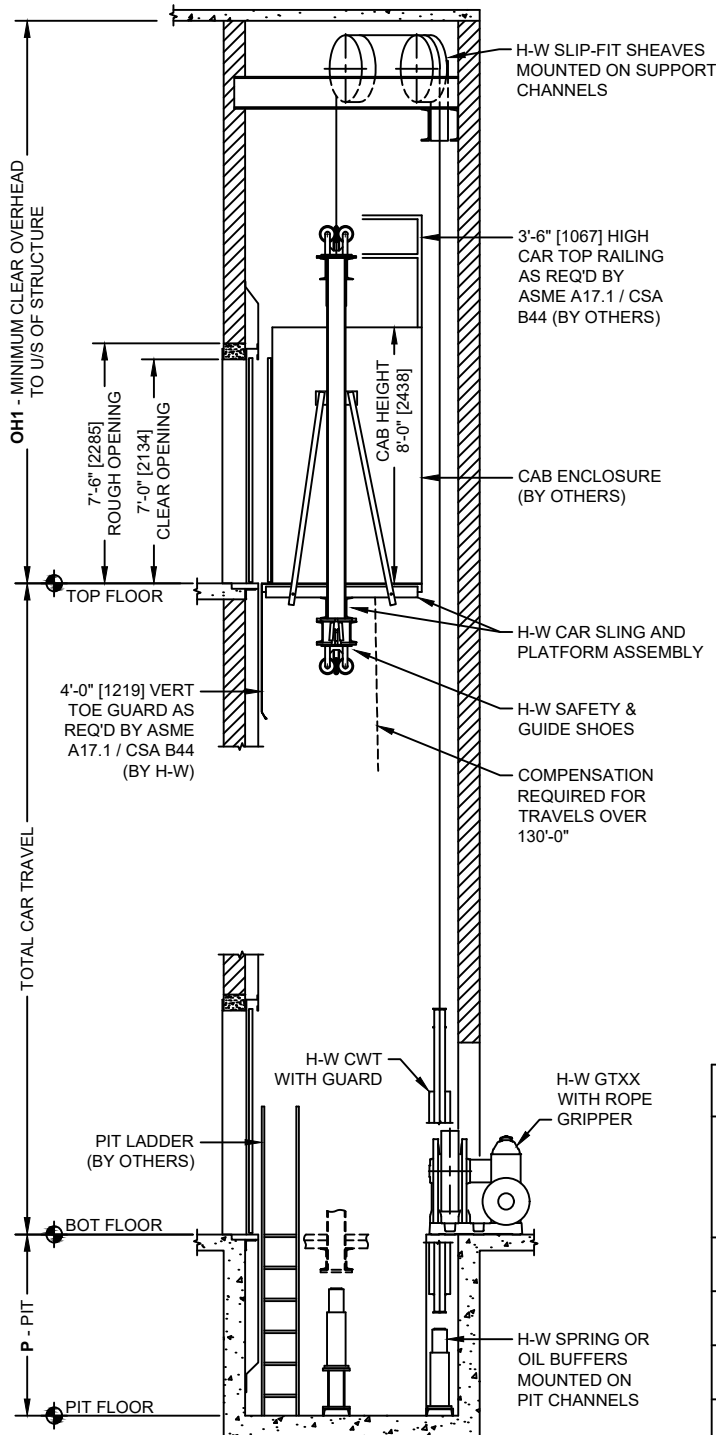
CAPACITY lb [kg]	INSIDE AREA (MAX SF ALLOWED PER CODE)	H CLEAR OPENING WIDTH ft [mm]	DOOR TYPE	MINIMUM CLEAR CAB INSIDE		PLATFORM SIZE		HOISTWAY SIZE (NON-SEISMIC)			HOISTWAY SIZE (SEISMIC ZONE 2 OR GREATER)			MACH ROOM
				A WIDTH ft [mm]	B DEPTH ft [mm]	C WIDTH ft [mm]	D DEPTH ft [mm]	E CLEAR WIDTH ft [mm]	F CLEAR DEPTH ft [mm]	G (DUPLEX) WALL TO WALL ft [mm]	E CLEAR WIDTH ft [mm]	F CLR DEPTH ft [mm]	G (DUPLEX) WALL TO WALL ft [mm]	
2,000 [900]	24.2 [2.25]	3'-0" [914]	SSSO (a)	5'-8" [1727]	4'-3" [1295]	6'-0" [1829]	5'-0" [1524]	7'-4" [2235]	6'-8" [2032]	15'-0" [4572]	7'-8" [2337]	6'-8" [2032]	15'-8" [4775]	8'-0" [2438]
2,500 [1160]	29.1 [2.70]	3'-6" [1067]	SSSO (b) SSCO (a)	6'-8" [2032]	4'-3" [1295]	7'-0" [2134]	5'-0" [1524]	8'-4" [2540]	6'-8" [2032]	17'-0" [5182]	8'-8" [2642]	6'-8" [2032]	17'-8" [5385]	8'-0" [2438]
3,000 [1380]	33.7 [3.13]	3'-6" [1067]	SSSO (b) SSCO (a)	6'-8" [2032]	4'-9" [1448]	7'-0" [2134]	5'-6" [1676]	8'-4" [2540]	7'-2" [2184]	17'-0" [5182]	8'-8" [2642]	7'-2" [2184]	17'-8" [5385]	8'-0" [2438]
3,500 [1600]	38.0 [3.53]	3'-6" [1067]	SSSO (c) SSCO (b)	6'-8" [2032]	5'-5" [1651]	7'-0" [2134]	6'-2" [1880]	8'-4" [2540]	7'-10" [2388]	17'-0" [5182]	8'-8" [2642]	7'-10" [2388]	17'-8" [5385]	8'-0" [2438]
4,000 [1815]	42.2 [3.92]	3'-6" [1067] 4'-0" [1219]	SSSO (c) SSCO (c)	7'-8" [2337]	5'-5" [1651]	8'-0" [2438]	6'-2" [1880]	9'-4" [2845]	7'-10" (d) [2388]	19'-0" [5791]	9'-8" [2946]	7'-10" (d) [2388]	19'-8" [5994]	8'-0" [2438]

- a. These car dimensions and entrance types provide wheelchair accessibility.
- b. These car dimensions and entrance types provide wheelchair accessibility and accommodate an ambulance type stretcher of (76"x24") in the horizontal position.
- c. These car dimensions and entrance types provide wheelchair accessibility and accommodate an ambulance type stretcher of (84"x24") in the horizontal position as required by the IBC.
- d. At 450-500fpm add 6" [152] to the hoistway clear depth.

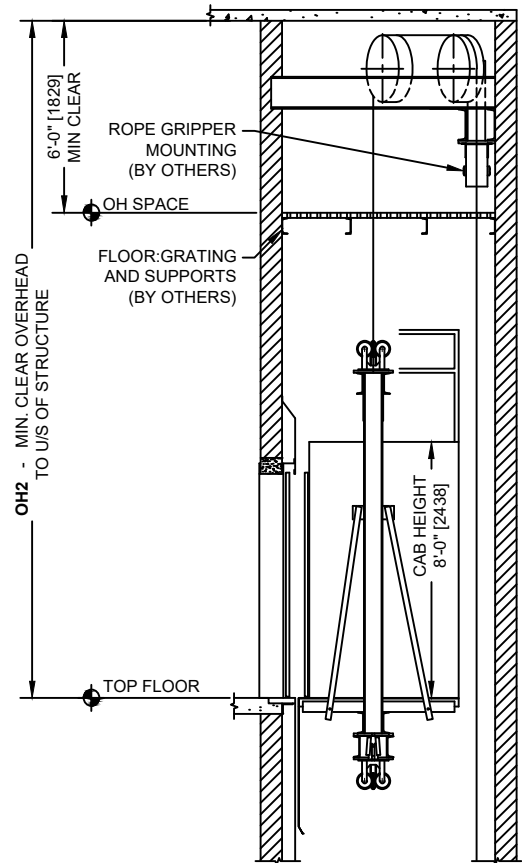


## BASEMENT GEARED TRACTION DESIGN GUIDE

### Passenger, Front Opening, CWT at Rear, Machine at Rear



**HOISTWAY SECTION  
(BASEMENT SET MACHINE  
WITH ROPE GRIPPER MOUNTING)**



**HOISTWAY SECTION  
(ROPE GRIPPER MOUNTED  
BELOW SHEAVE STEEL)**

PIT AND OVERHEAD DIMENSIONS			
RATED SPEED fpm [m/s]	PIT DEPTH	MINIMUM OVERHEAD (MACHINE MOUNTED ROPE GRIPPER)	MINIMUM OVERHEAD (OVERHEAD MOUNTED ROPE GRIPPER)
	P	OH1	OH2
100 - 200 fpm [.50 - 1.00 m/s]	5'-6" [1676]	16'-2" [4928]	20'-2" [6147]
250 - 350 fpm [1.25 - 1.75 m/s]	5'-8" [1727]	16'-9" [5104]	20'-9" [6325]
400 fpm [2.00 m/s]	6'-0" [1829]	17'-3" [5258]	21'-3" [6477]
450 fpm * [2.25 m/s]	6'-8" [2032]	18'-3" [5563]	22'-3" [6782]
500 fpm * [2.50 m/s]	6'-8" [2032]	18'-6" [5639]	22'-6" [6858]

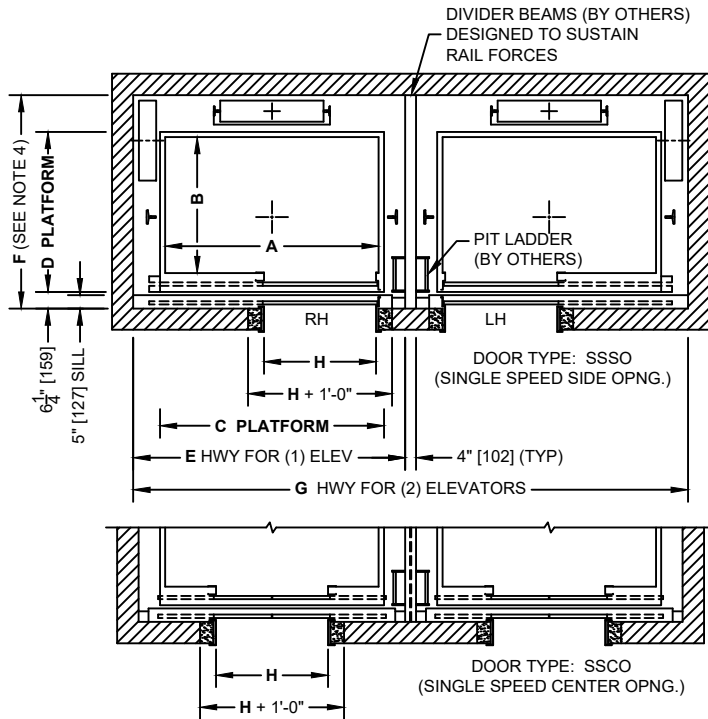
Overhead dimensions (OH) are based on an 8'-0" [2438mm] cab height with a 7'-0" [2134mm] door. For 9'-0" [2745] cab use OH + 1'-0" [305]. For 10'-0" [3050] cab use OH + 2'-0" [610].

\* Additional depth will be required for machine room and hoistway at 4000# capacity.

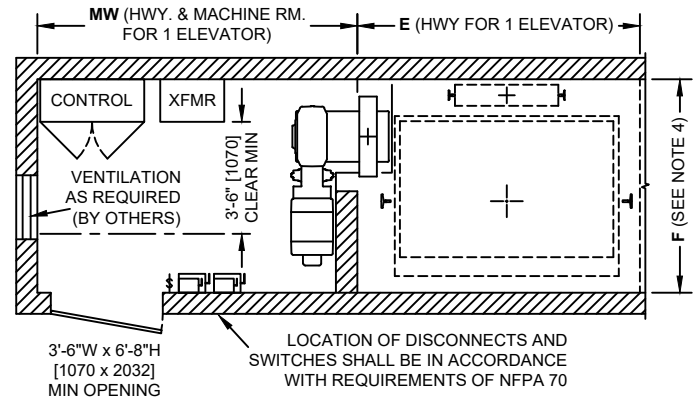


## BASEMENT GEARED TRACTION DESIGN GUIDE

### Passenger, Front Opening, CWT at Rear, Machine at Side



**HOISTWAY PLAN**



**MACHINE ROOM PLAN**

#### NOTES:

1. Dimensions shown are based on the H-W GT series BS flange mount machines, standard equipment sizes and capacities for typical building installations and should only be used for preliminary planning. Contact H-W for additional information before proceeding with construction or for assistance with existing or special conditions.
2. Dimensional data complies with the ASME A17.1 / CSA B44 Safety Code for Elevators and Escalators. State or local codes must be used if they differ from national code.
3. Interior cab dimensions may vary depending on the interior finishes. The platform and hoistway sizes should be increased accordingly for extra thick cab finishes.
4. Counterweight safeties are required if there is "occupied space" below the pit. Add 8" [203] to the hoistway and machine room depths listed.

#### HOISTWAY AND MACHINE ROOM DIMENSIONS

CAPACITY lb [kg]	INSIDE AREA (MAX SF ALLOWED PER CODE)	H CLEAR OPENING WIDTH ft [mm]	OPENING TYPE (1)	MINIMUM CLEAR CAB INSIDE		PLATFORM SIZE		HOISTWAY SIZE (NON-SEISMIC)			HOISTWAY SIZE (SEISMIC ZONE 2 OR GREATER)			MACH ROOM
				A WIDTH ft [mm]	B DEPTH ft [mm]	C WIDTH ft [mm]	D DEPTH ft [mm]	E CLR WIDTH ft [mm]	F CLR DEPTH ft [mm]	G (DUPLEX) WALL TO WALL ft [mm]	E CLR WIDTH ft [mm]	F CLR DEPTH ft [mm]	G (DUPLEX) WALL TO WALL ft [mm]	
2,000 [900]	24.2 [2.25]	3'-0" [914]	SSSO (a)	5'-8" [1727]	4'-3" [1295]	6'-0" [1829]	5'-0" [1524]	8'-0" [2438]	6'-8" [2032]	16'-4" [4978]	8'-2" [2489]	6'-8" [2032]	16'-8" [5080]	10'-0" [3048]
2,500 [1160]	29.1 [2.70]	3'-6" [1067]	SSSO (b) SSCO (a)	6'-8" [2032]	4'-3" [1295]	7'-0" [2134]	5'-0" [1524]	9'-0" [2743]	6'-8" [2032]	18'-4" [5588]	9'-2" [2794]	6'-8" [2032]	18'-8" [5690]	10'-0" [3048]
3,000 [1380]	33.7 [3.13]	3'-6" [1067]	SSSO (b) SSCO (a)	6'-8" [2032]	4'-9" [1448]	7'-0" [2134]	5'-6" [1676]	9'-0" [2743]	7'-2" [2184]	18'-4" [5588]	9'-2" [2794]	7'-2" [2184]	18'-8" [5690]	10'-0" [3048]
3,500 [1600]	38.0 [3.53]	3'-6" [1067]	SSSO (c) SSCO (b)	6'-8" [2032]	5'-5" [1651]	7'-0" [2134]	6'-2" [1880]	9'-0" [2743]	7'-10" [2388]	18'-4" [5588]	9'-2" [2794]	7'-10" [2388]	18'-8" [5690]	10'-6" [3200]
4,000 [1815]	42.2 [3.92]	3'-6" [1067] 4'-0" [1219]	SSSO (c) SSCO (c)	7'-8" [2337]	5'-5" [1651]	8'-0" [2438]	6'-2" [1880]	10'-0" (d) [3048]	7'-10" [2388]	20'-4" (d) [6198]	10'-2" (d) [3099]	7'-10" [2388]	20'-8" (d) [6299]	10'-6" [3200]

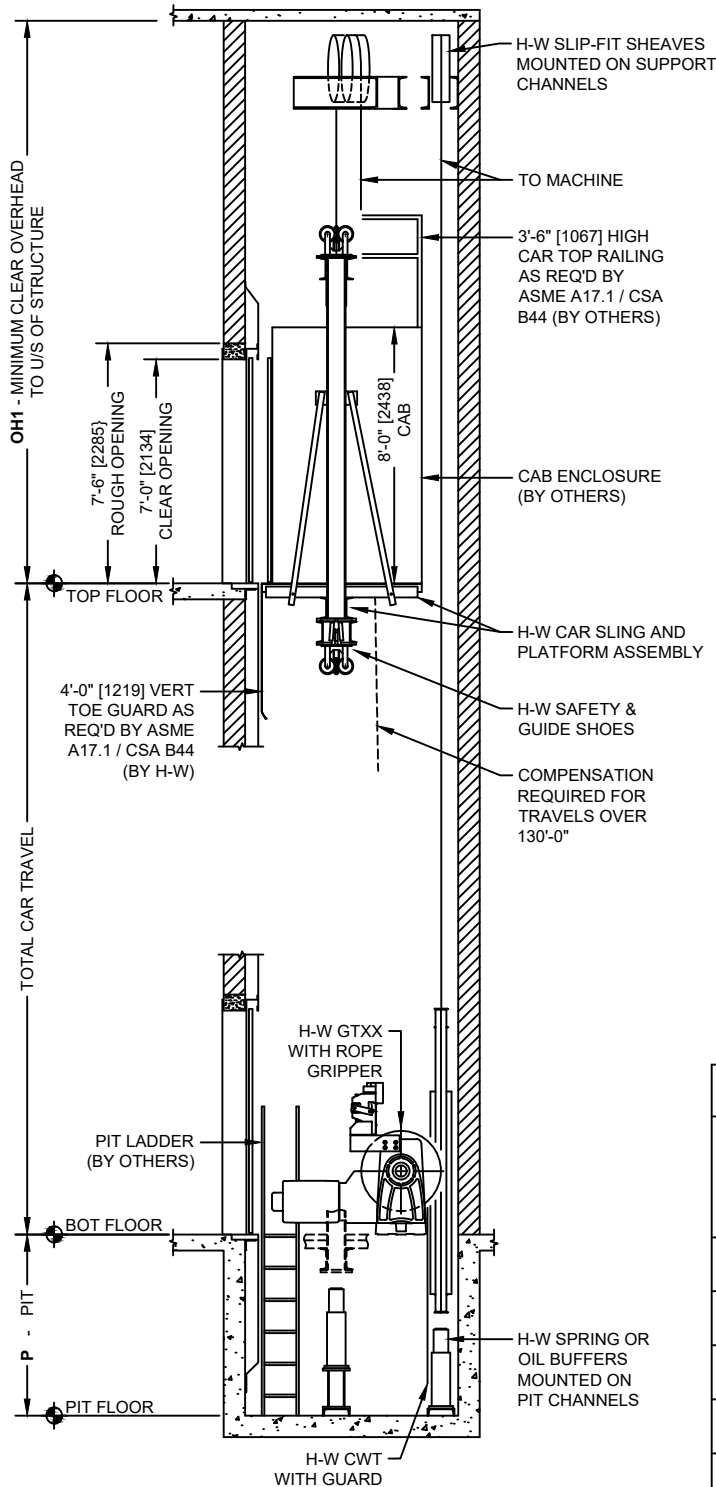
- a. These car dimensions and entrance types provide wheelchair accessibility.
- b. These car dimensions and entrance types provide wheelchair accessibility and accommodate an ambulance type stretcher of (76"x24") in the horizontal position.
- c. These car dimensions and entrance types provide wheelchair accessibility and accommodate an ambulance type stretcher of (84"x24") in the horizontal position as required by the IBC.
- d. At 450-500fpm add 6" to the hoistway clear width and 1'-0" to the duplex wall to wall.



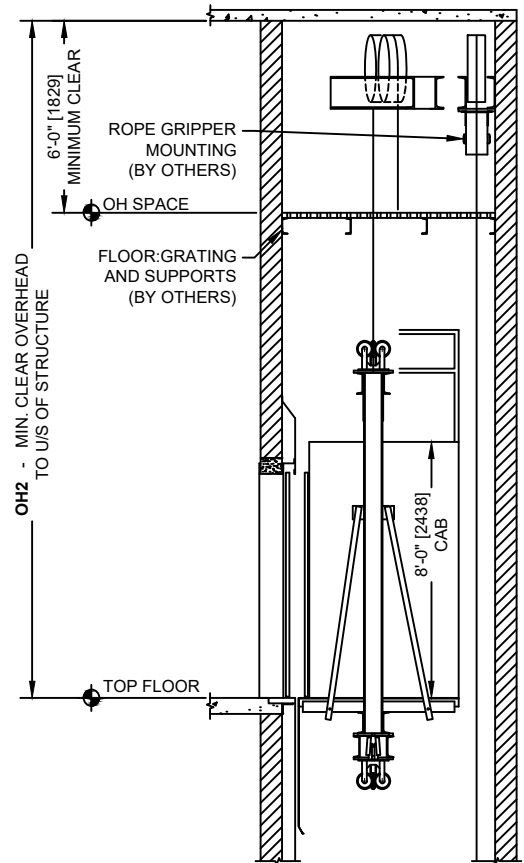


# BASEMENT GEARED TRACTION DESIGN GUIDE

## Passenger, Front Opening, CWT at Rear, Machine at Side



**HOISTWAY SECTION  
(BASEMENT SET MACHINE  
WITH ROPE GRIPPER MOUNTING)**



**HOISTWAY SECTION  
(ROPE GRIPPER MOUNTED  
BELOW SHEAVE STEEL)**

PIT AND OVERHEAD DIMENSIONS			
RATED SPEED fpm [m/s]	PIT DEPTH	MINIMUM OVERHEAD (MACHINE MOUNTED ROPE GRIPPER)	MINIMUM OVERHEAD (OVERHEAD MOUNTED ROPE GRIPPER)
	P	OH1	OH2
100 - 200 fpm [.50 - 1.00 m/s]	5'-6" [1676]	16'-2" [4928]	20'-2" [6147]
250 - 350 fpm [1.25 - 1.75 m/s]	5'-8" [1727]	16'-9" [5105]	20'-9" [6325]
400 fpm [2.00 m/s]	6'-0" [1829]	17'-3" [5258]	21'-3" [6477]
450 fpm * [2.25 m/s]	6'-8" [2032]	18'-3" [5563]	22'-3" [6782]
500 fpm * [2.50 m/s]	6'-8" [2032]	18'-6" [5639]	22'-6" [6858]

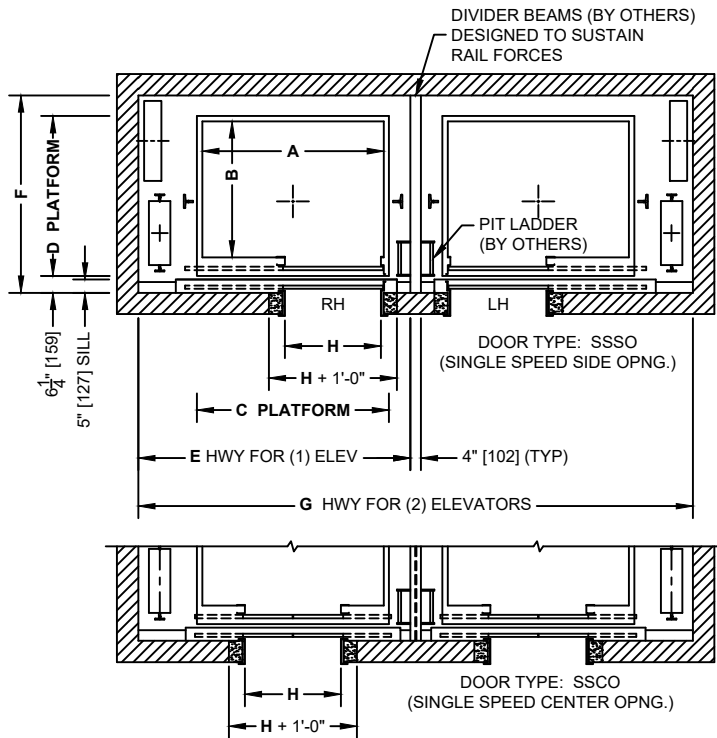
Overhead dimensions (OH) are based on an 8'-0" [2438mm] cab height with a 7'-0" [2134mm] door. For 9'-0" [2745] cab use OH + 1'-0" [305]. For 10'-0" [3050] cab use OH + 2'-0" [610].

\* Additional width will be required for machine room and hoistway.

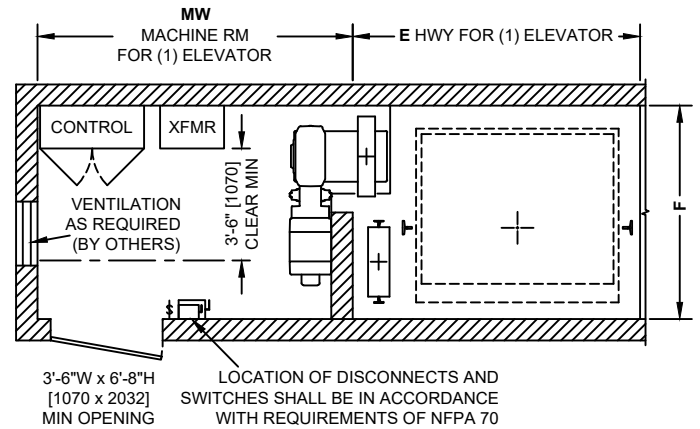


## BASEMENT GEARED TRACTION DESIGN GUIDE

### Passenger, Front Opening, CWT at Side, Machine at Side



**HOISTWAY PLAN**



**MACHINE ROOM PLAN**

#### NOTES:

1. Dimensions shown are based on the H-W GT series BS flange mount machines, standard equipment sizes and capacities for typical building installations and should only be used for preliminary planning. Contact H-W for additional information before proceeding with construction or for assistance with existing or special conditions.
2. Dimensional data complies with the ASME A17.1 / CSA B44 Safety Code for Elevators and Escalators. State or local codes must be used if they differ from national code.
3. Interior cab dimensions may vary depending on the interior finishes. The platform and hoistway sizes should be increased accordingly for extra thick cab finishes.
4. Counterweight safeties are required if there is "occupied space" below the pit. Counterweight safeties are not an option with this configuration.

#### HOISTWAY AND MACHINE ROOM DIMENSIONS

CAPACITY lb [kg]	INSIDE AREA (MAX SF ALLOWED PER CODE)	H CLEAR OPENING WIDTH ft [mm]	DOOR TYPE	MINIMUM CLEAR CAB INSIDE		PLATFORM SIZE		HOISTWAY SIZE (NON-SEISMIC)			HOISTWAY SIZE (SEISMIC ZONE 2 OR GREATER)			MACH ROOM
				A WIDTH ft [mm]	B DEPTH ft [mm]	C WIDTH ft [mm]	D DEPTH ft [mm]	E CLEAR WIDTH ft [mm]	F CLEAR DEPTH ft [mm]	G (DUPLEX) WALL TO WALL ft [mm]	E CLEAR WIDTH ft [mm]	F CLR DEPTH ft [mm]	G (DUPLEX) WALL TO WALL ft [mm]	
2,000 [900]	24.2 [2.25]	3'-0" [914]	SSSO (a)	5'-8" [1727]	4'-3" [1295]	6'-0" [1829]	5'-0" [1524]	8'-4" [2540]	6'-10" [2083]	17'-0" [5182]	8'-6" [2591]	6'-10" [2083]	17'-4" [5283]	10'-0" [3048]
2,500 [1160]	29.1 [2.70]	3'-6" [1067]	SSSO (b) SSCO (a)	6'-8" [2032]	4'-3" [1295]	7'-0" [2134]	5'-0" [1524]	9'-4" [2845]	6'-10" [2083]	19'-0" [5791]	9'-6" [2896]	6'-10" [2083]	19'-4" [5893]	10'-0" [3048]
3,000 [1380]	33.7 [3.13]	3'-6" [1067]	SSSO (b) SSCO (a)	6'-8" [2032]	4'-9" [1448]	7'-0" [2134]	5'-6" [1676]	9'-4" [2845]	7'-0" [2134]	19'-0" [5791]	9'-6" [2896]	7'-0" [2134]	19'-4" [5893]	10'-0" [3048]
3,500 [1600]	38.0 [3.53]	3'-6" [1067]	SSSO (c) SSCO (b)	6'-8" [2032]	5'-5" [1651]	7'-0" [2134]	6'-2" [1880]	9'-4" [2845]	7'-4" [2235]	19'-0" [5791]	9'-6" [2896]	7'-4" [2235]	19'-4" [5893]	10'-6" [3200]
4,000 [1815]	42.2 [3.92]	3'-6" [1067] 4'-0" [1219]	SSSO (c) SSCO (c)	7'-8" [2337]	5'-5" [1651]	8'-0" [2438]	6'-2" [1880]	10'-4" [3150]	7'-4" [2235]	21'-0" [6401]	10'-6" [3200]	7'-4" [2235]	21'-4" [6502]	10'-6" [3200]

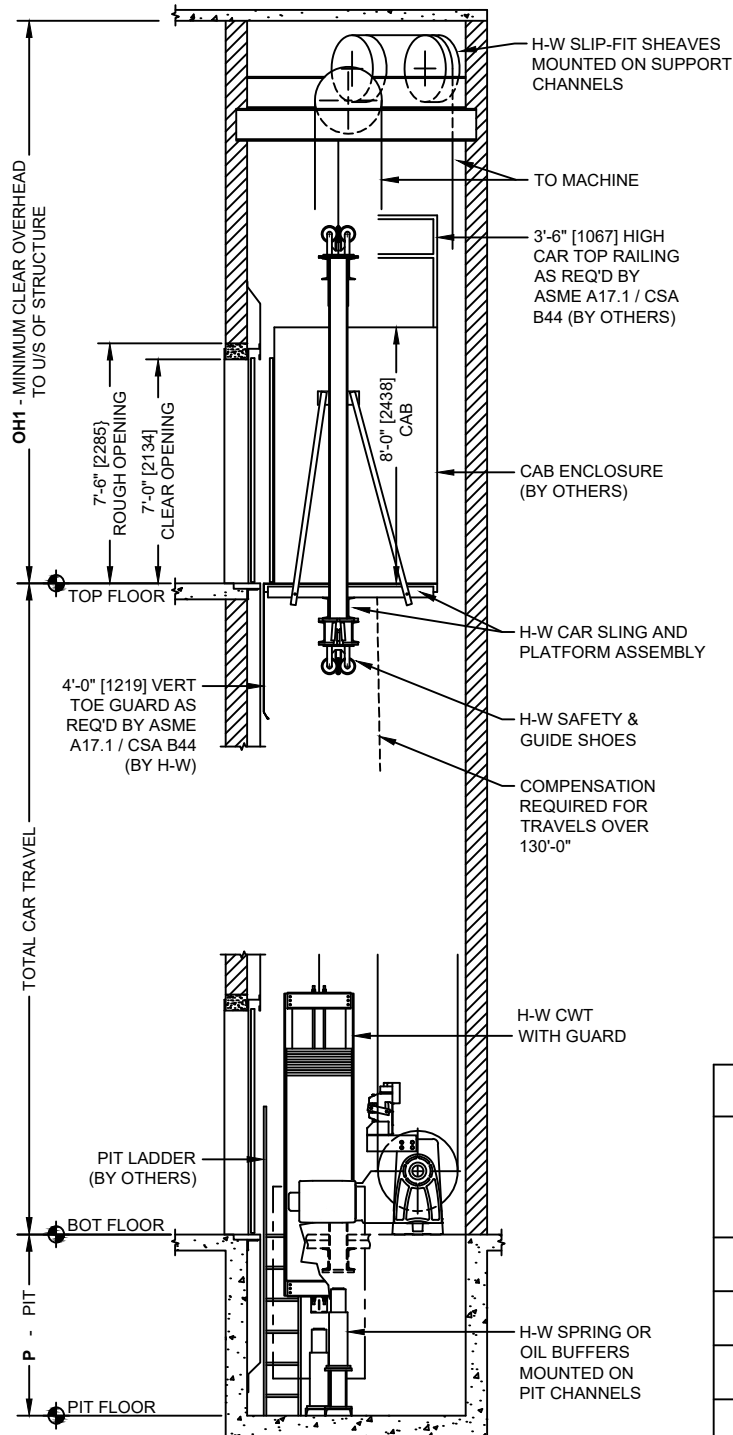
- a. These car dimensions and entrance types provide wheelchair accessibility.
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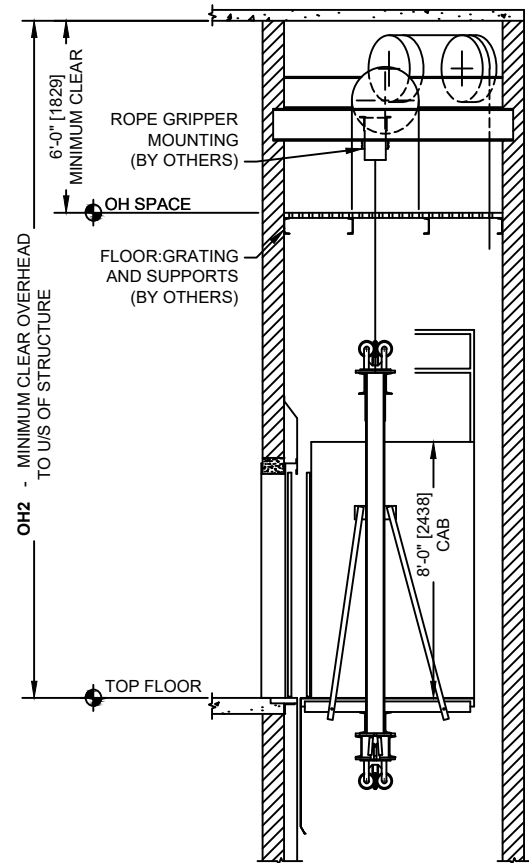


## BASEMENT GEARED TRACTION DESIGN GUIDE

### Passenger, Front Opening, CWT at Side, Machine at Side



**HOISTWAY SECTION  
(BASEMENT SET MACHINE  
WITH ROPE GRIPPER MOUNTING)**



**HOISTWAY SECTION  
(ROPE GRIPPER MOUNTED  
BELOW SHEAVE STEEL)**

PIT AND OVERHEAD DIMENSIONS			
RATED SPEED fpm [m/s]	PIT DEPTH	MINIMUM OVERHEAD (MACHINE MOUNTED ROPE GRIPPER)	MINIMUM OVERHEAD (OVERHEAD MOUNTED ROPE GRIPPER)
	P	OH1	OH2
100 - 200 fpm [.50 - 1.00 m/s]	5'-6" [1676]	16'-5" [5004]	20'-5" [6223]
250 - 350 fpm [1.25 - 1.75 m/s]	5'-8" [1727]	17'-0" [5182]	21'-0" [6401]
400 fpm [2.00 m/s]	6'-0" [1829]	17'-6" [5334]	21'-6" [6553]
450 fpm * [2.25 m/s]	6'-8" [2032]	18'-6" [5639]	22'-6" [6858]
500 fpm * [2.50 m/s]	6'-8" [2032]	18'-9" [5715]	22'-9" [6934]

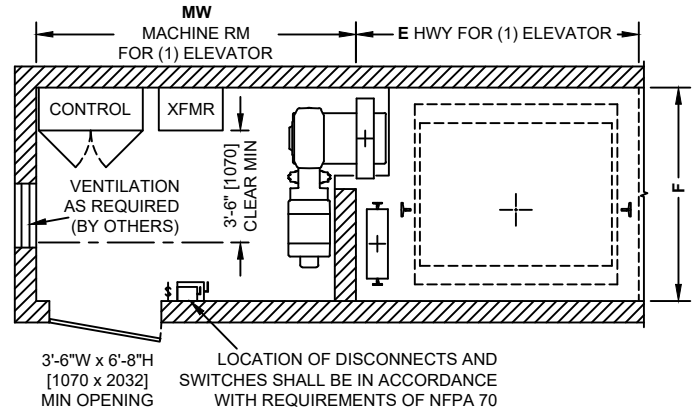
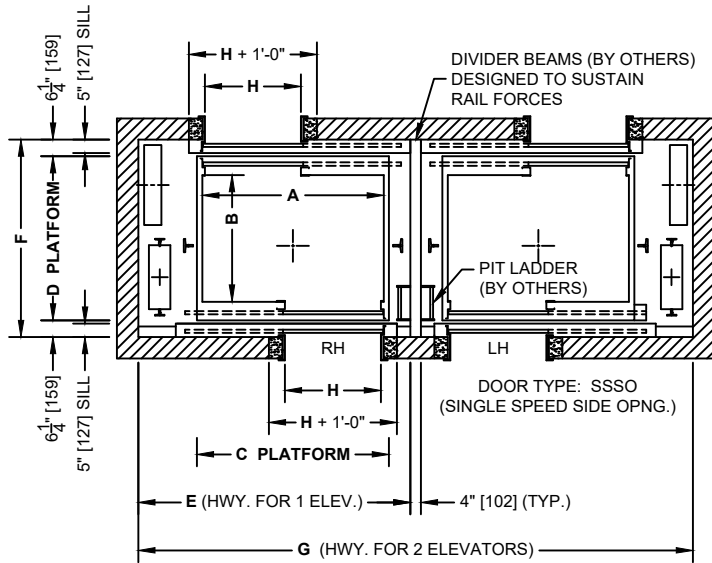
Overhead dimensions (OH) are based on an 8'-0" [2438mm] cab height with a 7'-0" [2134mm] door. For 9'-0" [2745] cab use OH + 1'-0" [305]. For 10'-0" [3050] cab use OH + 2'-0" [610].

\* Additional width will be required for machine room and hoistway.



## BASEMENT GEARED TRACTION DESIGN GUIDE

### Passenger, Front & Rear Opening, CWT at Side, Machine at Side



**MACHINE ROOM PLAN**

**HOISTWAY PLAN**

#### NOTES:

1. Dimensions shown are based on the H-W GT series BS flange mount machines, standard sizes and capacities for typical building installations and should only be used for preliminary planning. Contact H-W for additional information before proceeding with construction or for assistance with existing or special conditions.
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4. Counterweight safeties are required if there is "occupied space" below the pit. Counterweight safeties are not an option with this configuration.

**HOISTWAY AND MACHINE ROOM DIMENSIONS**

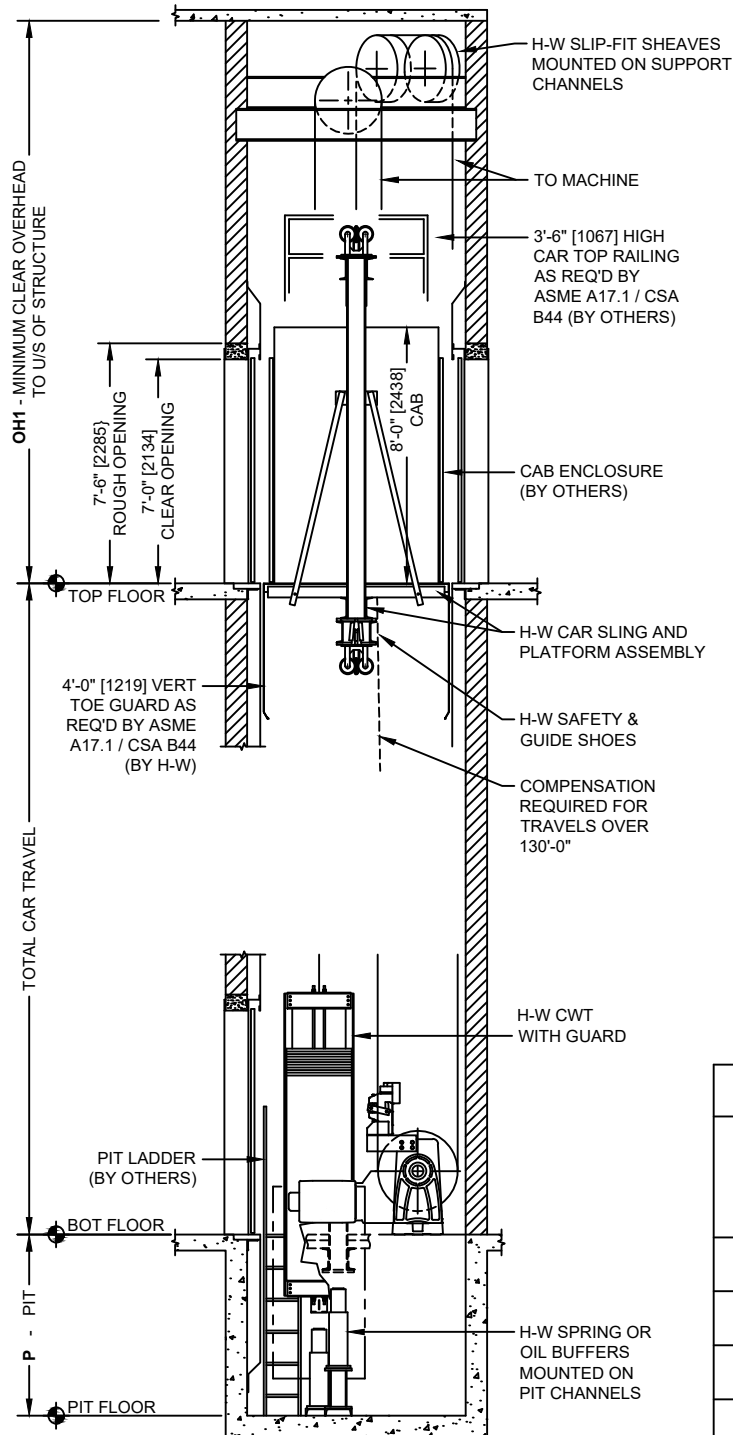
CAPACITY lb [kg]	INSIDE AREA (MAX SF ALLOWED PER CODE)	H CLEAR OPENING WIDTH ft [mm]	DOOR TYPE	MINIMUM CLEAR CAB INSIDE		PLATFORM SIZE		HOISTWAY SIZE (NON-SEISMIC)			HOISTWAY SIZE (SEISMIC ZONE 2 OR GREATER)			MACH ROOM
				A WIDTH ft [mm]	B DEPTH ft [mm]	C WIDTH ft [mm]	D DEPTH ft [mm]	E CLEAR WIDTH ft [mm]	F CLEAR DEPTH ft [mm]	G (DUPLEX) WALL TO WALL ft [mm]	E CLEAR WIDTH ft [mm]	F CLR DEPTH ft [mm]	G (DUPLEX) WALL TO WALL ft [mm]	
2,000 [900]	24.2 [2.25]	3'-0" [914]	SSSO (a)	5'-8" [1727]	4'-4" [1321]	6'-0" [1829]	5'-6 1/2" [1689]	8'-6" [2591]	6'-7" [2007]	17'-4" [5283]	8'-8" [2641]	6'-7" [2007]	17'-8" [5384]	10'-0" [3048]
2,500 [1160]	29.1 [2.70]	3'-6" [1067]	SSSO (b)	6'-8" [2032]	4'-4" [1321]	7'-0" [2134]	5'-6 1/2" [1689]	9'-6" [2896]	6'-7" [2007]	19'-4" [5893]	9'-8" [2946]	6'-7" [2007]	19'-8" [5994]	10'-0" [3048]
3,000 [1380]	33.7 [3.13]	3'-6" [1067]	SSSO (b)	6'-8" [2032]	4'-9" [1448]	7'-0" [2134]	5'-11 1/2" [1816]	9'-6" [2896]	7'-0" [2134]	19'-4" [5893]	9'-8" [2946]	7'-0" [2134]	19'-8" [5994]	10'-0" [3048]
3,500 [1600]	38.0 [3.53]	3'-6" [1067]	SSSO (c)	6'-8" [2032]	5'-5" [1651]	7'-0" [2134]	6'-7 1/2" [2019]	9'-6" [2896]	7'-8" [2337]	19'-4" [5893]	9'-8" [2946]	7'-8" [2337]	19'-8" [5994]	10'-6" [3200]
4,000 [1815]	42.2 [3.92]	3'-6" [1067]	SSSO (c)	7'-8" [2337]	5'-5" [1651]	8'-0" [2438]	6'-7 1/2" [2019]	10'-6" [3200]	7'-8" [2337]	21'-4" [6502]	10'-8" [3251]	7'-8" [2337]	21'-8" [6603]	10'-6" [3200]

- a. These car dimensions and entrance types provide wheelchair accessibility.
- b. These car dimensions and entrance types provide wheelchair accessibility and accommodate an ambulance type stretcher of (76"x24") in the horizontal position.
- c. These car dimensions and entrance types provide wheelchair accessibility and accommodate an ambulance type stretcher of (84"x24") in the horizontal position as required by the IBC.

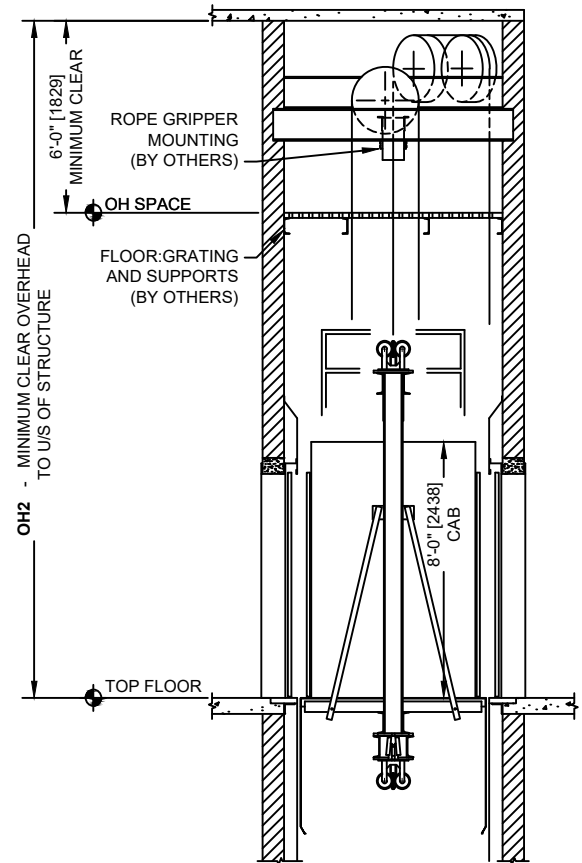


# BASEMENT GEARED TRACTION DESIGN GUIDE

## Passenger, Front & Rear Opening, CWT at Side, Machine at Side



**HOISTWAY SECTION  
(BASEMENT SET MACHINE  
WITH ROPE GRIPPER MOUNTING)**



**HOISTWAY SECTION  
(ROPE GRIPPER MOUNTED  
BELOW SHEAVE STEEL)**

PIT AND OVERHEAD DIMENSIONS			
RATED SPEED fpm [m/s]	PIT DEPTH	MINIMUM OVERHEAD (MACHINE MOUNTED ROPE GRIPPER)	MINIMUM OVERHEAD (OVERHEAD MOUNTED ROPE GRIPPER)
	P	OH1	OH2
100 - 200 fpm [.50 - 1.00 m/s]	5'-6" [1676]	16'-5" [5004]	20'-5" [6223]
250 - 350 fpm [1.25 - 1.75 m/s]	5'-8" [1727]	17'-0" [5182]	21'-0" [6401]
400 fpm [2.00 m/s]	6'-0" [1829]	17'-6" [5334]	21'-6" [6553]
450 fpm * [2.25 m/s]	6'-8" [2032]	18'-6" [5639]	22'-6" [6858]
500 fpm * [2.50 m/s]	6'-8" [2032]	18'-9" [5715]	22'-9" [6934]

Overhead dimensions (OH) are based on an 8'-0" [2438mm] cab height with a 7'-0" [2134mm] door. For 9'-0" [2745] cab use OH + 1'-0" [305]. For 10'-0" [3050] cab use OH + 2'-0" [610].

\* Additional width will be required for machine room and hoistway.