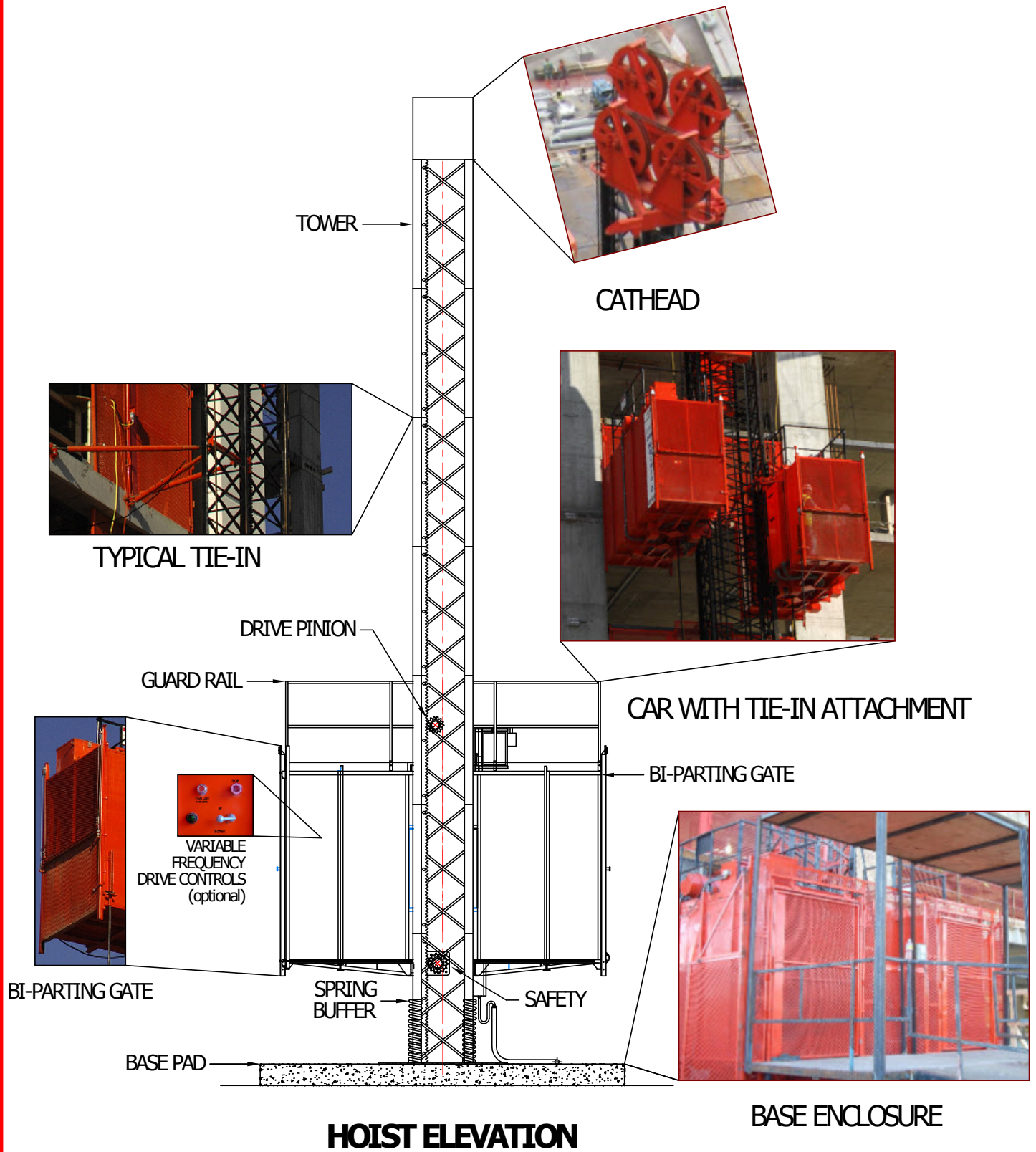


# US80-2R

## Dual Car Personnel/Material Hoist



P1 SCALE: 3/16"=1'-0"



1-800-464-7870  
3110 N. Ritter Ave.  
Indianapolis, IN. 46218  
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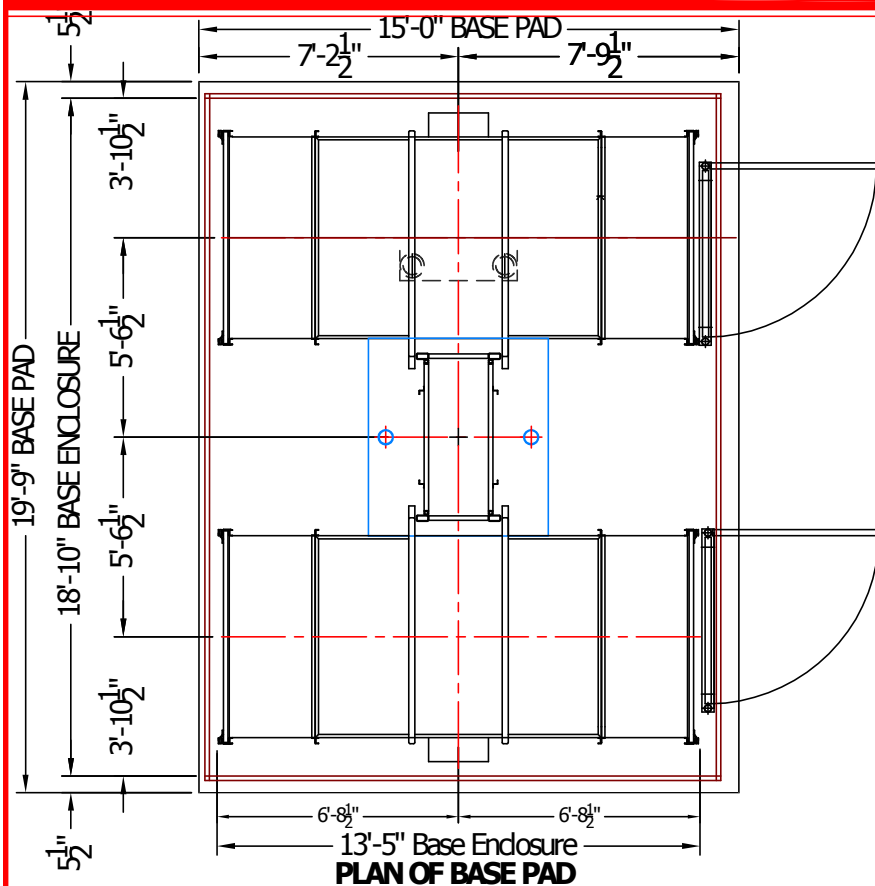


METRO ELEVATOR's CHAMPION elevators meet industry codes (ANSI and OSHA) and can be certified to industry standards such as ABS, DNV, and USCG.

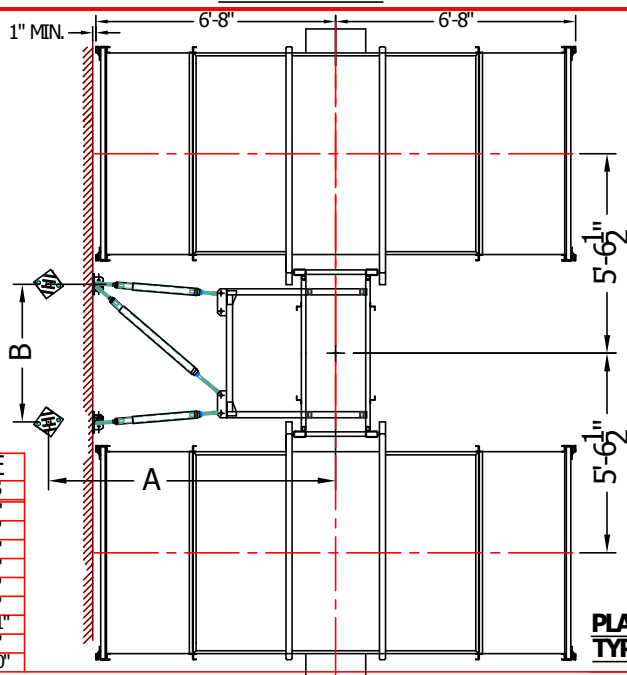


# US80-2R

## Dual Car Personnel/Material Hoist



**SECTION A-A**



| WALL TIE | A      | B |
|----------|--------|---|
| 6'-9"    | 4'-2"  |   |
| 7'-4"    | 5'-9"  |   |
| 7'-10"   | 6'-2"  |   |
| 8'-6"    | 6'-9"  |   |
| 8'-10"   | 7'-0"  |   |
| 9'-4"    | 7'-6"  |   |
| 9'-10"   | 7'-11" |   |
| 10'-4"   | 8'-5"  |   |
| 10'-10"  | 8'-10" |   |

|                               |                                                       |
|-------------------------------|-------------------------------------------------------|
| Maximum passengers            | 40                                                    |
| Elevator drive                | Rack and pinion                                       |
| Capacity                      | 8,000 lbs (2722 kg) ea.                               |
| Car Weight                    | 5800 lbs (2631 kg) ea.                                |
| Total base weight             | 32100 lbs. (14560 kg.)                                |
| Base disconnect               | Circuit Breaker in NEMA 4 Enclosure                   |
| Electrical outlet             | 120 vac in each Car                                   |
| Weight of tower               | 485 lbs (220 kg)                                      |
| Wall ties                     | Adjustable strut                                      |
| Landing gates                 | Swinging gates                                        |
| Maximum car speed             | 150 ft/min (42.7 m/min)                               |
| Interior dimensions           | 13'-0"Lx5'-7"Wx7'-4"H (4.0 m L x 1.7 m W x 2.2 m H)   |
| Maximum tower height          | 900' (274.32m)                                        |
| Dimensions of tower           | 56" W x 28" L x 60" 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                | 62.5 KVA, 480 VAC, 60 Hz, 3 Ø                         |
| 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                  | 2@175 ft/lbs. (102Nm)                                 |
| Weight of counterweight       | 5800 lbs. (2631 kg.) ea.                              |
| Counterweight wire ropes      | (4) 5/8" (15.88 mm) 6x25 xIP-IWRC                     |
| 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 gates
- 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
- Wall Ties
- 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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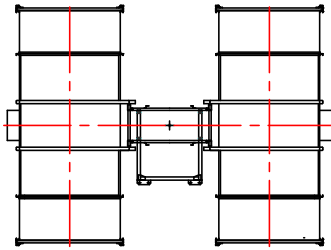


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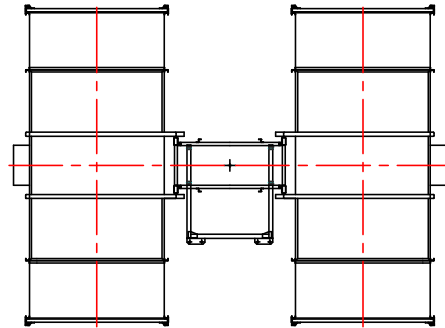


# US80-2R

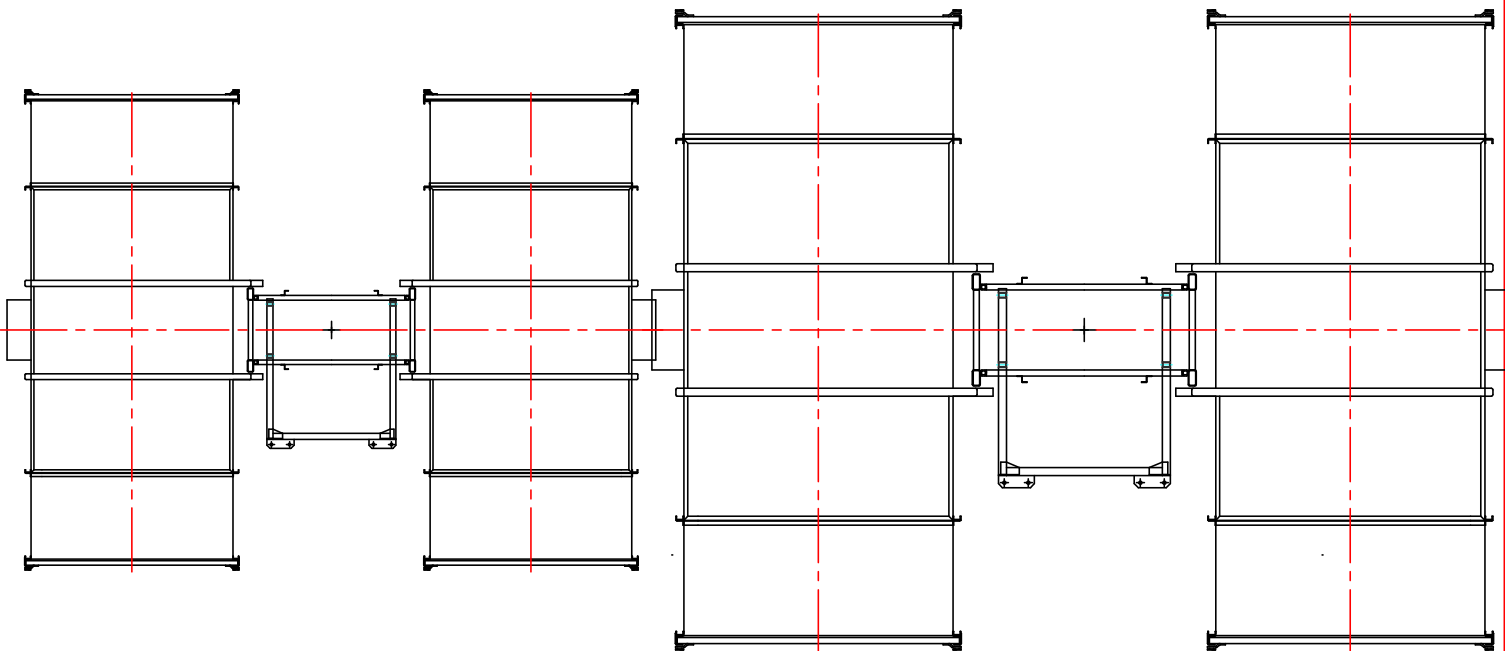
## Dual Car Personnel/Material Hoist



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 ADDITIONAL 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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