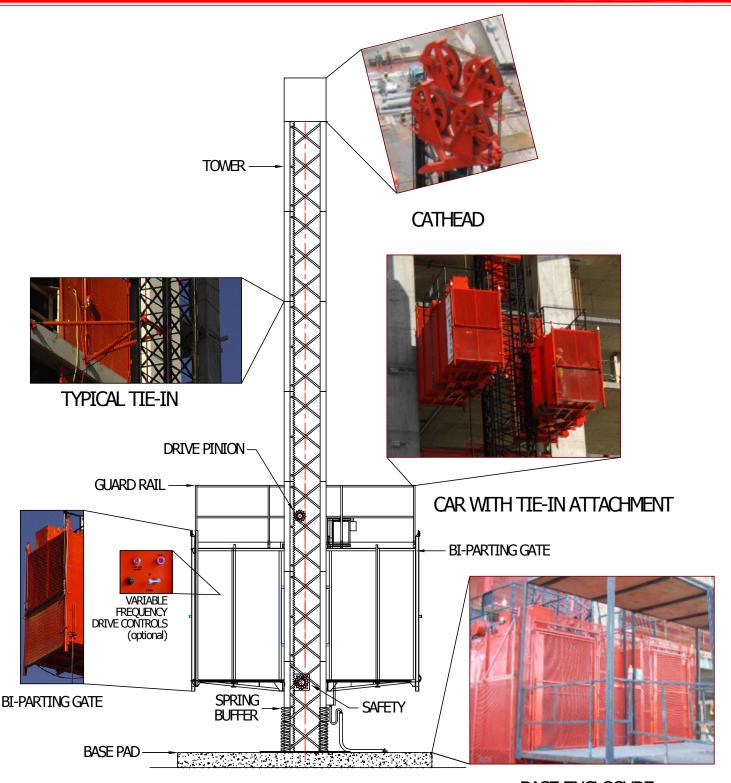
# **US60-2R**

## **Dual Car Personnel/Material Hoist**



**HOIST ELEVATION** 

BASE ENCLOSURE

P1 SCALE:3/16=1'-0



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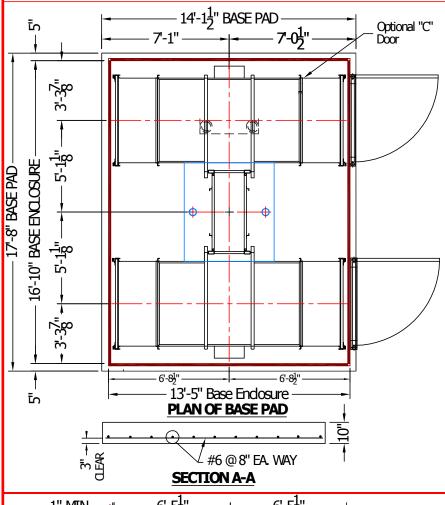


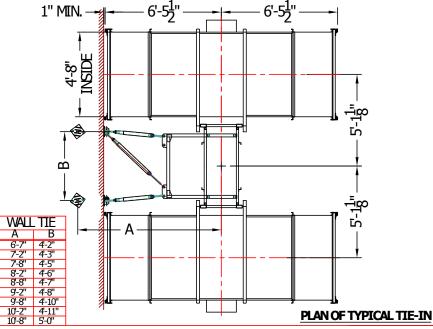
METRO ELEVATOR's CHAMPION elevators meet industry codes (ANSI and OSHA) and can be certified to industry standards such as ABS, DNV, and USCG.



## **US60-2R**

### **Dual Car Personnel/Material Hoist**





Tie-in intervals (maximum)  Electrical Power  30' (9.14m)  Electrical Power  35 HP (26 kW)  Power Required  37.5 KVA, 480 VAC, 60 Hz, 3 Ø per car  Motor Control  Variable Frequency Drive (optional)  Full load current  Traveling Cable  Multi-Conductor Type W-Tower Height Plus 30R (9.14m)  Brake  Spring set, Electrical Release Multiple Disc Brake  Safety overspeed governor  Centrifugally Actuated Multiple Friction Disc Brake  Manual Brake Release  Stopping distance accuracy  ±.6"(± 15.24 mm)  Brake torque  175 ft/lbs. (102Nm)  Weight of counterweight  5400 lbs. (2450 kg.) per car  Counterweight wire ropes	Maximum passengers	30
Car Weight 6,600 lbs (2944 kg) per car  Total base weight 28,910 lbs. (13,113 kg.)  Base disconnect Circuit Breaker in NEMA 4 Enclosure  Electrical outlet 120 vac in Car  Weight of tower 485 lbs (220 kg)  Wall ties Adjustable strut  Landing gates Swinging gates  Maximum car speed 150ff/min (45.72 m/min)  Interior dimensions 12.4"Lx4".8"Wx7.2"H(3.8 mL x 1.4 mWx 2.2 mH)  Maximum tower height 900' (274.32m)  Dimensions of tower 56" W x 28" L x 59.4" H (1.42 m x .71 m x 1.52 m)  Tie-in intervals (maximum) 30' (9.14m)  Electrical Power 35 HP (26 kW)  Power Required 37.5 kVA, 480 VAC, 60 Hz , 3 Ø per car  Motor Control Variable Frequency Drive (optional)  Full load current 37.5 Amps per car  Traveling Cable Multi-Conductor Type W-Tower Height Plus 30R (9.14m)  Brake Spring set, Electrical Release Multiple Disc Brake  Safety overspeed governor Centrifugally Actuated Multiple Friction Disc Brake  Safety overspeed governor Manual Brake Release  Stopping distance accuracy ± 6."(± 15.24 mm)  Brake torque 175 ft/lbs. (102Nm)  Weight of counterweight 5400 lbs. (2450 kg.) per car  Counterweight wire ropes (2) 5/8" (15.88 mm) 6x25 xIP-IWRC	Elevator drive	Rack and pinion
Total base weight  Base disconnect  Circuit Breaker in NEMA 4 Enclosure  Electrical outlet  120 vac in Car  Weight of tower  485 lbs (220 kg)  Wall ties  Adjustable strut  Landing gates  Maximum car speed  150ft/min (45.72 m/min)  Interior dimensions  12-4"Lx4"-8"Wx7-2"H(3.8 mL x 1.4 mWx 2.2 mH)  Maximum tower height  Dimensions of tower  56" W x 28" L x 59.4" H (1.42 m x .71 m x 1.52 m)  Tie-in intervals (maximum)  Electrical Power  Power Required  37.5 KVA, 480 VAC, 60 Hz , 3 Ø per car  Motor Control  Variable Frequency Drive (optional)  Full load current  Traveling Cable  Multi-Conductor Type W-Tower Height Plus 30Ft (9.14m)  Brake  Spring set, Electrical Release Multiple Disc Brake  Safety overspeed governor  Emergency Iowering  Manual Brake Release  Stopping distance accuracy  ± 6"(± 15.24 mm)  Brake torque  175 ft/lbs. (102Nm)  Weight of counterweight  5400 lbs. (2450 kg.) per car	Capacity	6,000 lbs (2722 kg) per car
Base disconnect  Circuit Breaker in NEMA 4 Enclosure  Electrical outlet  120 vac in Car  Weight of tower  485 lbs (220 kg)  Wall ties  Adjustable strut  Landing gates  Maximum car speed  150ft/min (45.72 m/min)  Interior dimensions  12-4"Lx4"-8"Wx7"-2"H(3.8 mL x 1.4 mWx 2.2 mH)  Maximum tower height  900" (274.32m)  Dimensions of tower  56" W x 28" L x 59.4" H (1.42 m x .71 m x 1.52 m)  Tie-in intervals (maximum)  Electrical Power  900" (274.32m)  Side of the control	Car Weight	6,600 lbs (2944 kg) per car
Electrical outlet  Weight of tower  Wall ties  Adjustable strut  Landing gates  Maximum car speed  150ft/min (45.72 m/min)  Interior dimensions  12-4"Lx4-8"Wx7-2"H(3.8 mL x 1.4 mWx 2.2 mH)  Maximum tower height  900' (274.32m)  Dimensions of tower  56" W x 28" L x 59.4" H (1.42 m x .71 m x 1.52 m)  Tie-in intervals (maximum)  Electrical Power  75 KVA, 480 VAC, 60 Hz , 3 Ø per car  Motor Control  Variable Frequency Drive (optional)  Full load current  77.5 Amps per car  Traveling Cable  Multi-Conductor Type W-Tower Height Plus 30Ft (9.14m)  Brake  Spring set, Electrical Release Multiple Disc Brake  Safety overspeed governor  Emergency lowering  Manual Brake Release  Stopping distance accuracy  ±.6"(± 15.24 mm)  Brake torque  175 ft/lbs. (102Nm)  Weight of counterweight  5400 lbs. (2450 kg.) per car  Counterweight wire ropes	Total base weight	28,910 lbs. (13,113 kg.)
Weight of tower  Wall ties  Landing gates  Maximum car speed  150ft/min (45.72 m/min)  Interior dimensions  12-4"Lx4-8"Wx7-2"H(3.8 mL x 1.4 mW x 2.2 mH)  Maximum tower height  900' (274.32m)  Dimensions of tower  56" W x 28" L x 59.4" H (1.42 m x .71 m x 1.52 m)  Tie-in intervals (maximum)  Electrical Power  756" W x 28" L x 59.4" H (1.42 m x .71 m x 1.52 m)  Shape of the second of the secon	Base disconnect	Circuit Breaker in NEMA 4 Enclosure
Wall ties Adjustable strut Landing gates Swinging gates Maximum car speed 150ft/min (45.72 m/min) Interior dimensions 12-4"Lx4"-8"Wk7-2"H(3.8 mL x 1.4 mWx 2.2 mH) Maximum tower height 900" (274.32m) Dimensions of tower 56" W x 28" L x 59.4" H (1.42 m x .71 m x 1.52 m) Tie-in intervals (maximum) 30' (9.14m) Electrical Power 35 HP (26 kW) Power Required 37.5 KVA, 480 VAC, 60 Hz , 3 Ø per car Motor Control Variable Frequency Drive (optional) Full load current 37.5 Amps per car Traveling Cable Multi-Conductor Type W-Tower Height Plus 30Ft (9.14m) Brake Spring set, Electrical Release Multiple Disc Brake Safety overspeed governor Centrifugally Actuated Multiple Friction Disc Brake Emergency lowering Manual Brake Release Stopping distance accuracy ±6"(± 15.24 mm) Brake torque 175 ft/lbs. (102Nm) Weight of counterweight 5400 lbs. (2450 kg.) per car	Electrical outlet	120 vac in Car
Landing gates  Maximum car speed  Interior dimensions  12-4"Lx4"-8"Wx7-2"H(3.8 mL x 1.4 mWx 2.2 mH)  Maximum tower height  Dimensions of tower  56" W x 28" L x 59.4" H (1.42 m x .71 m x 1.52 m)  Tie-in intervals (maximum)  Electrical Power  Power Required  37.5 KVA, 480 VAC, 60 Hz , 3 Ø per car  Motor Control  Variable Frequency Drive (optional)  Full load current  Traveling Cable  Multi-Conductor Type W-Tower Height Plus 30Ft (9.14m)  Brake  Spring set, Electrical Release Multiple Disc Brake  Safety overspeed governor  Emergency Iowering  Manual Brake Release  Stopping distance accuracy  ±.6"(± 15.24 mm)  Brake torque  175 ft/lbs. (102Nm)  Weight of counterweight  5400 lbs. (2450 kg.) per car  Counterweight wire ropes	Weight of tower	485 lbs (220 kg)
Maximum car speed Interior dimensions Interior dimensions I2-4"Lx4"-8"Wx7-2"H(3.8 mL x 1.4 mW x 2.2 mH) Maximum tower height Dimensions of tower 56" W x 28" L x 59.4" H (1.42 m x .71 m x 1.52 m) Tie-in intervals (maximum) Signature Tie-in intervals (maximum) Iectrical Power 30' (9.14m) Signature Variable Frequency Drive (optional) Full load current Traveling Cable Multi-Conductor Type W-Tower Height Plus 30Pt (9.14m) Brake Spring set, Electrical Release Multiple Disc Brake Safety overspeed governor Centrifugally Actuated Multiple Friction Disc Brake Manual Brake Release Stopping distance accuracy Emergency Iowering Traveling Cable Stopping distance accuracy Lef" (± 15.24 mm) Traveling Cable Traveling Cable Sitopping distance accuracy Lef" (± 15.24 mm) Traveling Cable Traveling Cable Sitopping distance accuracy Lef" (± 15.24 mm) Traveling Cable Traveling Cable Sitopping distance accuracy Lef" (± 15.24 mm) Traveling Cable Traveling Cable Traveling Cable Spring set, Electrical Release Sitopping distance accuracy Lef" (± 15.24 mm) Traveling Cable Traveling Cable Traveling Cable Spring set, Electrical Release Sitopping distance accuracy Lef" (± 15.24 mm) Traveling Cable Traveling Cable Traveling Cable Spring set, Electrical Release Spring set, Electrical Release Spring set, Electrical Release Traveling Cable Traveling Cable Traveling Cable Traveling Cable Traveling Cable Spring Straveling Traveling Cable	Wall ties	Adjustable strut
Interior dimensions  12-4"Lx4'-8"Wx7-2"H(3.8 mL x 1.4 mWx 2.2 mH)  Maximum tower height  900' (274.32m)  Dimensions of tower  56" W x 28" L x 59.4" H (1.42 m x .71 m x 1.52 m)  Tie-in intervals (maximum)  30' (9.14m)  Electrical Power  35 HP (26 kW)  Power Required  37.5 KVA, 480 VAC, 60 Hz , 3 Ø per car  Wotor Control  Variable Frequency Drive (optional)  Full load current  37.5 Amps per car  Traveling Cable  Multi-Conductor Type W-Tower Height Plus 30R (9.14m)  Brake  Spring set, Electrical Release Multiple Disc Brake  Safety overspeed governor  Emergency lowering  Manual Brake Release  Stopping distance accuracy  ±.6"(± 15.24 mm)  Brake torque  175 ft/lbs. (102Nm)  Weight of counterweight  5400 lbs. (2450 kg.) per car  Counterweight wire ropes	Landing gates	Swinging gates
Maximum tower height 900' (274.32m)  Dimensions of tower 56" W x 28" L x 59.4" H (1.42 m x .71 m x 1.52 m)  Tie-in intervals (maximum) 30' (9.14m)  Electrical Power 35 HP (26 kW)  Power Required 37.5 KVA, 480 VAC, 60 Hz , 3 Ø per car  Motor Control Variable Frequency Drive (optional)  Full load current 37.5 Amps per car  Traveling Cable Multi-Conductor Type W-Tower Height Plus 30Pt (9.14m)  Brake Spring set, Electrical Release Multiple Disc Brake  Safety overspeed governor Centrifugally Actuated Multiple Friction Disc Brake  Emergency lowering Manual Brake Release  Stopping distance accuracy ±.6"(± 15.24 mm)  Brake torque 175 ft/lbs. (102Nm)  Weight of counterweight 5400 lbs. (2450 kg.) per car  Counterweight wire ropes (2) 5/8" (15.88 mm) 6x25 xIP-IWRC	Maximum car speed	150ft/min (45.72 m/min)
Dimensions of tower  56" W x 28" L x 59.4" H (1.42 m x .71 m x 1.52 m)  Tie-in intervals (maximum)  30' (9.14m)  Electrical Power  35 HP (26 kW)  Power Required  37.5 KVA, 480 VAC, 60 Hz , 3 Ø per car  Motor Control  Variable Frequency Drive (optional)  Full load current  37.5 Amps per car  Traveling Cable  Multi-Conductor Type W-Tower Height Plus 30Pt (9.14m)  Brake  Spring set, Electrical Release Multiple Disc Brake  Safety overspeed governor  Centrifugally Actuated Multiple Friction Disc Brake  Manual Brake Release  Stopping distance accuracy  ± 6"(± 15.24 mm)  Brake torque  175 ft/lbs. (102Nm)  Weight of counterweight  5400 lbs. (2450 kg.) per car  Counterweight wire ropes	Interior dimensions	12'-4"Lx4'-8"Wx7'-2"H(3.8 mL x 1.4 mW x 2.2 mH)
Tie-in intervals (maximum)  Blectrical Power  30' (9.14m)  Blectrical Power  35 HP (26 kW)  Power Required  37.5 KVA, 480 VAC, 60 Hz, 3 Ø per car  Motor Control  Variable Frequency Drive (optional)  Full load current  37.5 Amps per car  Traveling Cable  Multi-Conductor Type W-Tower Height Plus 30R (9.14m)  Brake  Spring set, Electrical Release Multiple Disc Brake  Safety overspeed governor  Centrifugally Actuated Multiple Friction Disc Brake  Emergency lowering  Manual Brake Release  Stopping distance accuracy  ±.6"(± 15.24 mm)  Brake torque  175 ft/lbs. (102Nm)  Weight of counterweight  5400 lbs. (2450 kg.) per car  Counterweight wire ropes  (2) 5/8" (15.88 mm) 6x25 xIP-IWRC	Maximum tower height	900' (274.32m)
Electrical Power  35 HP (26 kW)  Power Required  37.5 KVA, 480 VAC, 60 Hz, 3 Ø per car  Motor Control  Variable Frequency Drive (optional)  Full load current  37.5 Amps per car  Multi-Conductor Type W-Tower Height Plus 30Ft (9.14m)  Brake  Spring set, Electrical Release Multiple Disc Brake  Safety overspeed governor  Emergency lowering  Manual Brake Release  Stopping distance accuracy  ±.6"(± 15.24 mm)  Brake torque  175 ft/lbs. (102Nm)  Weight of counterweight  5400 lbs. (2450 kg.) per car  Counterweight wire ropes  (2) 5/8" (15.88 mm) 6x25 xlP-IWRC	Dimensions of tower	56" W x 28" L x 59.4" H (1.42 m x .71 m x 1.52 m)
Power Required  37.5 KVA, 480 VAC, 60 Hz, 3 Ø per car  Motor Control  Variable Frequency Drive (optional)  Full load current  37.5 Amps per car  Traveling Cable  Multi-Conductor Type W-Tower Height Plus 30R (9.14m)  Brake  Spring set, Electrical Release Multiple Disc Brake  Safety overspeed governor  Emergency lowering  Manual Brake Release  Stopping distance accuracy  ±.6"(± 15.24 mm)  Brake torque  175 ft/lbs. (102Nm)  Weight of counterweight  5400 lbs. (2450 kg.) per car  Counterweight wire ropes	Tie-in intervals (maximum)	30' (9.14m)
Motor Control Variable Frequency Drive (optional)  Full load current 37.5 Amps per car  Traveling Cable Multi-Conductor Type W-Tower Height Plus 30R (9.14m)  Brake Spring set, Electrical Release Multiple Disc Brake  Safety overspeed governor Centrifugally Actuated Multiple Friction Disc Brake  Emergency lowering Manual Brake Release  Stopping distance accuracy ±.6"(± 15.24 mm)  Brake torque 175 ft/lbs. (102Nm)  Weight of counterweight 5400 lbs. (2450 kg.) per car  Counterweight wire ropes (2) 5/8" (15.88 mm) 6x25 xIP-IWRC	Electrical Power	35 HP (26 kW)
Full load current 37.5 Amps per car  Traveling Cable Multi-Conductor Type W-Tower Height Plus 30Ft (9.14m) Brake Spring set, Electrical Release Multiple Disc Brake Safety overspeed governor Centrifugally Actuated Multiple Friction Disc Brake Manual Brake Release Stopping distance accuracy ±.6"(± 15.24 mm) Brake torque 175 ft/lbs. (102Nm) Weight of counterweight 5400 lbs. (2450 kg.) per car Counterweight wire ropes (2) 5/8" (15.88 mm) 6x25 xlP-IWRC	Power Required	37.5 KVA, 480 VAC, 60 Hz , 3 Ø per car
Traveling Cable Multi-Conductor Type W-Tower Height Plus 30Ft (9.14m) Brake Spring set, Electrical Release Multiple Disc Brake Safety overspeed governor Centrifugally Actuated Multiple Friction Disc Brake Manual Brake Release Stopping distance accuracy ±.6"(± 15.24 mm) Brake torque 175 ft/lbs. (102Nm) Weight of counterweight 5400 lbs. (2450 kg.) per car Counterweight wire ropes (2) 5/8" (15.88 mm) 6x25 xlP-IWRC	Motor Control	Variable Frequency Drive (optional)
Brake Spring set, Electrical Release Multiple Disc Brake Safety overspeed governor Centrifugally Actuated Multiple Friction Disc Brake Emergency lowering Manual Brake Release Stopping distance accuracy ±.6"(± 15.24 mm) Brake torque 175 ft/lbs. (102Nm) Weight of counterweight 5400 lbs. (2450 kg.) per car Counterweight wire ropes (2) 5/8" (15.88 mm) 6x25 xIP-IWRC	Full load current	37.5 Amps per car
Safety overspeed governor Centrifugally Actuated Multiple Friction Disc Brake Emergency lowering Manual Brake Release Stopping distance accuracy ±.6"(± 15.24 mm) Brake torque 175 ft/lbs. (102Nm) Weight of counterweight 5400 lbs. (2450 kg.) per car Counterweight wire ropes (2) 5/8" (15.88 mm) 6x25 xlP-IWRC	Traveling Cable	Multi-Conductor Type W-Tower Height Plus 30Ft (9.14m)
Emergency lowering Manual Brake Release  Stopping distance accuracy ±.6"(± 15.24 mm)  Brake torque 175 ft/lbs. (102Nm)  Weight of counterweight 5400 lbs. (2450 kg.) per car  Counterweight wire ropes (2) 5/8" (15.88 mm) 6x25 xIP-IWRC	Brake	Spring set, Electrical Release Multiple Disc Brake
Stopping distance accuracy	Safety overspeed governor	Centrifugally Actuated Multiple Friction Disc Brake
Brake torque 175 ft/lbs. (102Nm) Weight of counterweight 5400 lbs. (2450 kg.) per car Counterweight wire ropes (2) 5/8" (15.88 mm) 6x25 xIP-IWRC	Emergency lowering	Manual Brake Release
Weight of counterweight 5400 lbs. (2450 kg.) per car  Counterweight wire ropes (2) 5/8" (15.88 mm) 6x25 xIP-IWRC	Stopping distance accuracy	±.6"(± 15.24 mm)
Counterweight wire ropes (2) 5/8" (15.88 mm) 6x25 xIP-IWRC	Brake torque	175 ft/lbs. (102Nm)
	Weight of counterweight	5400 lbs. (2450 kg.) per car
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		,
Length of counterweight ropes 2 x Tower Height Plus 30' (9.14 m)	Length of counterweight ropes	2 x Tower Height Plus 30' (9.14 m)

#### STANDARD BASE UNIT

- Fully assembled enclosed car
- Overspeed governor
- Two manually operated vertically bi-parting car gates0
- Control and limit switches
- 20' of tower for 0 lifting height
- Hot Dipped Galvanized Car & Tower
- Counterweight & cathead Assembly
- Variable Frequency Drive (VFD)
- Base fence enclosure
- Base disconnect box
- Buffer stand and springs
- Power cord guide trailing wheel assembly
- GFI Receptacle in cr
- Hand lever control
- Interior Car Lighting

#### OPTIONAL FEATURES

- Base platform and stairs
- **Building landing gates**
- Landing call station
- automatic control system
- Emergency lighting systems Additional tower sections

- Auxiliary manual hand control provision for opposite hand installation
- Gin Pole with winch for tower erection
- Communication or signal system
- Alarm installation
- Pit light & switch
- Pit stop switch
- Car top light & switch
- Car top receptacle

P2 SCALE:3/16=1'-0"



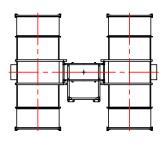
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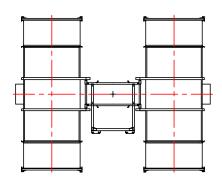


## **US60-2R**

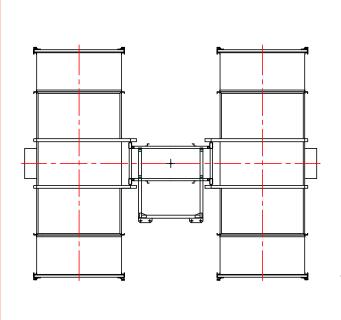
## **Dual Car Personnel/Material Hoist**



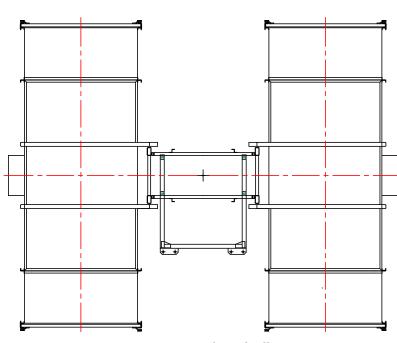
SCALE:3/32=1'-0"



SCALE: 1/8=1'-0"



SCALE:3/16=1'-0"



SCALE:1/4=1'-0"

#### NOTE:

PLEASE CONTACT METRO ELEVATOR FOR ADDITTONAL SCALES THAT ARE NOT SHOWN HERE. COPY THIS SHEET TO A TRANSPARENCY FILM, USE IT FOR LOCATING THE HOIST ON AN EXISTING PAPER PLAN LAYOUT OF THE BUILDING STRUCTURE.

### **OVERLAY TEMPLATE**

P3 SCALE:3/16=1'-0"



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