



Hollister-Whitney
ELEVATOR CO. LLC

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COMPLETE FIELD SURVEY BOOKLET



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SURVEY INSTRUCTIONS FOR LAYOUT DRAWING CREATION:

1. New Installation: layout drawings by H-W require a set of the job specifications, a set of the architectural and structural drawings, and all applicable information listed on the enclosed Form E-120-1 or E-120-2, whichever is applicable.
2. Modernizations: layout drawings by H-W require thorough field surveys of the existing hoistway and machine room indicating the size and construction of all existing equipment that is to be retained. Use the most applicable survey sheets from this booklet. If architectural drawings, structural drawings, or original elevator installation layout drawings are available then please forward. Fill out all applicable information on the enclosed Form E-120-1 or E-120-2, whichever is applicable.
3. The following Shaft Survey forms depict basic arrangements and it may be necessary to include additional sketches for specialized arrangements such as for corner-posts, basement applications, freight applications, 2:1 roping, etc. Use the most applicable survey sheets and supplement with additional sketches as needed. Please note that "Machine Room Only" layouts also require the car/cwt. guide rail locations and shaft location relative to the machine room walls.
4. For multiple car groupings, be sure to label the car number designations on each form and include a key drawing showing the location relationship of each car within the group. Also indicate whether there is a wall or a divider beam at each side of the shaft.

SURVEY INSTRUCTIONS FOR EQUIPMENT FABRICATION:

1. Fill out the appropriate fabrication surveys for the equipment being ordered.
2. Also fill out shaft survey forms from this booklet if it helps to clarify existing conditions.



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SURVEYS FOR LAYOUT DRAWING CREATION



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LAYOUT DRAWING INFORMATION (FULL LAYOUT)

Company:	Date:
Address:	Job Name:
Contact:	Job Address:
Phone:	Your PO #:
Email:	H-W Contract #:

PLEASE PROVIDE THE FOLLOWING:

- General Specifications, Job Summary, or Scope of Project:** Or if unavailable, fill out [H-W #E-166 Estimation and Order](#) form, which is available online.
- Pre-designed Jobs:** Provide a complete set of architectural and structural drawings.
- Design Build Jobs:** For "design build" jobs that have no architectural or structural drawings available, advise if H-W has complete freedom to determine the hoistway size, pit depth, and overhead height as per our requirements: ☐ Yes ☐ No
- Existing Hoistway / Machine Room:** For existing elevator construction provide a thorough field survey and/or the original elevator installation layout. Indicate hoistway size; door type, size, and hand; machine room size and configuration; all floor heights; pit depth; and clear overhead height. We have various survey forms available in Bulletin #1139 Field Surveys, which is available online.
- Modernization Jobs:** For "modernization" jobs indicate sizes and locations of all equipment that is to be retained. We have various survey forms available in Bulletin #1139 Field Surveys, which is available online. Identify all **existing** elevator equipment that you intend to keep in place:

<input type="checkbox"/> Car rails and brackets	<input type="checkbox"/> CWT. rails and brackets	<input type="checkbox"/> Hoistway door frames and sills
<input type="checkbox"/> Car sling	<input type="checkbox"/> Car platform	<input type="checkbox"/> CWT. frame
<input type="checkbox"/> Safety	<input type="checkbox"/> Governor	<input type="checkbox"/> Tension weight
<input type="checkbox"/> Car shoes	<input type="checkbox"/> CWT. shoes	<input type="checkbox"/> Buffers
<input type="checkbox"/> Pit channels	<input type="checkbox"/> Machine beams / DEH beams	<input type="checkbox"/> Machine
<input type="checkbox"/> Deflector sheave	<input type="checkbox"/> Overhead sheave supports	<input type="checkbox"/> Overhead sheaves
<input type="checkbox"/> Cab enclosure	<input type="checkbox"/> Controller	<input type="checkbox"/> Other: _____
- Elevator Code:** List the governing ASME A17.1 Code year revision: _____
- Seismic Design Information:** Fill out the applicable data on the separate "Seismic Design Information" sheet.
- Incoming Building Power Supply:** _____ Voltage **Machine/Controller Power Supply:** _____ Voltage
- Occupied Space:** Is there "occupied space" below the pit (requires a counterweight safety per code): ☐ Yes ☐ No
- Existing Car Being Retained:** List the total empty car weight: _____
- New Passenger Cab:** O.A. Height: _____ Cab + Door Weight: _____
- New Freight Cab:** Mfr.: _____ O.A. Height: _____ Cab Weight: _____ Gate(s) Weight: _____
(Forward a job specific drawing of the cab & gate assembly)
- Finished Car Flooring:** Thickness: _____ Type of Material: _____
Weight in lbs/sq.ft: _____ or Overall Weight: _____ total lbs.

14. **Loading Classification:**

- ☐ Passenger (only) ☐ Passenger/Class A ☐ Passenger/Class C1 ☐ Passenger/Class C2 ☐ Passenger/Class C3
☐ Freight/Class B ☐ Freight/Class A ☐ Freight/Class C1 ☐ Freight/Class C2 ☐ Freight/Class C3

15. **Confirm Accessibility Requirements:**

- ☐ Wheelchair only ☐ 76" x 24" Stretcher ☐ 84" x 24" Stretcher

16. **Guide Shoes:** Mfr.: _____ Car Shoe Model: _____ Cwt. Shoe Model: _____

17. **Rail Bracket Attachment:** Method of car and cwt. guide rail bracket attachment to the structure at the outer walls:
☐ Inserts ☐ Concrete anchors ☐ Steel framing (steel locations are required)

18. **Machine:** Mfr.: _____ Model: _____ Type (Geared / Gearless): _____
(If not being supplied by H-W, forward a job specific drawing of the machine.)

19. **Hoist Motor (Geared Machine):** Mfr.: _____ HP: _____ RPM: _____ Frame Size: _____
(If not being supplied by H-W)

20. **Controller:** Mfr.: _____ Model No.: _____ Size: _____ W. _____ D. _____ H. _____

21. **Other Equipment in Machine Room:** List all items and provide sizes:

22. **Drive Manufacturer (required if H-W is supplying a gearless machine):**

- ☐ KEB ☐ Magnetek ☐ Other (cable will be provided by customer)

23. **Jobs with Live Shaft Governor:** Standard shaft dia. is 12 mm, if using G.A.L. control. If using other control manufacturer specify the required shaft diameter: ☐ 12 mm (.472") dia. ☐ .25" dia. ☐ .75" dia. ☐ 1.00" dia.

24. **Car Sill Detail:** If H-W is supplying a car platform with all-steel type construction that has no additional wood sub-flooring on top, then a car sill detail is required by our final engineering department before fabrication of the platform.

25. **Car Operating Panel Cut-out Detail:** If the car operating panel is located at the side of the cab enclosure, then a drawing showing the size and location of the C.O.P. box cut-out is required by our final engineering department before fabrication of the car sling.

MRL APPLICATIONS (only):

1. **MRL Plan Arrangement:** Which Plan arrangement have you chosen from our MRL Design Guide (available online): _____
2. **MRL Machine Access Door:** If considering an underslung MRL Plan (101, 111, or 112 with counterweight located at the side), then a machine access door may be required. If it is not structurally feasible to provide the access door these plan arrangements may not be available. Confirm whether you can provide the machine access door: ☐ Yes ☐ No
3. **MRL Governor Access (NYC):** Confirm if required to follow NYC Appendix K, which requires a governor access door: ☐ Yes ☐ No
4. **MRL Grating Platform (NYC):** For MRL elevators located in New York City the NYC D.O.B. may require a grating platform in the overhead with 53" minimum clear headroom to facilitate machine maintenance access. The installation of grating will require additional overhead height than what is called for in our MRL Design Guide. Confirm if a grating platform is required: ☐ Yes ☐ No
5. **MRL Encoder Cable Length:** H-W standard length for the encoder cable is 20 meters (65 feet). The maximum length that we supply is 75 meters (246 feet). Determination of the correct length required to route through the building structure is your responsibility. Confirm required encoder cable length: _____ ft.
6. **MRL Manual Brake Release Cable Length:** If the controls are by G.A.L. a manual brake release is NOT REQUIRED. If the controls are by another manufacturer, then a manual brake release cable is supplied unless you tell us otherwise. Determination of the correct length required is your responsibility. Our standard stock cable length is 8'-0". Other stock lengths available: 15'-0", 20'-0", 25'-0", 30'-0", 40'-0", and 50'-0" (max.). Do you require a manual brake release: ☐ Yes ☐ No Confirm the cable length: _____ ft.

Additional Comments: _____

NOTE: If layouts are being prepared by H-W, we will require your written approval verifying the accuracy of the layout drawings and authorizing us to proceed with final engineering to release to production before any fabrication of equipment can proceed.



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LAYOUT DRAWING INFORMATION (MACHINE ROOM ONLY - OVERHEAD APPLICATION)

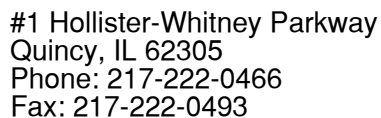
Company:	Date:
Address:	Job Name:
Contact:	Job Address:
Phone:	Your PO #:
Email:	H-W Contract #:

PLEASE PROVIDE THE FOLLOWING:

- General Specifications, Job Summary, or Scope of Project:** Or if unavailable, fill out H-W #E-166 Estimation and Order form, which is available online.
- Existing Hoistway / Machine Room:** For existing elevator construction provide a thorough field survey and/or the original elevator installation layout. Indicate machine room size and configuration; hoistway size and location (below) relative to the existing machine room walls, access door location & size; guide rail locations (below), location of all existing equipment in machine room that is to be retained in place. We have various survey forms available in Bulletin #1139 Field Surveys, which is available online.
- Modernization Jobs:** For "modernization" jobs indicate sizes and locations of all equipment that is to be retained. We have various survey forms available in Bulletin #1139 Field Surveys, which is available online. Identify all **existing** elevator equipment that you intend to keep in place:

<input type="checkbox"/> Car rails	<input type="checkbox"/> CWT. rails	<input type="checkbox"/> Governor
<input type="checkbox"/> Machine beams / DEH beams	<input type="checkbox"/> Machine	<input type="checkbox"/> Deflector sheave
<input type="checkbox"/> Controller	<input type="checkbox"/> Other: _____	
- Existing Car Being Retained:** List the total empty car weight: _____
- Governing Codes:** List the applicable ASME A17.1 Code year revision: _____
- Seismic Risk Zone:** Check the applicable seismic zone: ☐ 0 ☐ 1 ☐ 2 ☐ 3 ☐ 4 ☐ N/A (Existing)
- Incoming Building Power Supply:** _____ Voltage **Machine/Controller Power Supply:** _____ Voltage
- Machine:** Mfr.: _____ Model: _____ Geared / Gearless (circle one)
(If not being supplied by H-W, forward a job specific drawing of the machine.)
- Hoist Motor (Geared Machine):** Mfr.: _____ HP: _____ RPM: _____ Frame Size: _____
(If not being supplied by H-W)
- Controller:** Mfr.: _____ Model No.: _____ Size: _____ W. _____ D. _____ H.
- Drive Manufacturer (required if H-W is supplying a gearless machine):**
☐ KEB ☐ Magnetek ☐ Other (cable will be provided by customer)
- Jobs with Live Shaft Governor:** Standard shaft dia. Is 12 mm if using G.A.L. controls. If using other control manufacturer specify the required shaft diameter: ☐ 12 mm (.472" dia. ☐ .25" dia. ☐ .75" dia. ☐ 1.00" dia.

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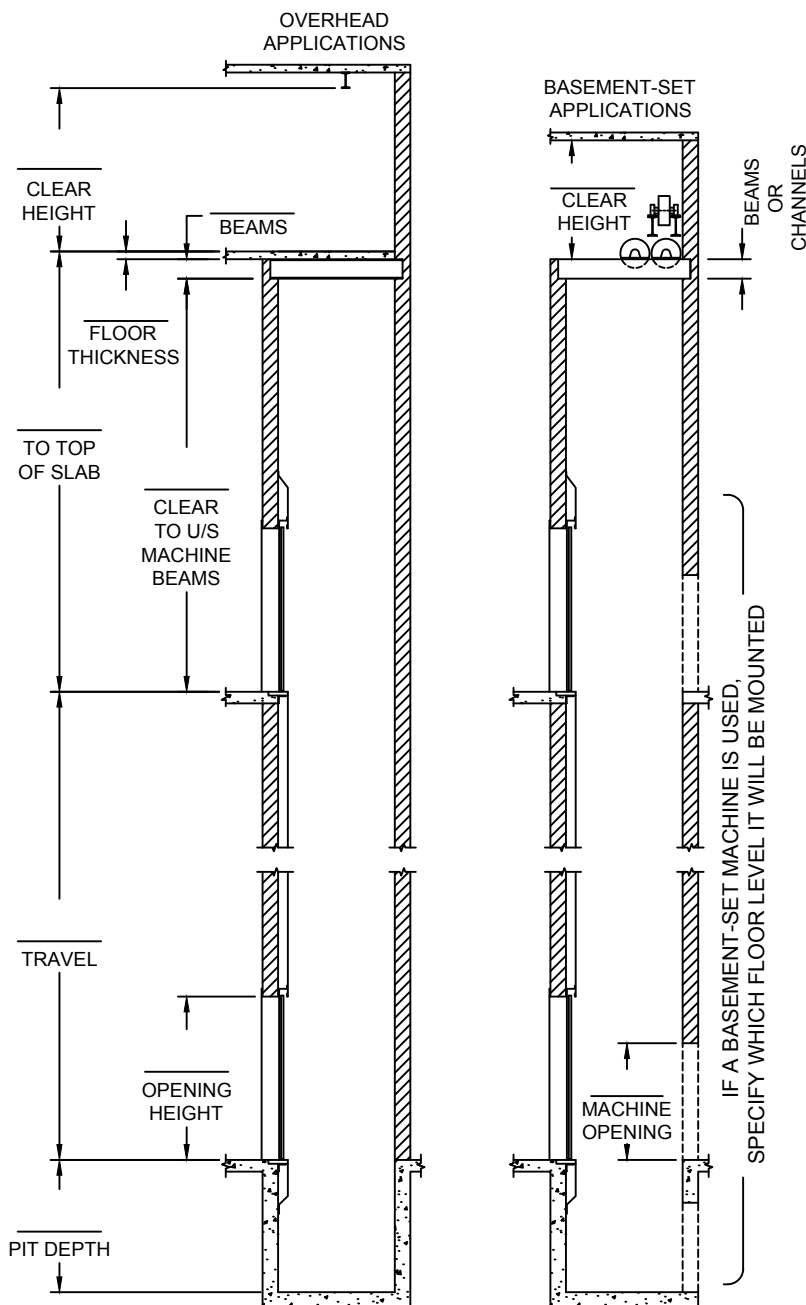
JOB NAME: _____

ELEV. #: _____ H-W # : _____ DATE: _____

FROM (H-W): _____

FILL OUT SURVEY FORM AS COMPLETE AS POSSIBLE.

FLOOR HEIGHTS AND ELEVATIONS (OVERHEAD & BASEMENT)

[illegible]

INSTRUCTIONS:

1. USE THE CHART TO INDICATE ALL FLOOR MARKINGS.
2. LIST THE FLOOR TO FLOOR HEIGHTS.
3. INDICATE WHICH FLOORS ARE SERVED BY THE FRONT/REAR/SIDE ENTRANCES.
4. AT THE BOTTOM OF THE CHART INDICATE THE TOTAL NUMBER OF FLOORS SERVED BY THE FRONT/REAR/SIDE ENTRANCES.
5. ON THE DIAGRAM TO THE RIGHT INDICATE THE PIT DEPTH, OVERALL TRAVEL, AND OVERHEAD HEIGHTS.

IS THE PIT ACCESSED BY LADDER? _____
OR BY WALK-IN ACCESS DOOR? _____
OCCUPIED SPACE BELOW THE PIT? _____



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ENGINEERING CONTACT: _____

JOB NAME: _____

COMPANY: _____

ELEV. #: _____ H-W #: _____ DATE: _____

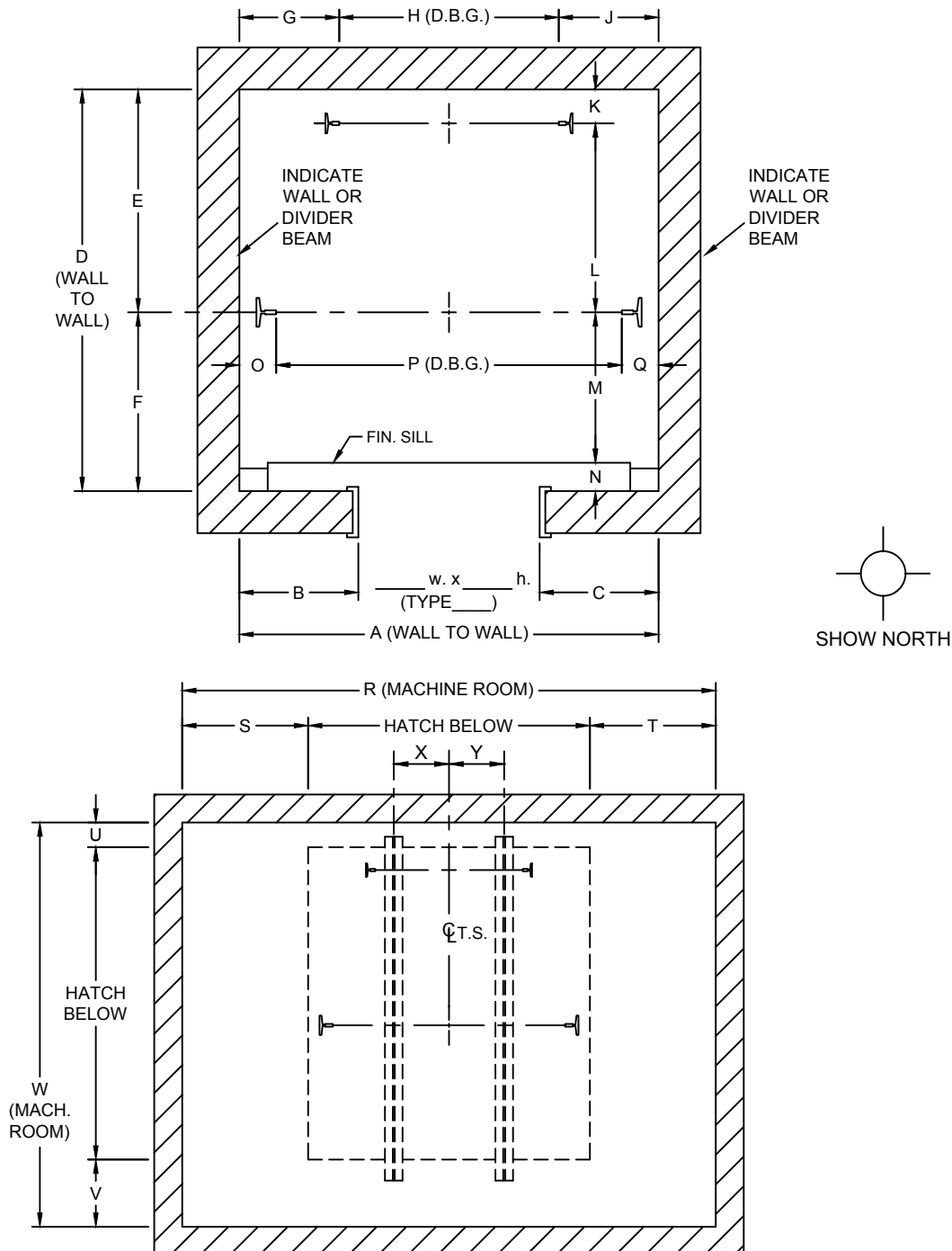
EMAIL: _____

FROM (H-W): _____

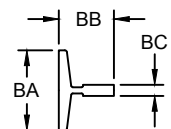
FAX NO: _____

FILL OUT SURVEY FORM AS COMPLETE AS POSSIBLE.

SINGLE OPENING - CWT. AT REAR



DIMENSIONS AT TIGHTEST POINT	
A	
B	
C	
D	
E	
F	
G	
H	
J	
K	
L	
M	
N	
O	
P	
Q	
R	
S	
T	
U	
V	
W	
X	
Y	



RAIL DIMENSIONS		
	CAR	CWT.
BA		
BB		
BC		
LB./FT.		

MACHINE BEAM SIZE: _____ H. x _____ W.
INDICATE MACHINE ROOM DOOR LOCATION & HAND



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JOB NAME: _____

COMPANY: _____

ELEV. #: _____ H-W #: _____ DATE: _____

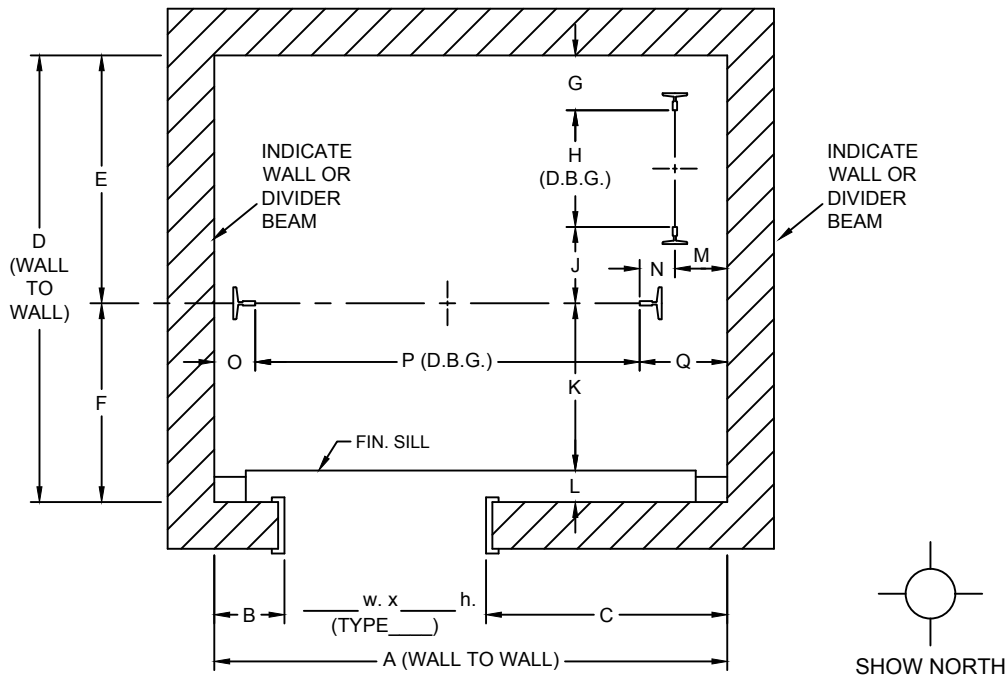
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FROM (H-W): _____

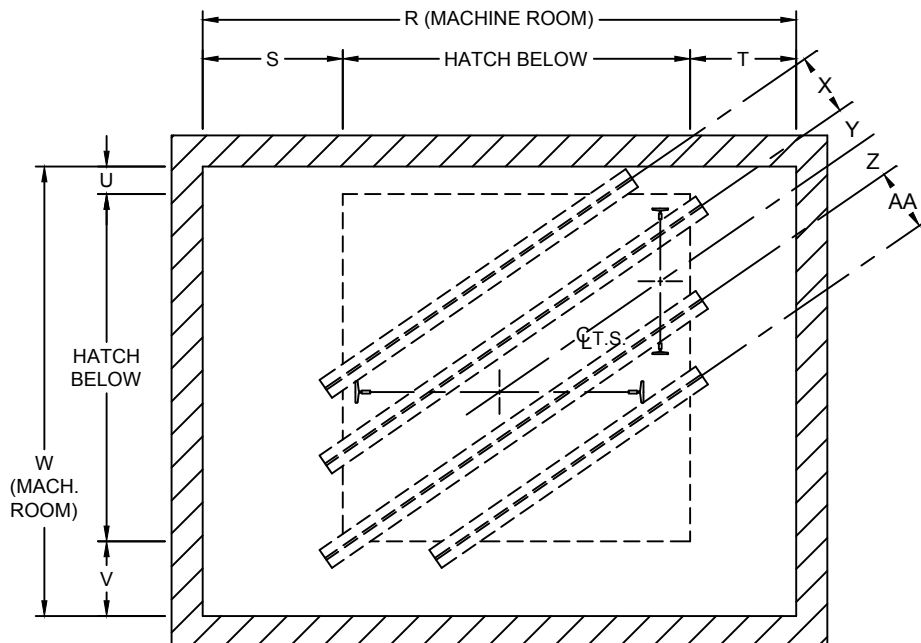
FAX NO: _____

FILL OUT SURVEY FORM AS COMPLETE AS POSSIBLE.

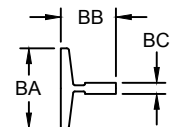
SINGLE OPENING - LEFT HAND DOOR - CWT. ON RIGHT



DIMENSIONS AT TIGHTEST POINT	
A	
B	
C	
D	
E	
F	
G	
H	
J	
K	
L	
M	
N	
O	
P	
Q	
R	
S	
T	
U	
V	
W	
X	
Y	
Z	
AA	



MACHINE BEAM SIZE: _____ H. x _____ W.
INDICATE MACHINE ROOM DOOR LOCATION & HAND



RAIL DIMENSIONS		
	CAR	CWT.
BA		
BB		
BC		
LB./FT.		



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JOB NAME: _____

COMPANY: _____

ELEV. #: _____ H-W #: _____ DATE: _____

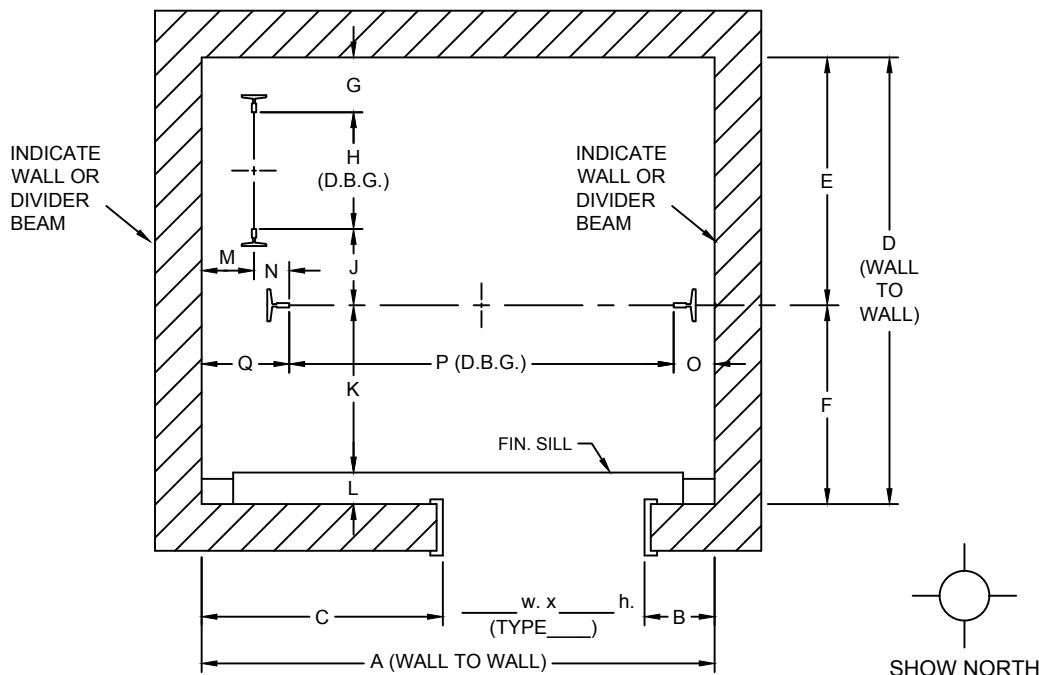
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FROM (H-W): _____

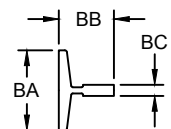
FAX NO: _____

FILL OUT SURVEY FORM AS COMPLETE AS POSSIBLE.

SINGLE OPENING - RIGHT HAND DOOR - CWT. ON LEFT



DIMENSIONS AT TIGHTEST POINT	
A	
B	
C	
D	
E	
F	
G	
H	
J	
K	
L	
M	
N	
O	
P	
Q	
R	
S	
T	
U	
V	
W	
X	
Y	
Z	
AA	



RAIL DIMENSIONS		
	CAR	CWT.
BA		
BB		
BC		
LB./FT.		

MACHINE BEAM SIZE: _____ H. x _____ W.
INDICATE MACHINE ROOM DOOR LOCATION & HAND



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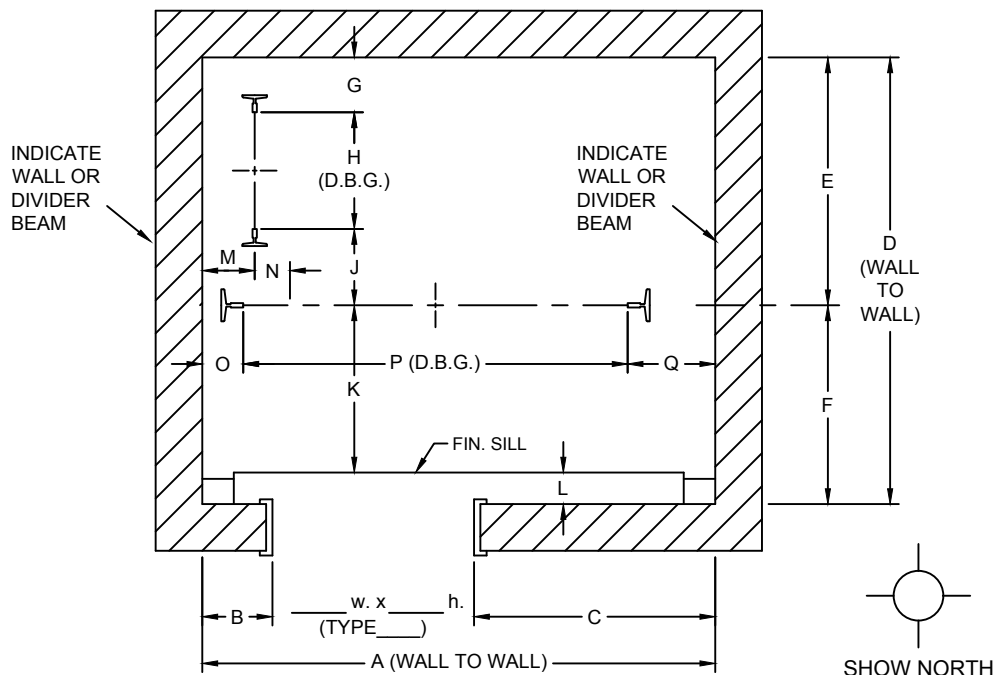
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FROM (H-W): _____

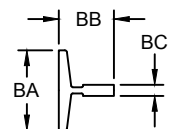
FAX NO: _____

FILL OUT SURVEY FORM AS COMPLETE AS POSSIBLE.

SINGLE OPENING - LEFT HAND DOOR - CWT. ON LEFT



DIMENSIONS AT TIGHTEST POINT	
A	
B	
C	
D	
E	
F	
G	
H	
J	
K	
L	
M	
N	
O	
P	
Q	
R	
S	
T	
U	
V	
W	
X	
Y	
Z	
AA	



RAIL DIMENSIONS		
	CAR	CWT.
BA		
BB		
BC		
LB./FT.		

MACHINE BEAM SIZE: _____ H. x _____ W.
INDICATE MACHINE ROOM DOOR LOCATION & HAND



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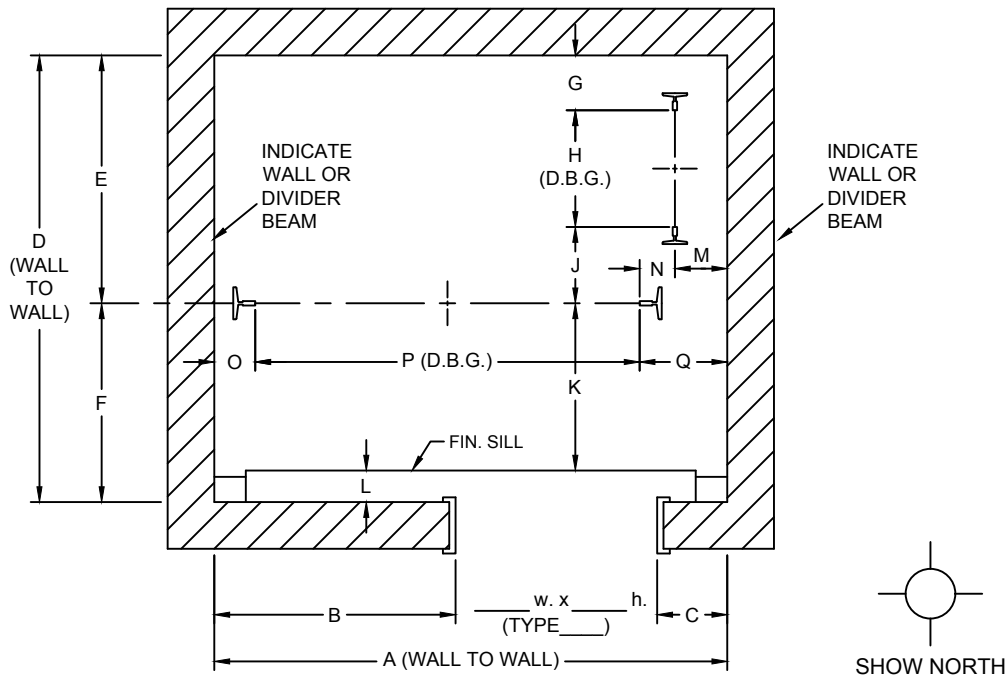
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FROM (H-W): _____

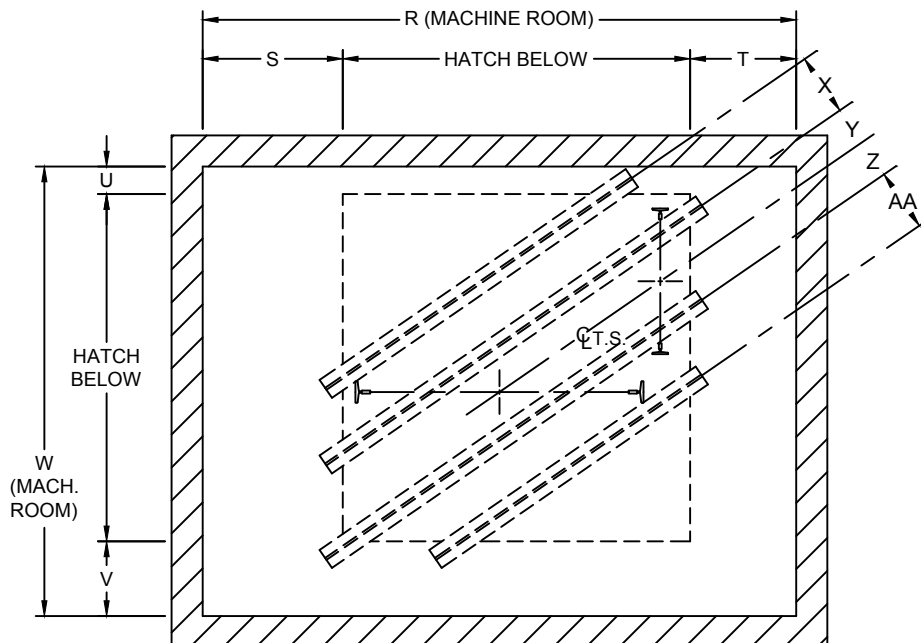
FAX NO: _____

FILL OUT SURVEY FORM AS COMPLETE AS POSSIBLE.

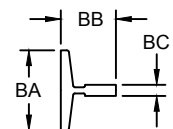
SINGLE OPENING - RIGHT HAND DOOR - CWT. ON RIGHT



DIMENSIONS AT TIGHTEST POINT	
A	
B	
C	
D	
E	
F	
G	
H	
J	
K	
L	
M	
N	
O	
P	
Q	
R	
S	
T	
U	
V	
W	
X	
Y	
Z	
AA	



MACHINE BEAM SIZE: _____ H. x _____ W.
INDICATE MACHINE ROOM DOOR LOCATION & HAND



RAIL DIMENSIONS		
	CAR	CWT.
BA		
BB		
BC		
LB./FT.		



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ELEV. #: _____ H-W #: _____ DATE: _____

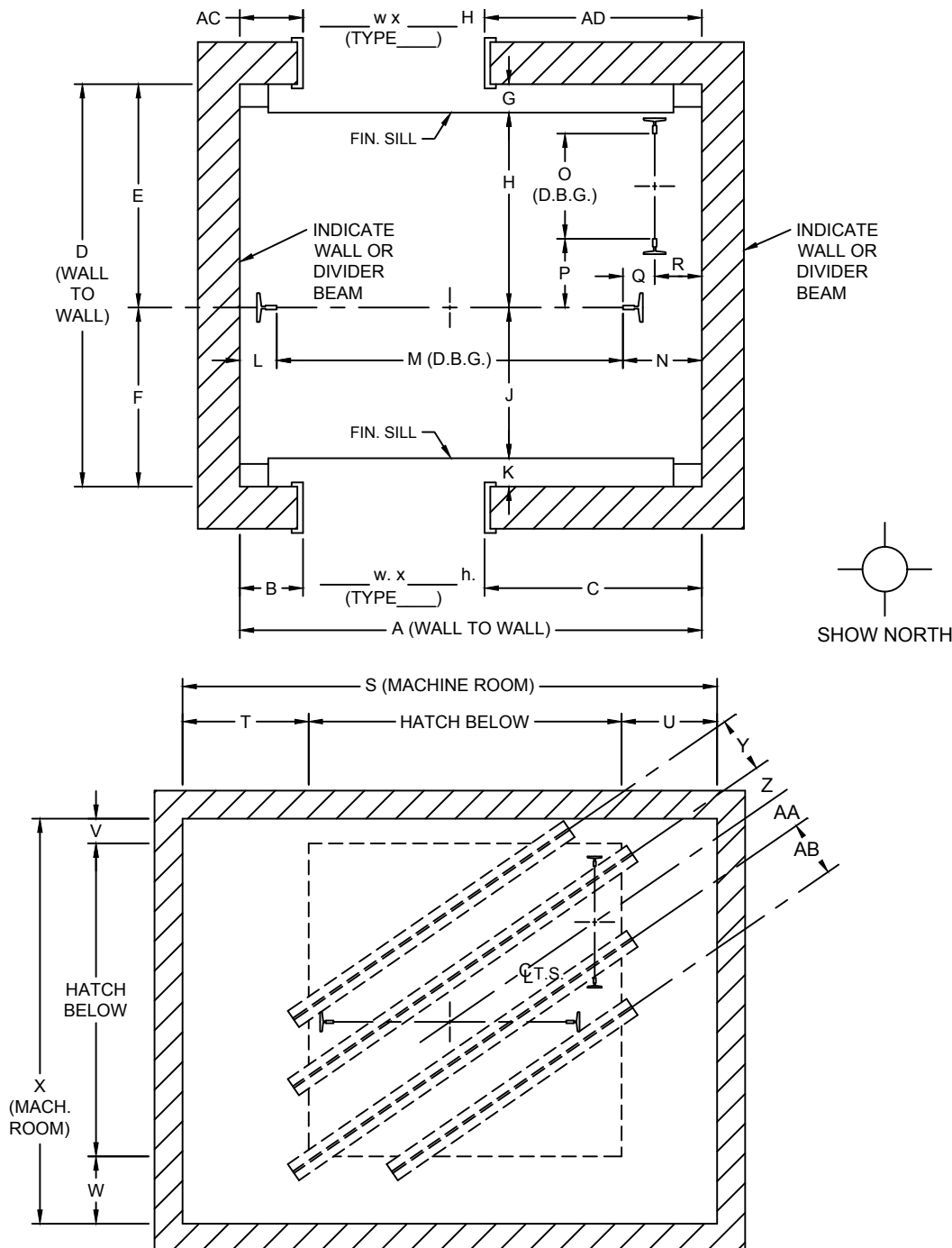
EMAIL: _____

FROM (H-W): _____

FAX NO: _____

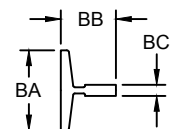
FILL OUT SURVEY FORM AS COMPLETE AS POSSIBLE.

DOUBLE OPENING - LEFT HAND DOOR - CWT. ON RIGHT



MACHINE BEAM SIZE: _____ H. x _____ W.
INDICATE MACHINE ROOM DOOR LOCATION & HAND

DIMENSIONS AT TIGHTEST POINT	
A	
B	
C	
D	
E	
F	
G	
H	
J	
K	
L	
M	
N	
O	
P	
Q	
R	
S	
T	
U	
V	
W	
X	
Y	
Z	
AA	
AB	
AC	
AD	



RAIL DIMENSIONS		
	CAR	CWT.
BA		
BB		
BC		
LB./FT.		



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layouts@hwec.com
engineering@hwec.com

ENGINEERING CONTACT: _____

JOB NAME: _____

COMPANY: _____

ELEV. #: _____ H-W #: _____ DATE: _____

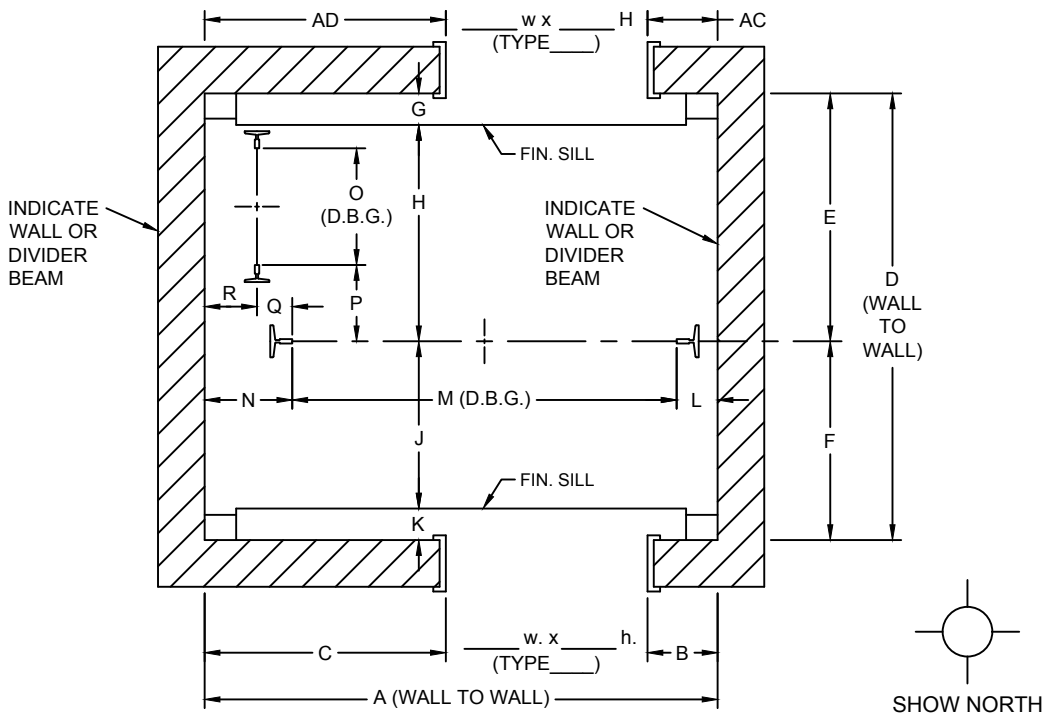
EMAIL: _____

FROM (H-W): _____

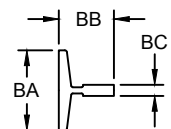
FAX NO: _____

FILL OUT SURVEY FORM AS COMPLETE AS POSSIBLE.

DOUBLE OPENING - RIGHT HAND DOOR - CWT. ON LEFT



DIMENSIONS AT TIGHTEST POINT	
A	
B	
C	
D	
E	
F	
G	
H	
J	
K	
L	
M	
N	
O	
P	
Q	
R	
S	
T	
U	
V	
W	
X	
Y	
Z	
AA	
AB	
AC	
AD	



RAIL DIMENSIONS		
	CAR	CWT.
BA		
BB		
BC		
LB./FT.		

MACHINE BEAM SIZE: _____ H. x _____ W.
INDICATE MACHINE ROOM DOOR LOCATION & HAND

ENGINEERING CONTACT: _____

JOB NAME: _____

COMPANY: _____

ELEV. #: _____ H-W #: _____ DATE: _____

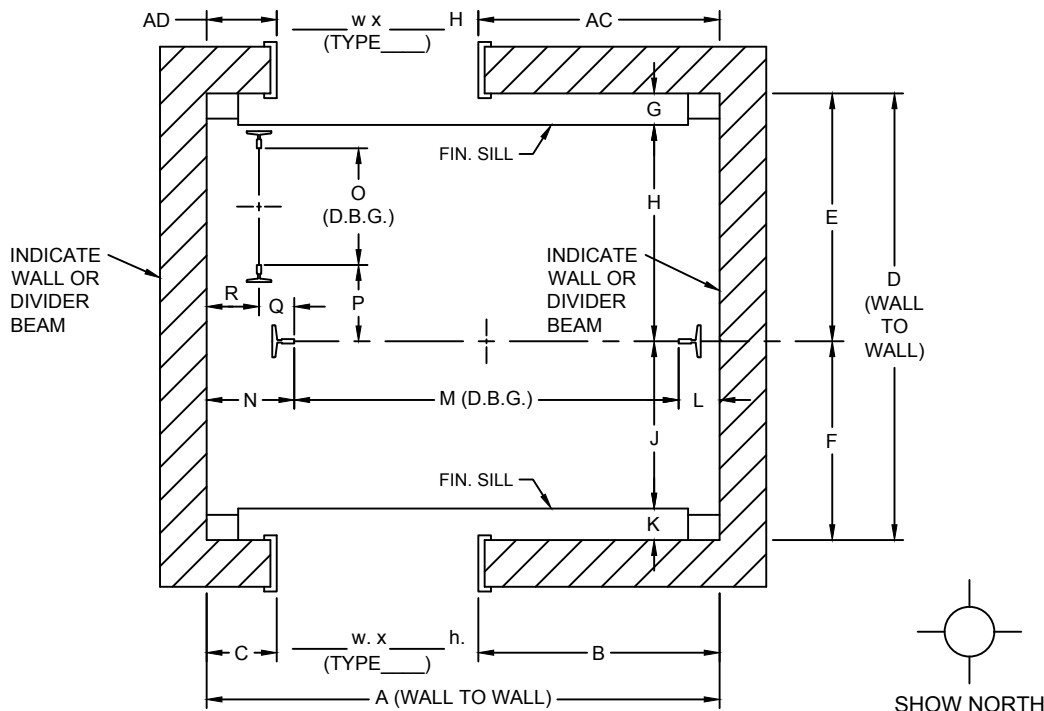
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FROM (H-W): _____

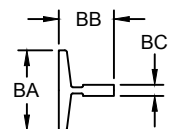
FAX NO: _____

FILL OUT SURVEY FORM AS COMPLETE AS POSSIBLE.

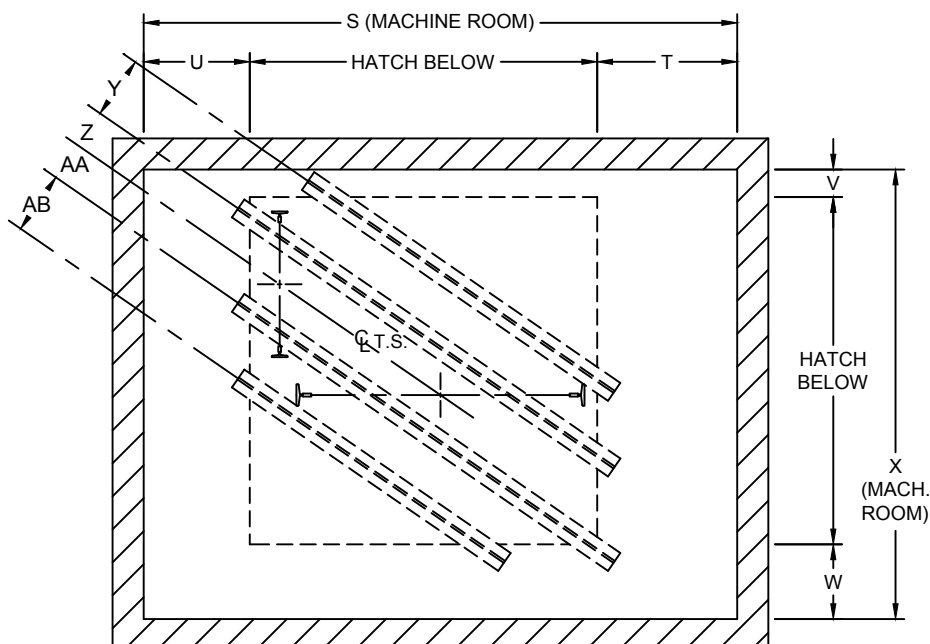
DOUBLE OPENING - LEFT HAND DOOR - CWT. ON LEFT



DIMENSIONS AT TIGHTEST POINT	
A	
B	
C	
D	
E	
F	
G	
H	
J	
K	
L	
M	
N	
O	
P	
Q	
R	
S	
T	
U	
V	
W	
X	
Y	
Z	
AA	
AB	
AC	
AD	



RAIL DIMENSIONS		
	CAR	CWT.
BA		
BB		
BC		
LB./FT.		



MACHINE BEAM SIZE: _____ H. x _____ W.
INDICATE MACHINE ROOM DOOR LOCATION & HAND



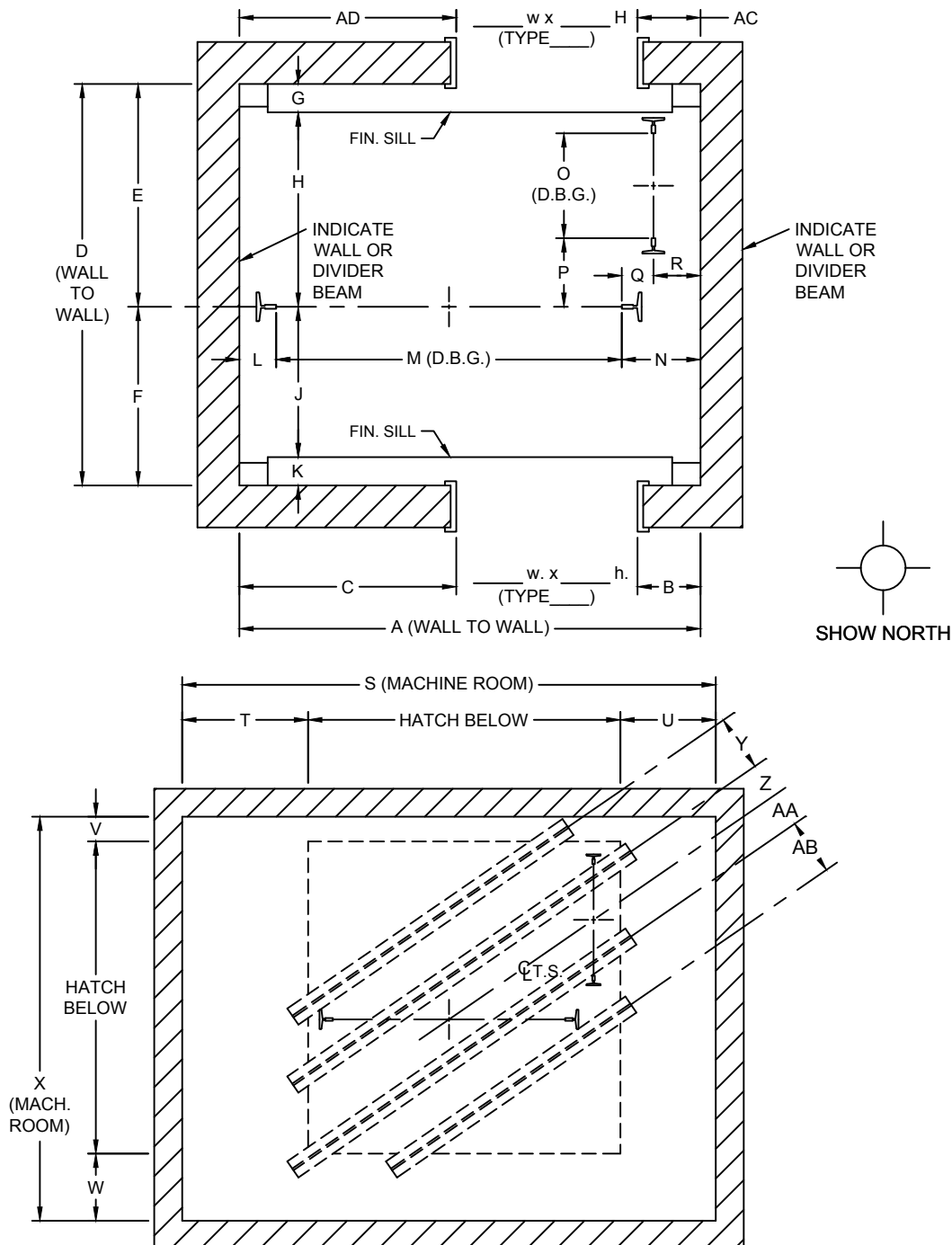
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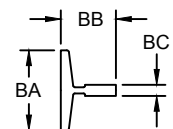
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COMPANY: _____ ELEV. #: _____ H-W #: _____ DATE: _____
EMAIL: _____ FROM (H-W): _____
FAX NO: _____ FILL OUT SURVEY FORM AS COMPLETE AS POSSIBLE.

DOUBLE OPENING - RIGHT HAND DOOR - CWT. ON RIGHT



DIMENSIONS AT TIGHTEST POINT	
A	
B	
C	
D	
E	
F	
G	
H	
J	
K	
L	
M	
N	
O	
P	
Q	
R	
S	
T	
U	
V	
W	
X	
Y	
Z	
AA	
AB	
AC	
AD	



RAIL DIMENSIONS		
	CAR	CWT.
BA		
BB		
BC		
LB./FT.		

MACHINE BEAM SIZE: _____ H. x _____ W.
INDICATE MACHINE ROOM DOOR LOCATION & HAND



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ENGINEERING CONTACT: _____

JOB NAME: _____

COMPANY: _____

ELEV. #: _____ H-W #: _____ DATE: _____

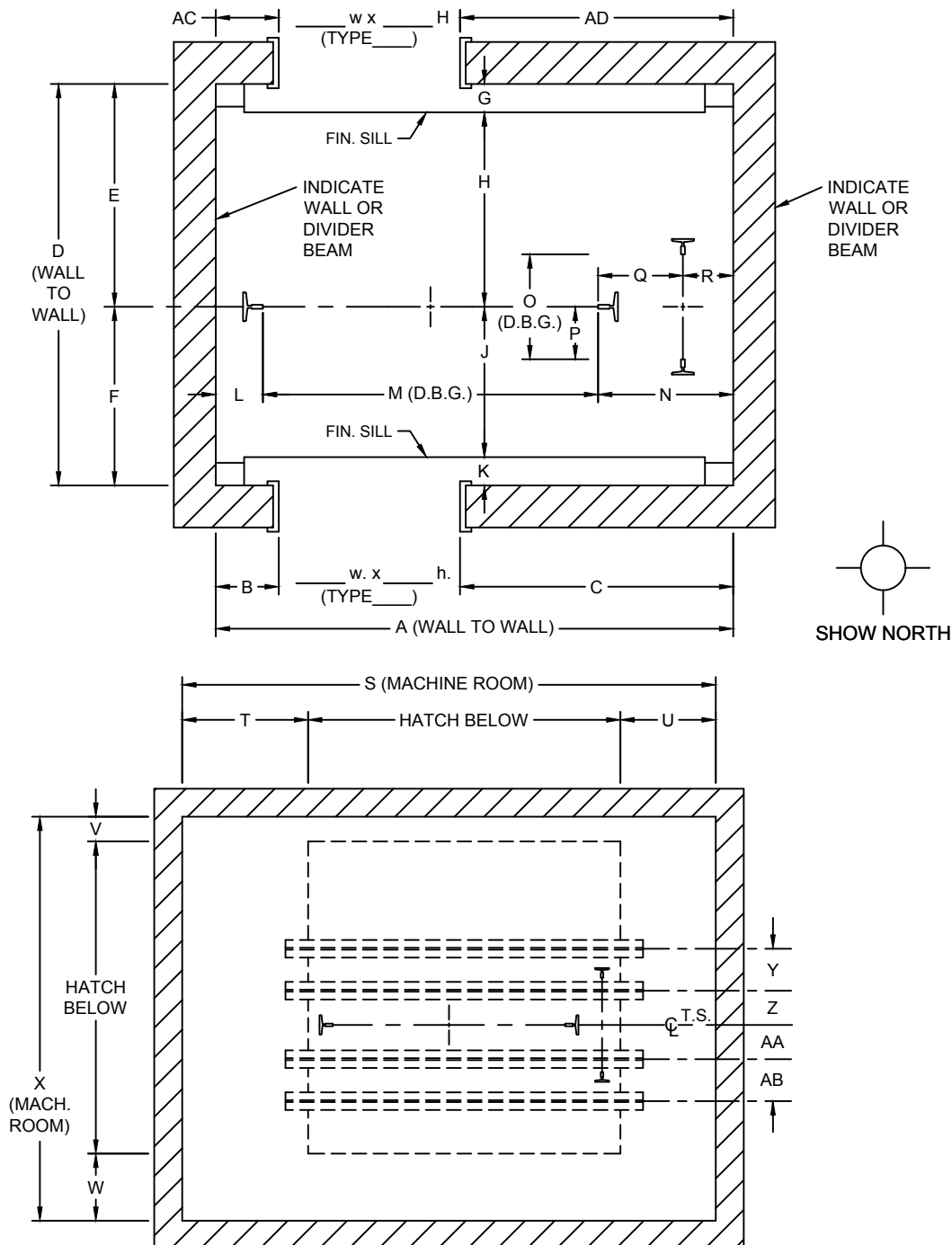
EMAIL: _____

FROM (H-W): _____

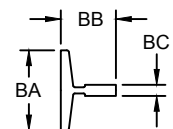
FAX NO: _____

FILL OUT SURVEY FORM AS COMPLETE AS POSSIBLE.

DOUBLE OPENING - LEFT HAND DOOR - CWT. ON RIGHT



DIMENSIONS AT TIGHTEST POINT	
A	
B	
C	
D	
E	
F	
G	
H	
J	
K	
L	
M	
N	
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W	
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AA	
AB	
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AD	

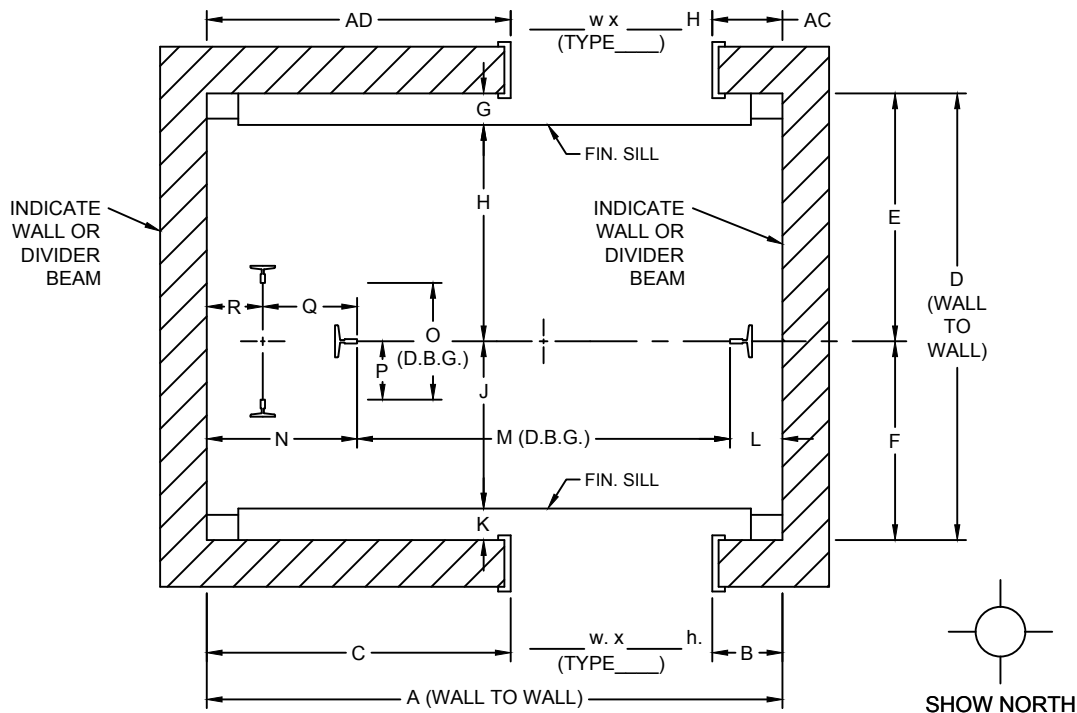


RAIL DIMENSIONS		
	CAR	CWT.
BA		
BB		
BC		
LB./FT.		

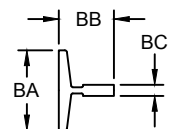
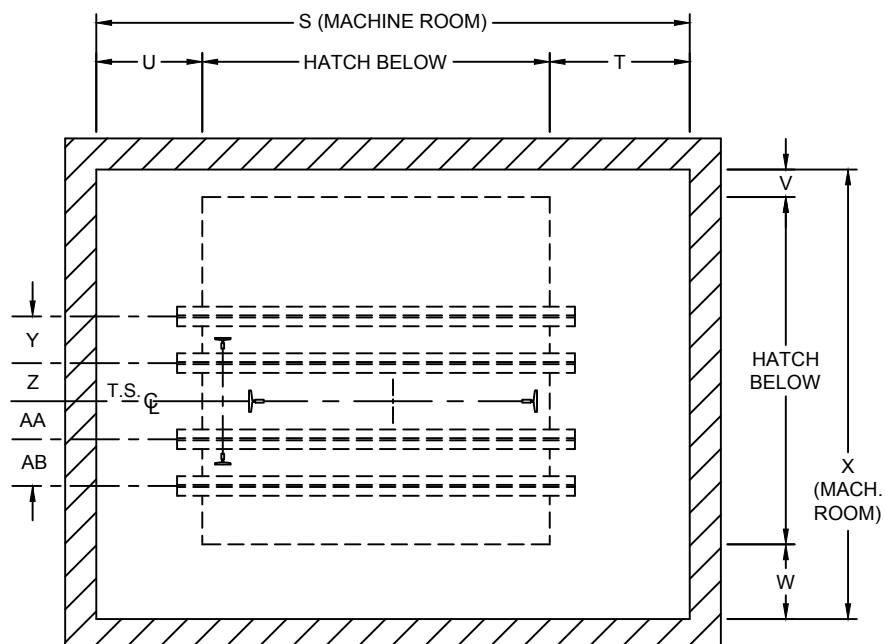
MACHINE BEAM SIZE: _____ H. x _____ W.
INDICATE MACHINE ROOM DOOR LOCATION & HAND

ENGINEERING CONTACT: _____ JOB NAME: _____
 COMPANY: _____ ELEV. #: _____ H-W # : _____ DATE: _____
 EMAIL: _____ FROM (H-W): _____
 FAX NO: _____ FILL OUT SURVEY FORM AS COMPLETE AS POSSIBLE.

DOUBLE OPENING - RIGHT HAND DOOR - CWT. ON LEFT



DIMENSIONS AT TIGHTEST POINT	
A	
B	
C	
D	
E	
F	
G	
H	
J	
K	
L	
M	
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P	
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S	
T	
U	
V	
W	
X	
Y	
Z	
AA	
AB	
AC	
AD	



RAIL DIMENSIONS		
	CAR	CWT.
BA		
BB		
BC		
LB./FT.		

MACHINE BEAM SIZE: _____ H. x _____ W.
INDICATE MACHINE ROOM DOOR LOCATION & HAND



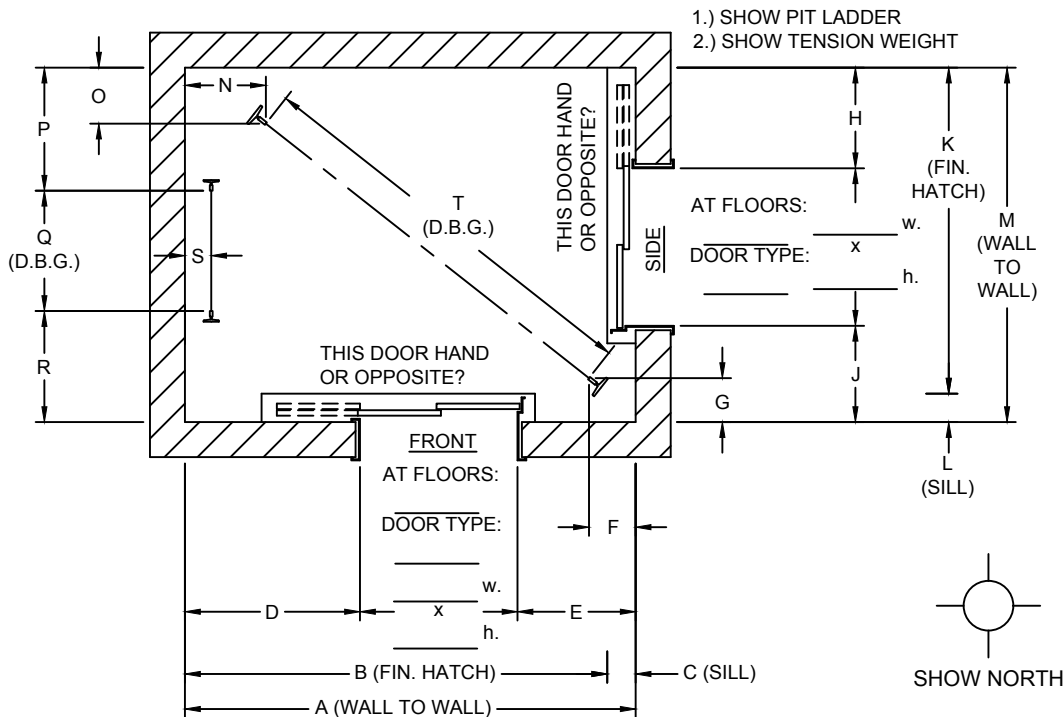
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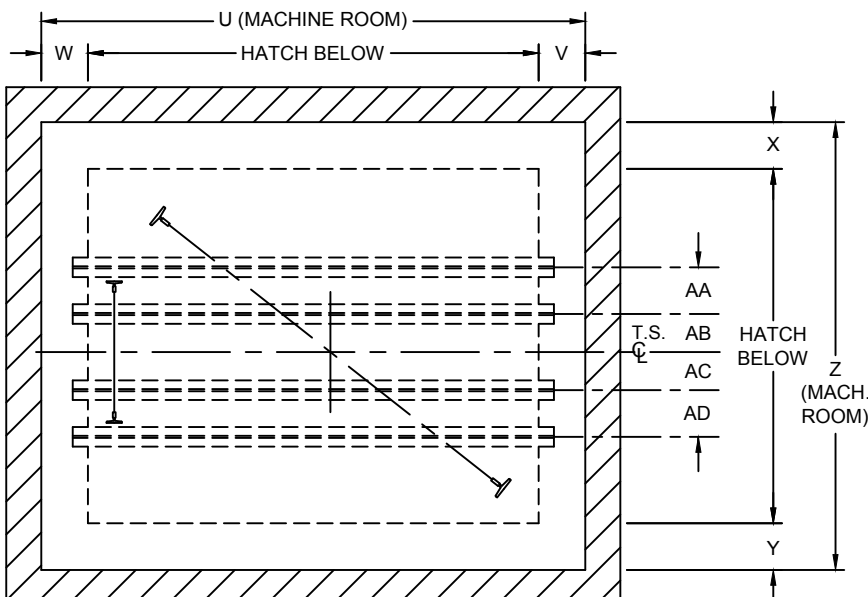
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COMPANY: _____ ELEV. #: _____ H-W #: _____ DATE: _____
EMAIL: _____ FROM (H-W): _____
FAX NO: _____ FILL OUT SURVEY FORM AS COMPLETE AS POSSIBLE.

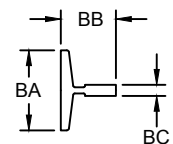
CORNERPOST - FRONT AND RIGHT SIDE OPENINGS - CWT. ON LEFT



DIMENSIONS AT TIGHTEST POINT	
A	
B	
C	
D	
E	
F	
G	
H	
J	
K	
L	
M	
N	
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P	
Q	
R	
S	
T	
U	
V	
W	
X	
Y	
Z	
AA	
AB	
AC	
AD	



MACHINE BEAM SIZE: _____ H. x _____ W.
INDICATE MACHINE ROOM DOOR LOCATION & HAND



RAIL DIMENSIONS		
	CAR	CWT.
BA		
BB		
BC		
LB./FT.		



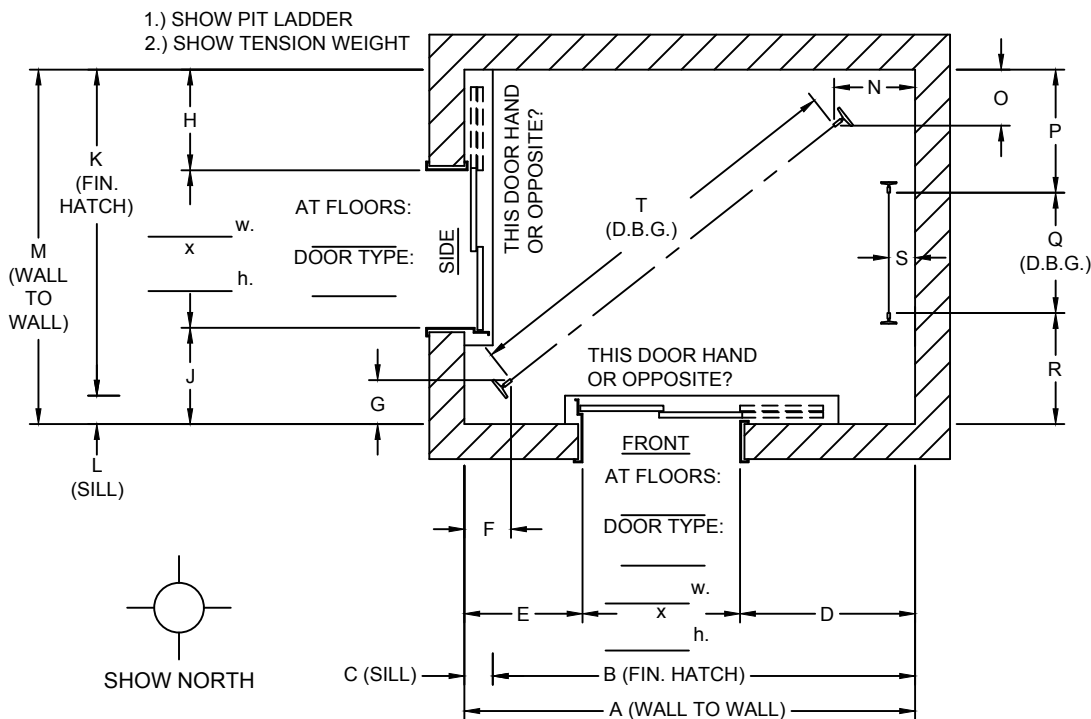
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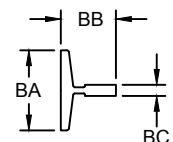
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COMPANY: _____ ELEV. #: _____ H-W #: _____ DATE: _____
EMAIL: _____ FROM (H-W): _____
FAX NO: _____ FILL OUT SURVEY FORM AS COMPLETE AS POSSIBLE.

CORNERPOST - FRONT AND LEFT SIDE OPENINGS - CWT. ON RIGHT



DIMENSIONS AT TIGHTEST POINT	
A	
B	
C	
D	
E	
F	
G	
H	
J	
K	
L	
M	
N	
O	
P	
Q	
R	
S	
T	
U	
V	
W	
X	
Y	
Z	
AA	
AB	
AC	
AD	



RAIL DIMENSIONS		
	CAR	CWT.
BA		
BB		
BC		
LB./FT.		

MACHINE BEAM SIZE: _____ H. x _____ W.
INDICATE MACHINE ROOM DOOR LOCATION & HAND



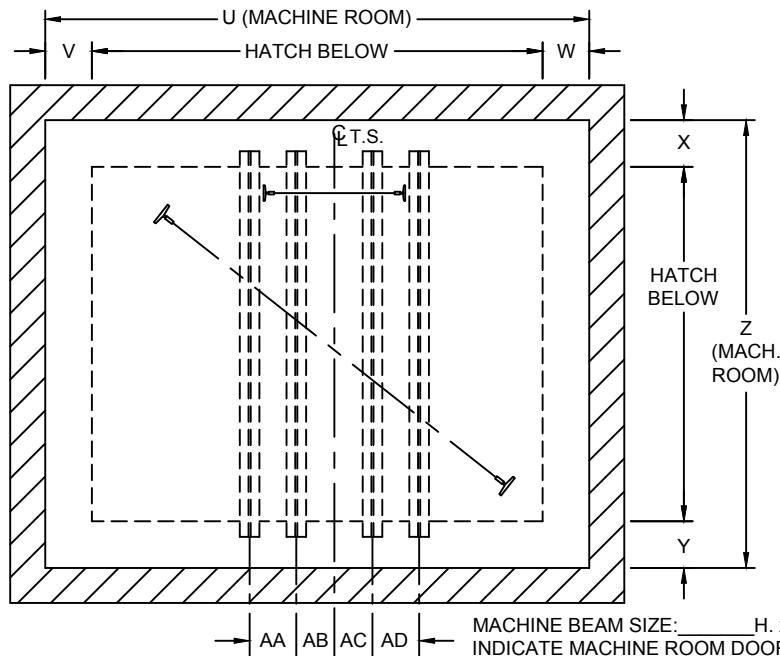
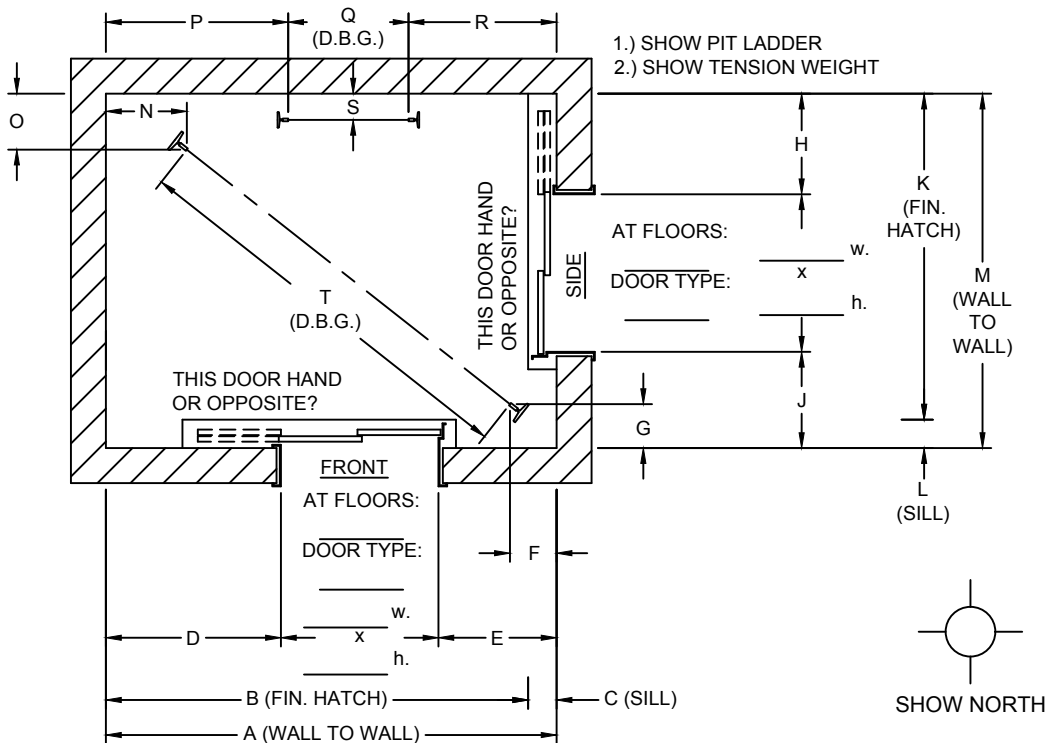
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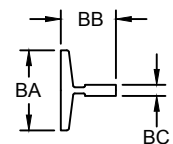
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COMPANY: _____ ELEV. #: _____ H-W #: _____ DATE: _____
EMAIL: _____ FROM (H-W): _____
FAX NO: _____ FILL OUT SURVEY FORM AS COMPLETE AS POSSIBLE.

CORNERPOST - FRONT AND RIGHT SIDE OPENINGS - CWT. AT REAR



DIMENSIONS AT TIGHTEST POINT	
A	
B	
C	
D	
E	
F	
G	
H	
J	
K	
L	
M	
N	
O	
P	
Q	
R	
S	
T	
U	
V	
W	
X	
Y	
Z	
AA	
AB	
AC	
AD	



RAIL DIMENSIONS		
	CAR	CWT.
BA		
BB		
BC		
LB./FT.		



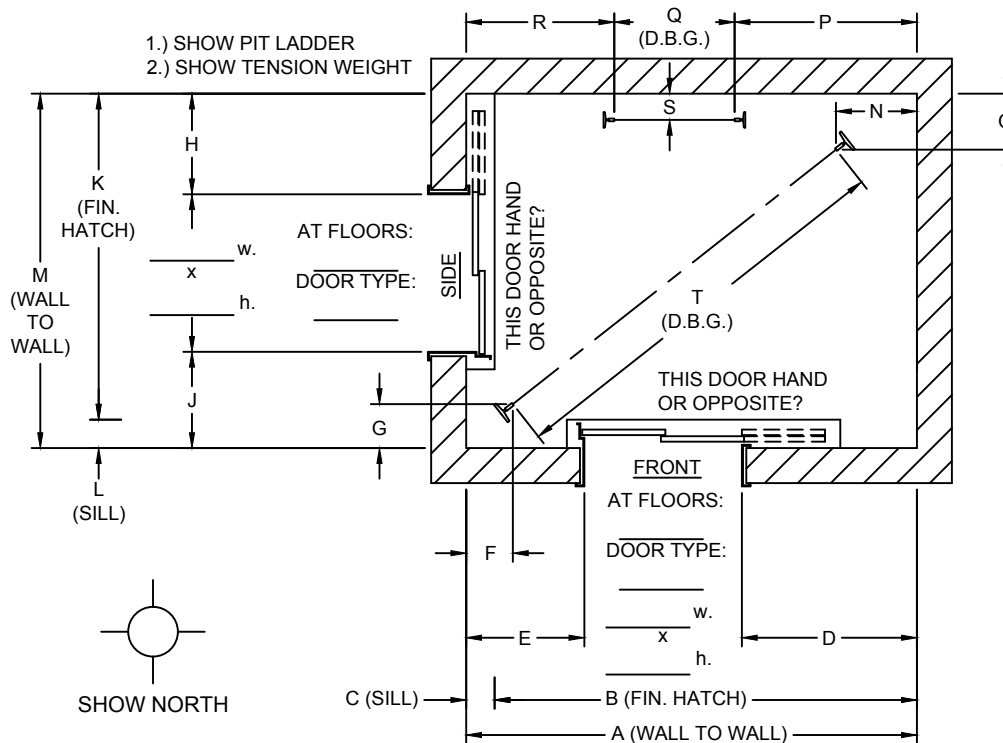
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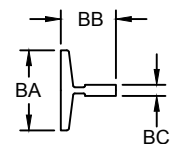
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sales@hwec.com
layouts@hwec.com
engineering@hwec.com

ENGINEERING CONTACT: _____ JOB NAME: _____
COMPANY: _____ ELEV. #: _____ H-W #: _____ DATE: _____
EMAIL: _____ FROM (H-W): _____
FAX NO: _____ FILL OUT SURVEY FORM AS COMPLETE AS POSSIBLE.

CORNERPOST - FRONT AND LEFT SIDE OPENINGS - CWT. AT REAR



DIMENSIONS AT TIGHTEST POINT	
A	
B	
C	
D	
E	
F	
G	
H	
J	
K	
L	
M	
N	
O	
P	
Q	
R	
S	
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V	
W	
X	
Y	
Z	
AA	
AB	
AC	
AD	

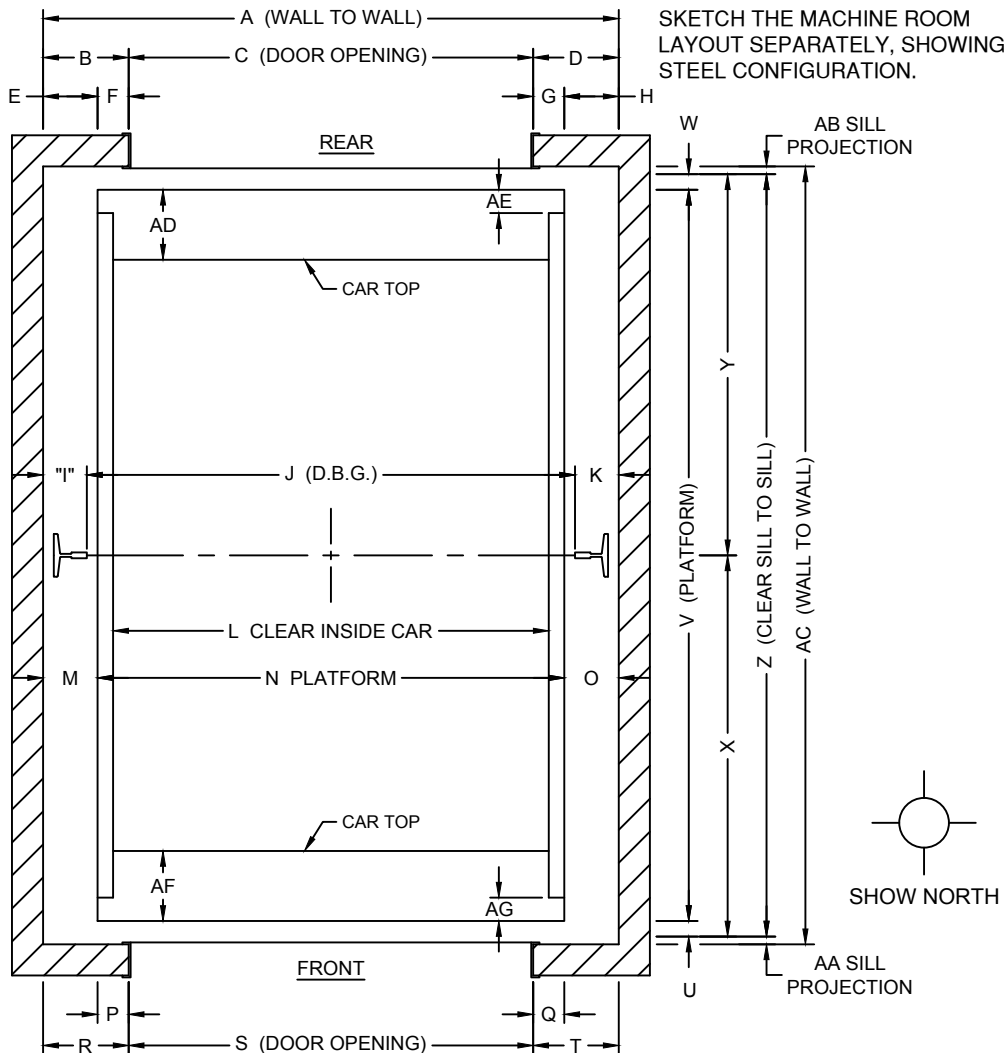


RAIL DIMENSIONS		
	CAR	CWT.
BA		
BB		
BC		
LB./FT.		

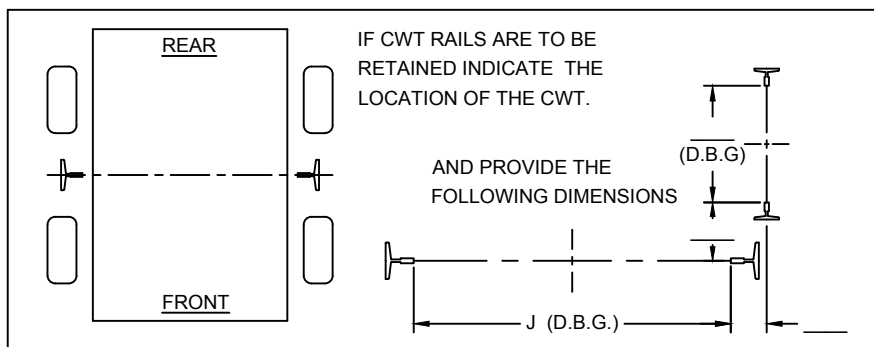
MACHINE BEAM SIZE: _____ H. x _____ W.
INDICATE MACHINE ROOM DOOR LOCATION & HAND

ENGINEERING CONTACT: _____ JOB NAME: _____
 COMPANY: _____ ELEV. #: _____ H-W # : _____ DATE: _____
 EMAIL: _____ FROM (H-W): _____
 FAX NO: _____ FILL OUT SURVEY FORM AS COMPLETE AS POSSIBLE.

FREIGHT PLAN VIEW



- LOCATE CAMS, INTERLOCKS AND VISION PANEL (FRONT & REAR).
- IF GATE IS TO BE REUSED LOCATE & DIMENSION WEIGHT BOXES.



DIMENSIONS AT TIGHTEST POINT	
A	
B	
C	
D	
E	
F	
G	
H	
"I"	
J	
K	
L	
M	
N	
O	
P	
Q	
R	
S	
T	
U	
V	
W	
X	
Y	
Z	
AA	
AB	
AC	
AD	
AE	
AF	
AG	

RAIL DIMENSIONS		
	CAR	CWT.
BA		
BB		
BC		
LB./FT.		



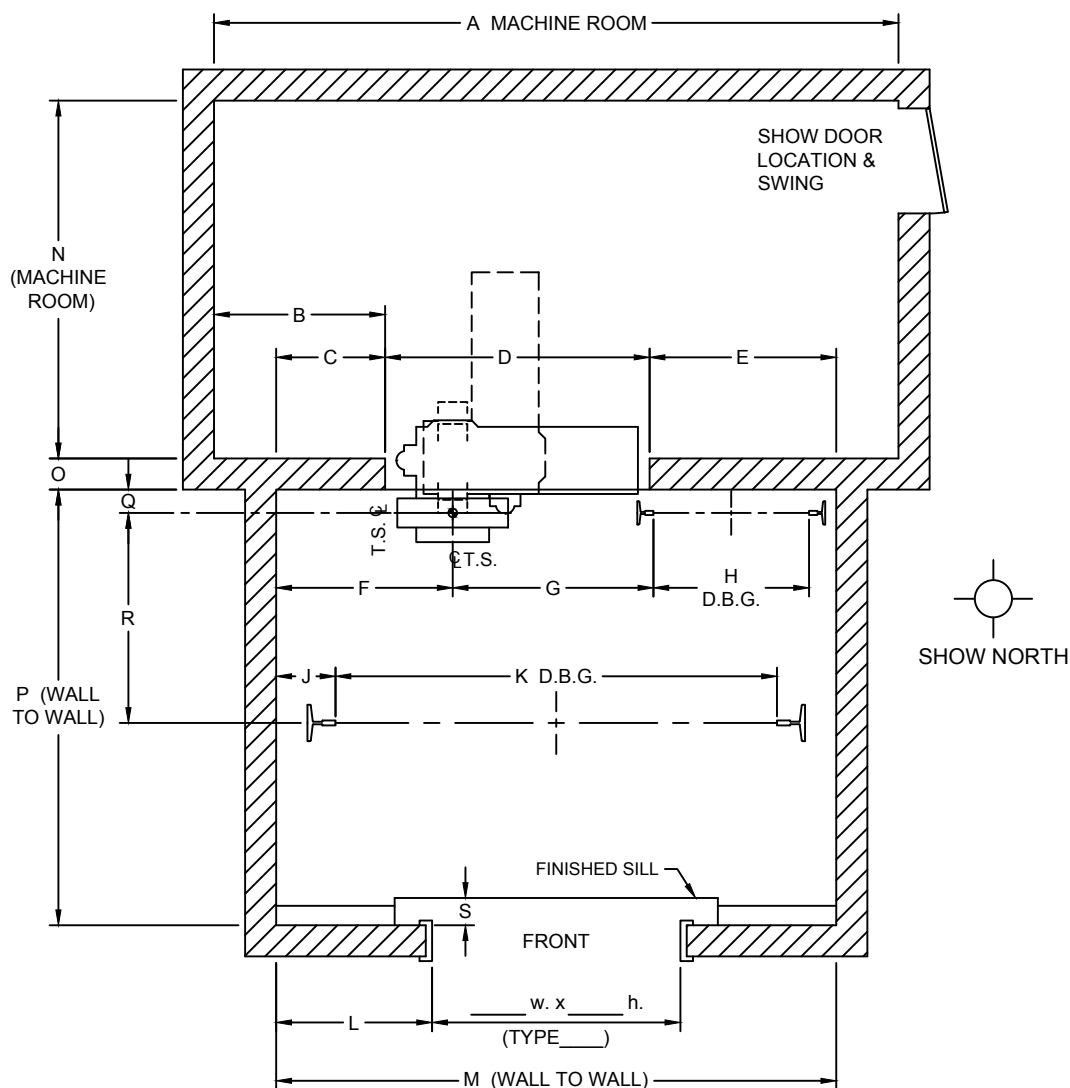
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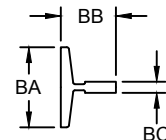
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COMPANY: _____ ELEV. #: _____ H-W #: _____ DATE: _____
EMAIL: _____ FROM (H-W): _____
FAX NO: _____ FILL OUT SURVEY FORM AS COMPLETE AS POSSIBLE.

BASEMENT-SET, MACHINE AT (LEFT) REAR & CWT AT (RIGHT) REAR



DIMENSIONS AT TIGHTEST POINT	
A	
B	
C	
D	
E	
F	
G	
H	
J	
K	
L	
M	
N	
O	
P	
Q	
R	
S	



RAIL DIMENSIONS		
	CAR	CWT.
BA		
BB		
BC		
LB./FT.		



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ENGINEERING CONTACT: _____

JOB NAME: _____

COMPANY: _____

ELEV. #: _____ H-W #: _____ DATE: _____

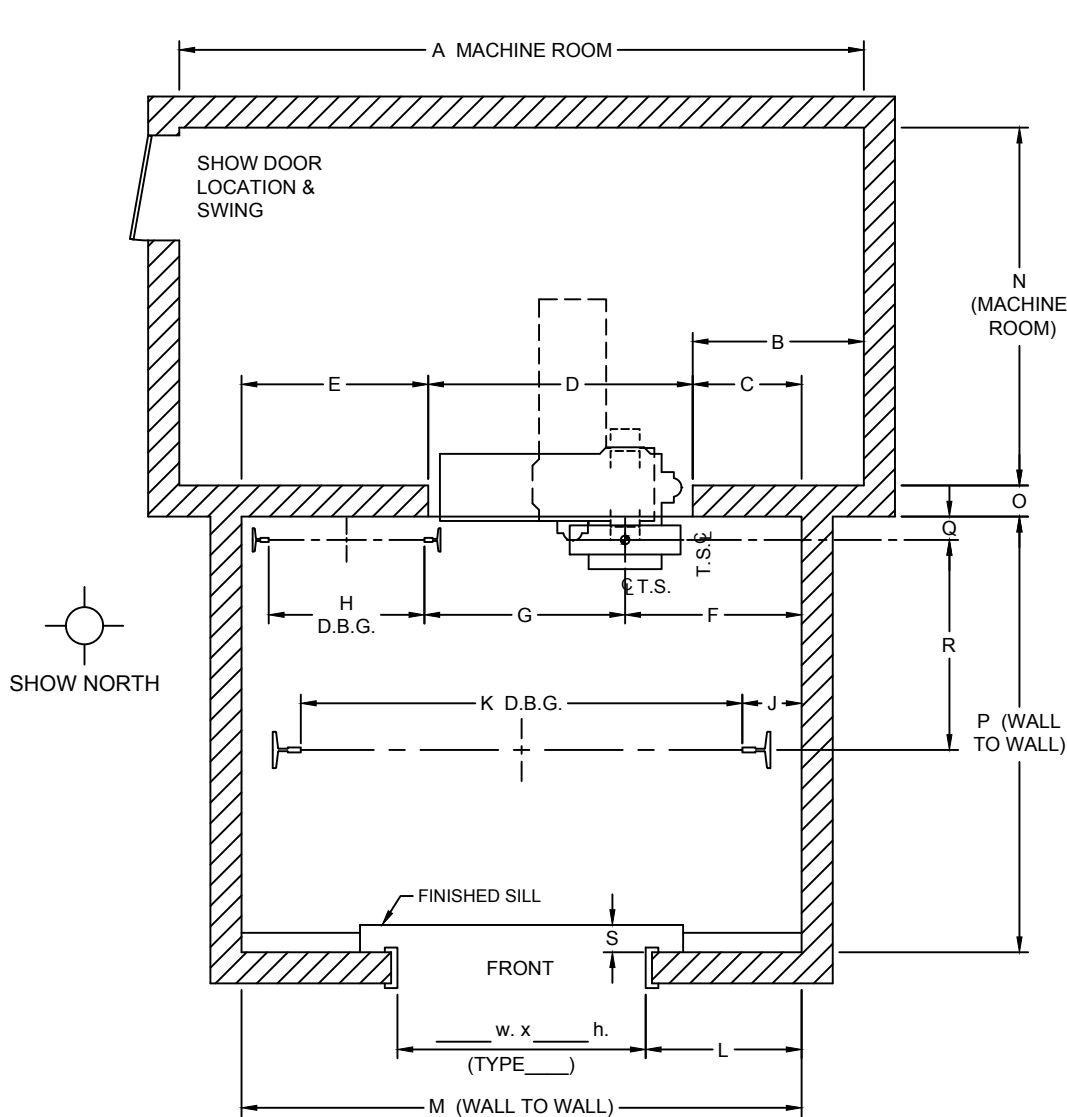
EMAIL: _____

FROM (H-W): _____

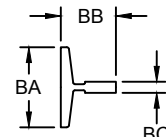
FAX NO: _____

FILL OUT SURVEY FORM AS COMPLETE AS POSSIBLE.

BASEMENT-SET, MACHINE AT (RIGHT) REAR & CWT AT (LEFT) REAR



DIMENSIONS AT TIGHTEST POINT	
A	
B	
C	
D	
E	
F	
G	
H	
J	
K	
L	
M	
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O	
P	
Q	
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S	



RAIL DIMENSIONS		
	CAR	CWT.
BA		
BB		
BC		
LB./FT.		



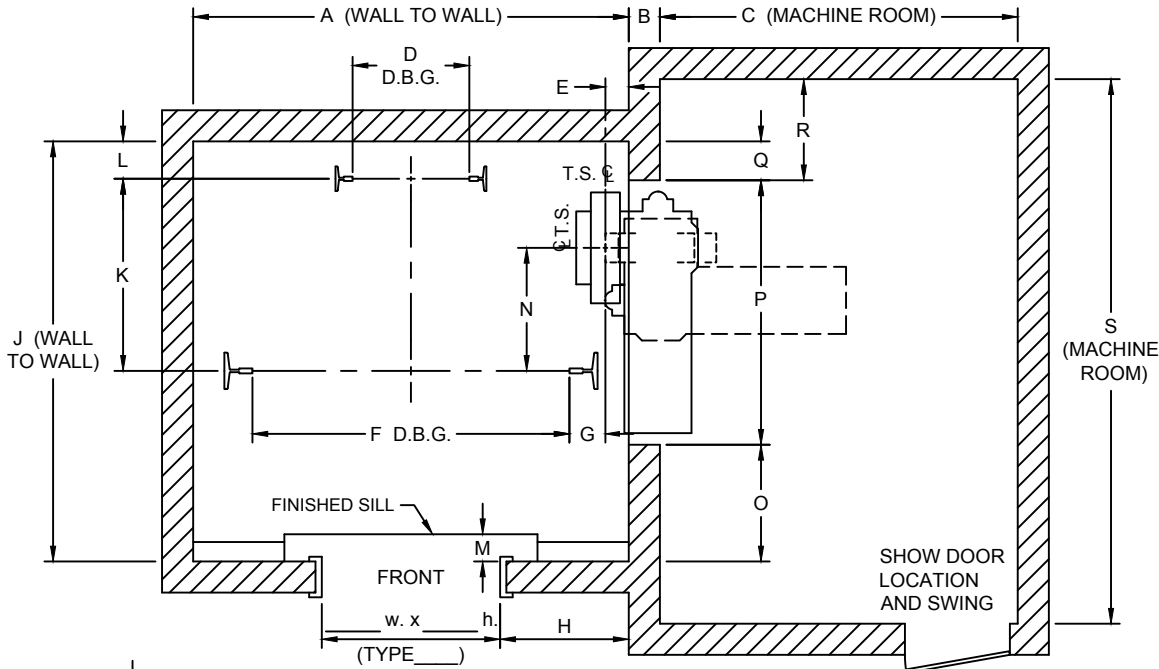
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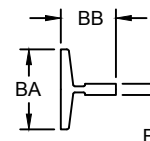
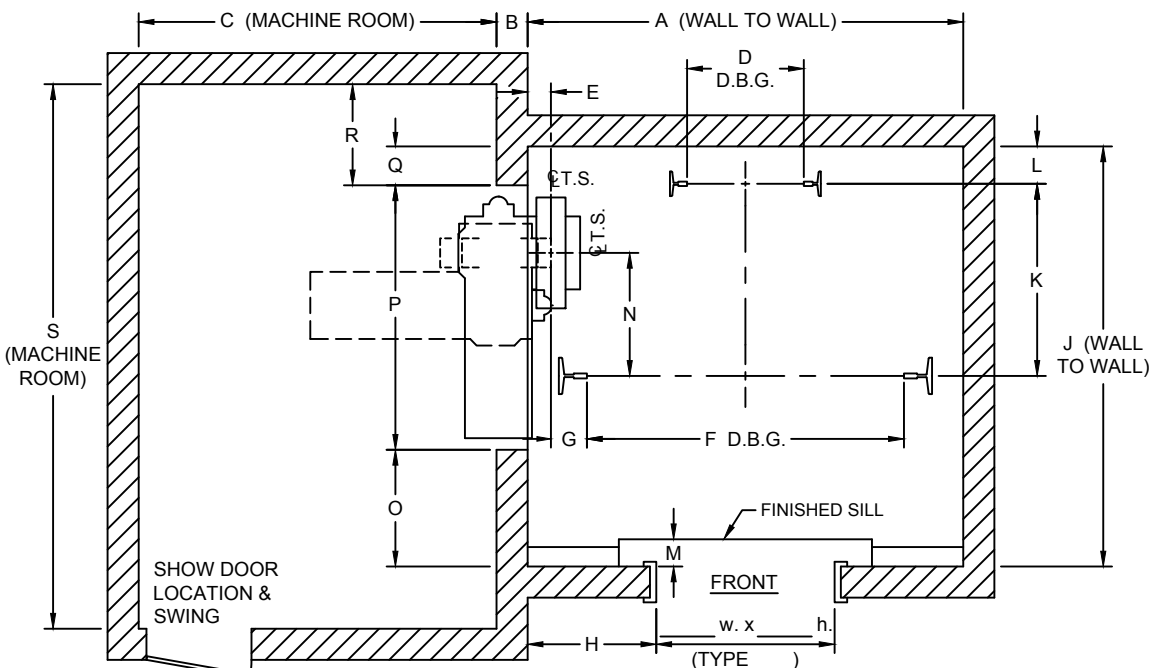
ENGINEERING CONTACT: _____ JOB NAME: _____
COMPANY: _____ ELEV. #: _____ H-W #: _____ DATE: _____
EMAIL: _____ FROM (H-W): _____
FAX NO: _____ FILL OUT SURVEY FORM AS COMPLETE AS POSSIBLE.

BASEMENT-SET, MACHINE AT SIDE & CWT AT REAR



OR
'X' OUT THE PLAN VIEW THAT DOES NOT APPLY

DIMENSIONS AT TIGHTEST POINT	
A	
B	
C	
D	
E	
F	
G	
H	
J	
K	
L	
M	
N	
O	
P	
Q	
R	
S	



RAIL DIMENSIONS		
	CAR	CWT.
BA		
BB		
BC		
LB./FT.		



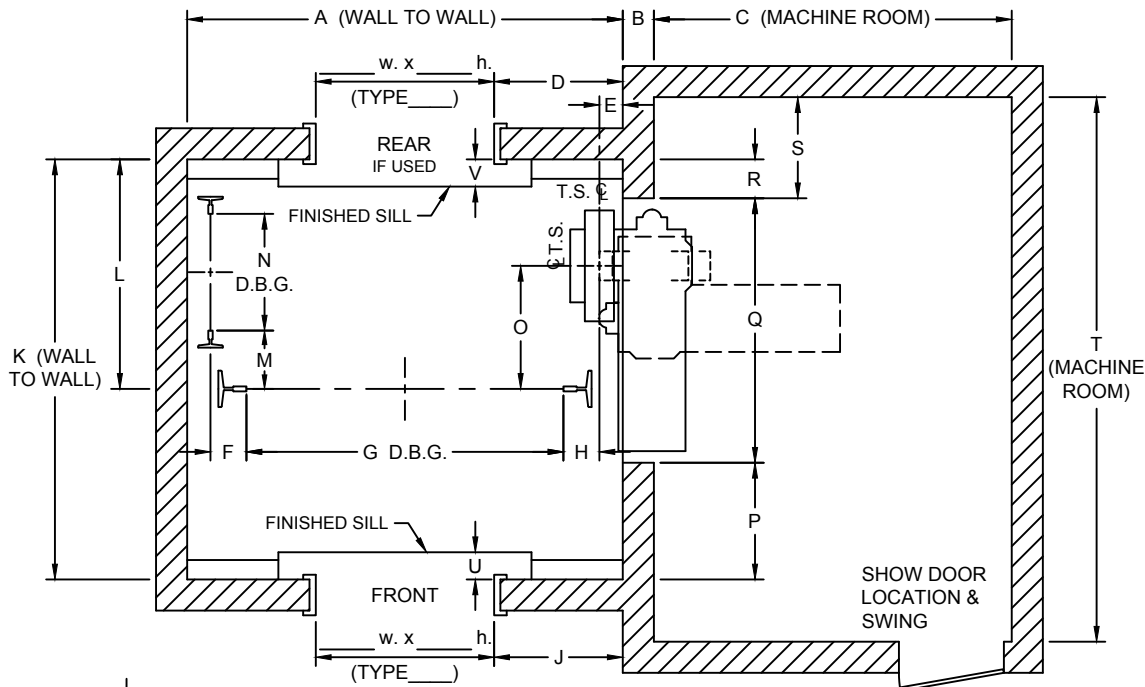
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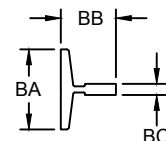
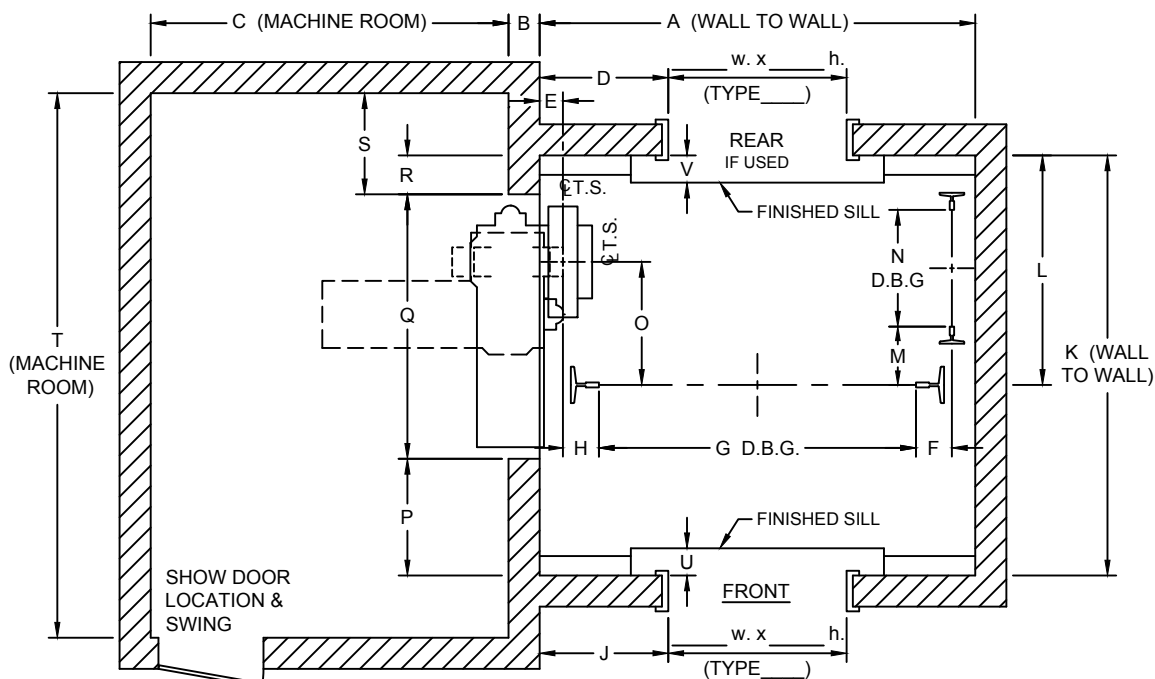
ENGINEERING CONTACT: _____ JOB NAME: _____
COMPANY: _____ ELEV. #: _____ H-W #: _____ DATE: _____
EMAIL: _____ FROM (H-W): _____
FAX NO: _____ FILL OUT SURVEY FORM AS COMPLETE AS POSSIBLE.

BASEMENT-SET, MACHINE AT SIDE & CWT ON OPPOSITE SIDE



OR
'X' OUT THE PLAN VIEW THAT DOES NOT APPLY

DIMENSIONS AT TIGHTEST POINT	
A	
B	
C	
D	
E	
F	
G	
H	
J	
K	
L	
M	
N	
O	
P	
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V	



RAIL DIMENSIONS		
	CAR	CWT.
BA		
BB		
BC		
LB./FT.		



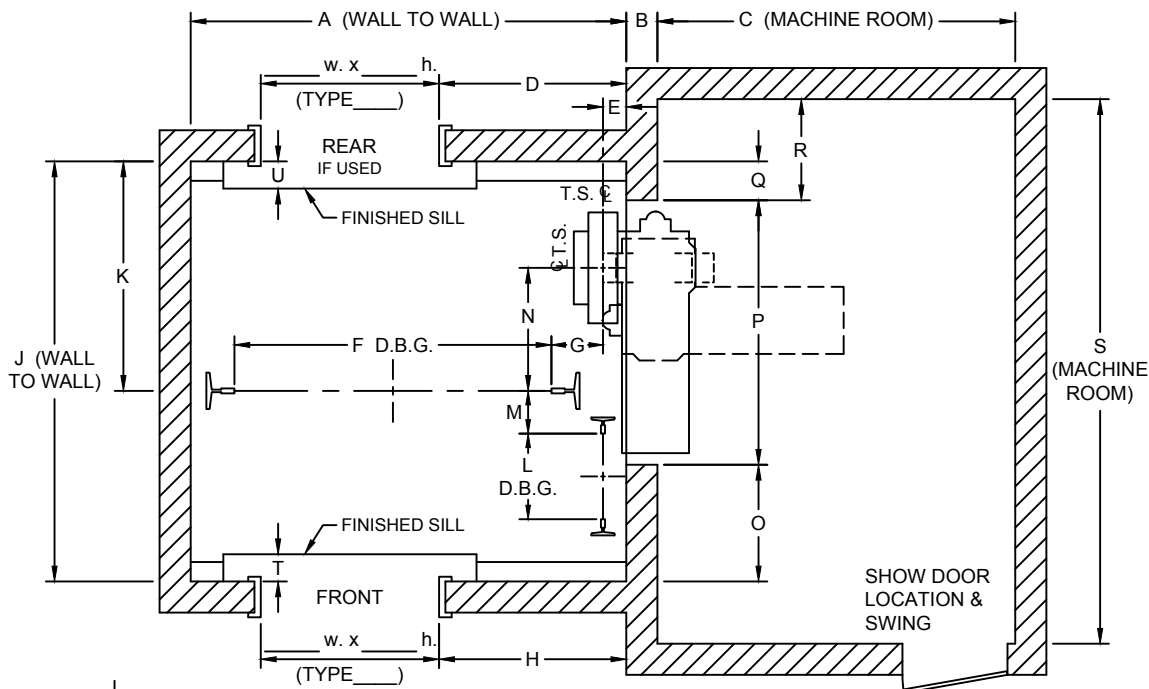
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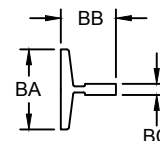
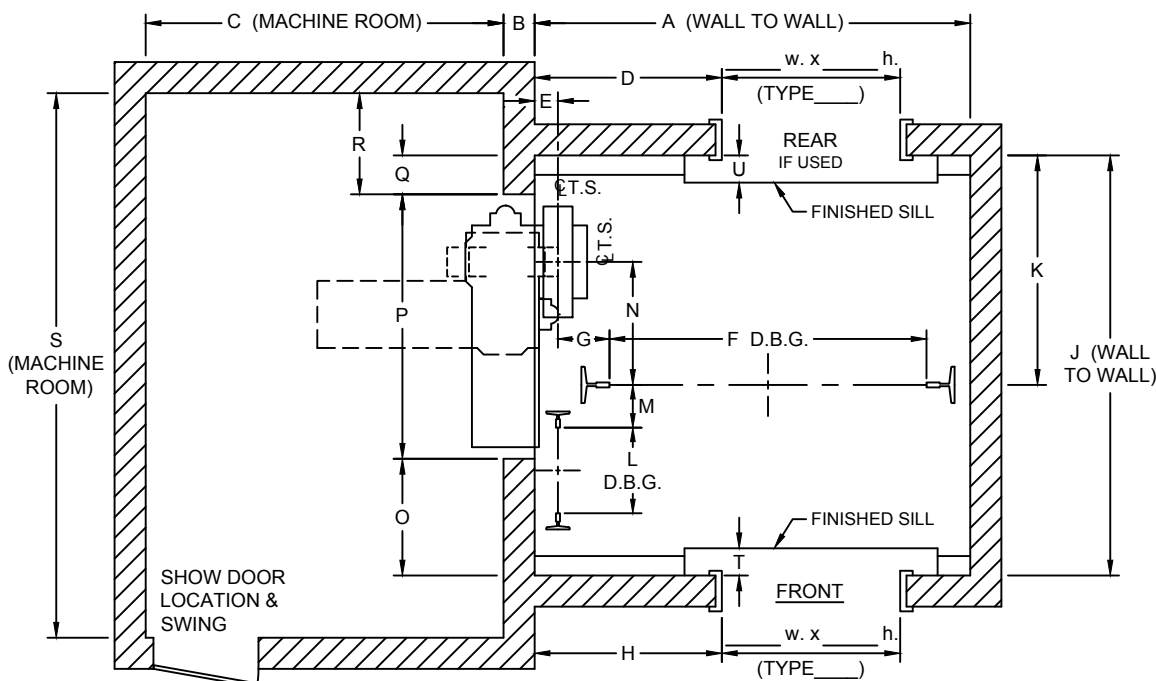
ENGINEERING CONTACT: _____ JOB NAME: _____
COMPANY: _____ ELEV. #: _____ H-W #: _____ DATE: _____
EMAIL: _____ FROM (H-W): _____
FAX NO: _____ FILL OUT SURVEY FORM AS COMPLETE AS POSSIBLE.

BASEMENT-SET, MACHINE AT SIDE & CWT ON SAME SIDE



OR
'X' OUT THE PLAN VIEW THAT DOES NOT APPLY

DIMENSIONS AT TIGHTEST POINT	
A	
B	
C	
D	
E	
F	
G	
H	
J	
K	
L	
M	
N	
O	
P	
Q	
R	
S	
T	
U	



RAIL DIMENSIONS		
	CAR	CWT.
BA		
BB		
BC		
LB./FT.		



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ENGINEERING CONTACT: _____

JOB NAME: _____

COMPANY: _____

ELEV. #: _____ H-W #: _____ DATE: _____

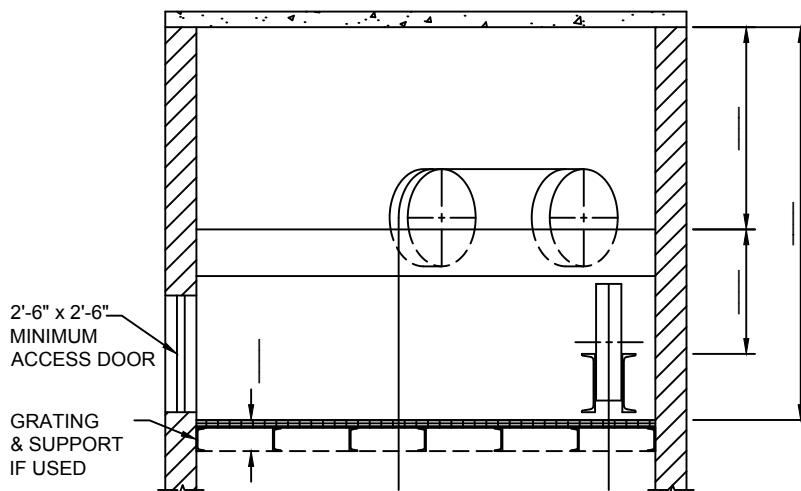
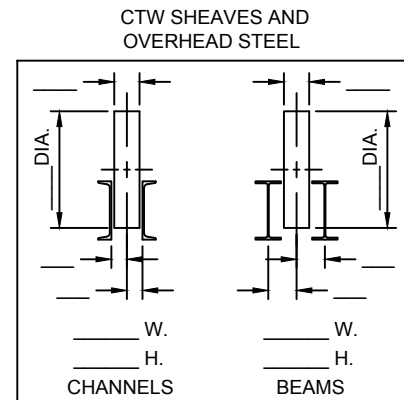
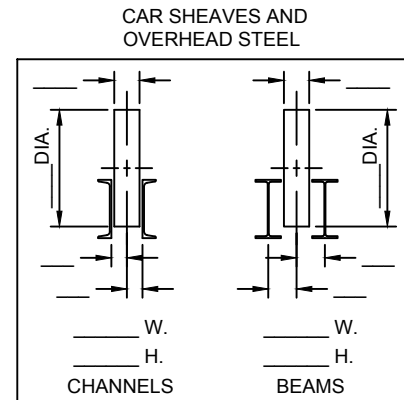
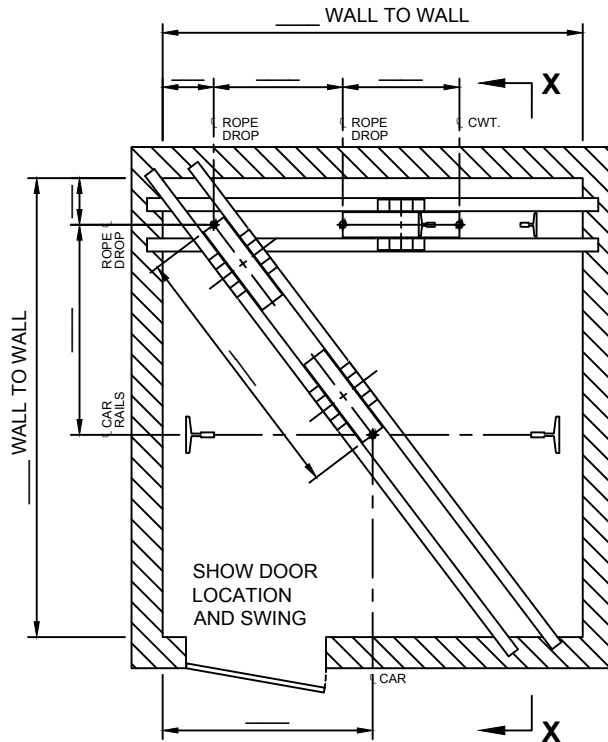
EMAIL: _____

FROM (H-W): _____

FAX NO: _____

FILL OUT SURVEY FORM AS COMPLETE AS POSSIBLE.

OVERHEAD STEEL BASEMENT-SET, MACHINE & CWT AT REAR



SECTION "X-X"



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JOB NAME: _____

COMPANY: _____

ELEV. #: _____ H-W #: _____ DATE: _____

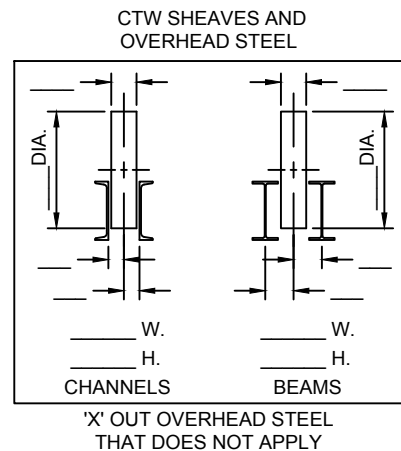
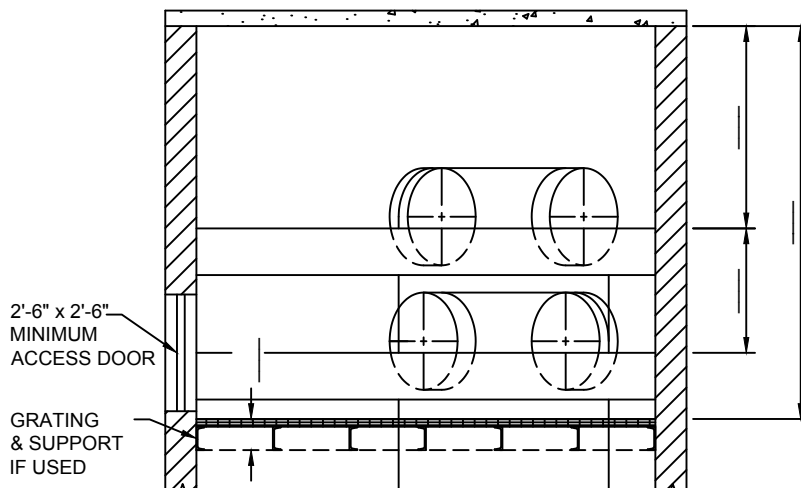
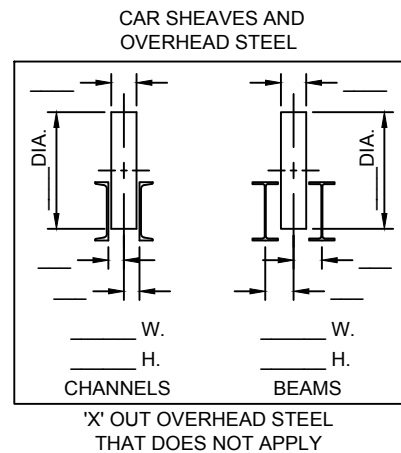
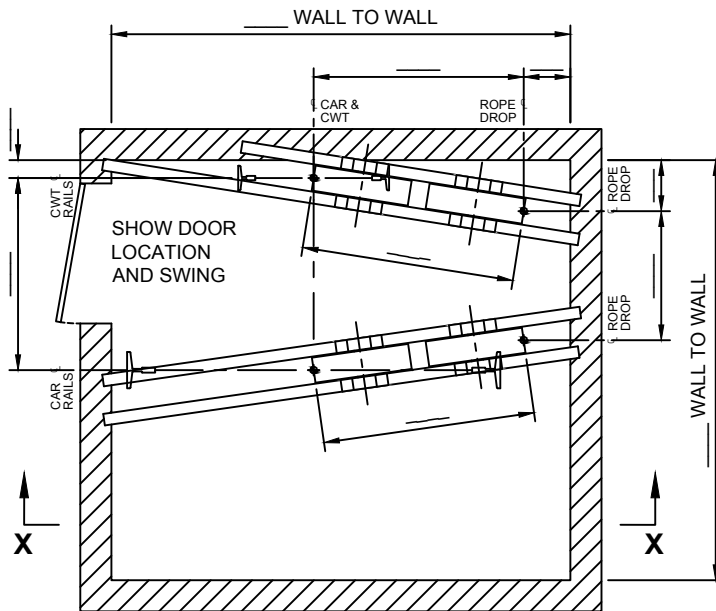
EMAIL: _____

FROM (H-W): _____

FAX NO: _____

FILL OUT SURVEY FORM AS COMPLETE AS POSSIBLE.

OVERHEAD STEEL BASEMENT-SET, MACHINE AT SIDE & CWT AT REAR





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JOB NAME: _____

COMPANY: _____

ELEV. #: _____ H-W #: _____ DATE: _____

EMAIL: _____

FROM (H-W): _____

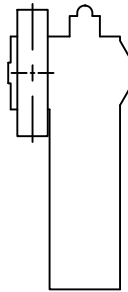
FAX NO: _____

FILL OUT SURVEY FORM AS COMPLETE AS POSSIBLE.

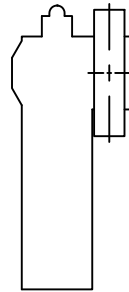
EXISTING BASEMENT MACHINE SURVEY (FOR LAYOUTS)

INSTRUCTIONS:

1. SELECT "HAND" OF MACHINE.
2. SELECT "TYPE" OF MACHINE ARRANGEMENT

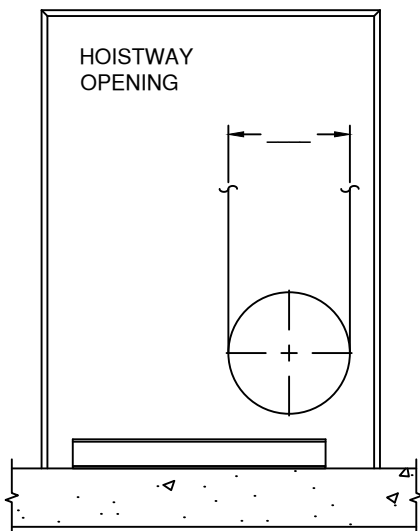


☐ LEFT HAND

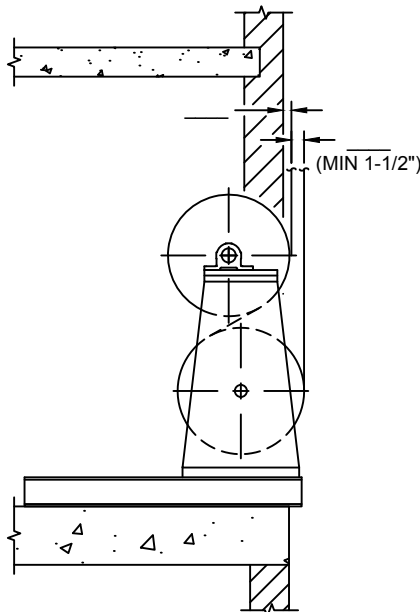


☐ RIGHT HAND

"HAND" OF BASEMENT SET MACHINES

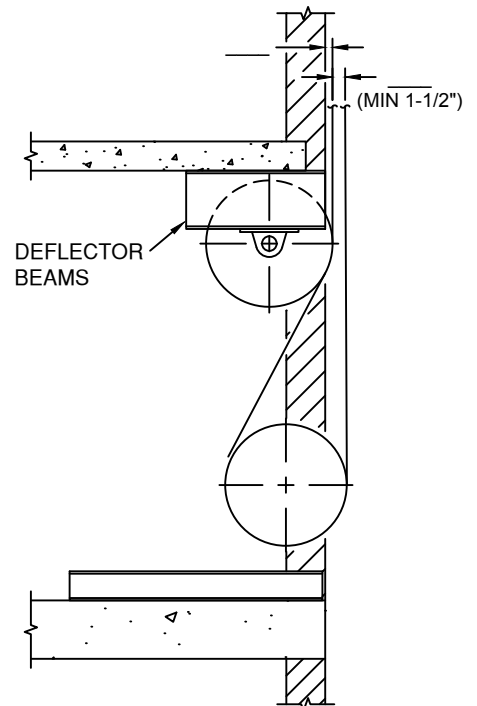


☐ "B.S." BASEMENT SET MACHINES



☐ "O.D." OVERHEAD DEFLECTOR
BASEMENT SET MACHINES
(WITH INTEGRATED
DEFLECTOR SHEAVE)

"TYPE" OF BASEMENT SET MACHINES



☐ "B.S." BASEMENT SET MACHINES
(WITH SEPARATE
DEFLECTOR SHEAVE)



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JOB NAME: _____

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ELEV. #: _____ H-W #: _____ DATE: _____

EMAIL: _____

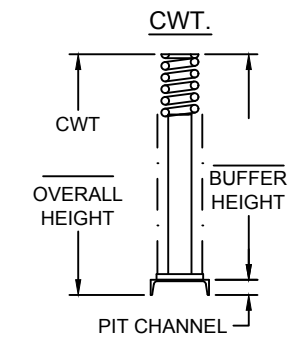
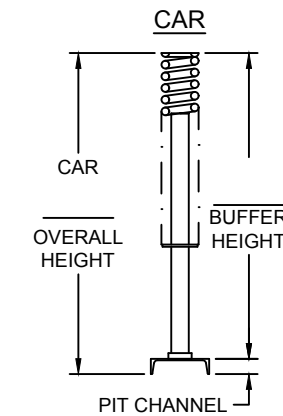
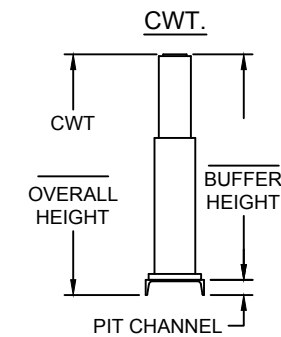
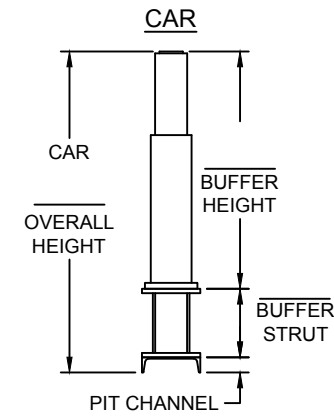
FROM (H-W): _____

FAX NO: _____

FILL OUT SURVEY FORM AS COMPLETE AS POSSIBLE.

EXISTING BUFFERS, PIT CHANNELS, SAFETIES, GOVERNORS, TENSION WEIGHTS, MACHINE/SHEAVES

EXISTING BUFFERS

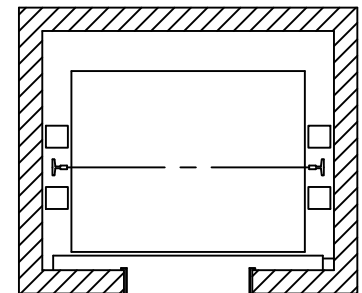
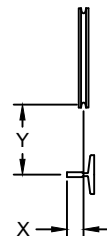


EXISTING OIL BUFFERS

EXISTING SPRING BUFFERS

EXISTING SAFETY / GOVERNOR / TENSION WGT.

- ☐ SAFETY PULL-THRU IN POUNDS? _____
- ☐ INDICATE QUADRANT FOR GOVERNOR / TENSION WEIGHT
- ☐ INDICATE IF GOVERNOR FACES OUTWARD
- ☐ LOCATION OF SAFETY PICK-UP ARM? X=_____ Y=_____
- ☐ ROPE DIAMETER? _____
- ☐ RAIL SIZE? _____
- ☐ STILE CHANNEL SIZE? _____



EXISTING MACHINE / SHEAVES

- ☐ HOIST ROPES: QUANTITY _____ DIAMETER _____
- ☐ PITCH OF HOIST ROPES? (¢ TO ¢ OF GROOVES ON FACE OF TRACTION SHEAVE): _____
- ☐ HAND OF MACHINE? (STANDING AT MOTOR END, WHICH SIDE IS T.S. LOCATED ON?) _____
- ☐ ROPING - 1:1 OR 2:1? _____
- ☐ DIAMETER OF EXISTING DEFLECTOR SHEAVE? _____
- ☐ DIAMETER OF EXISTING OVERHEAD SHEAVES? _____
- ☐ DIAMETER OF EXISTING CAR SHEAVE(S) _____
- ☐ DIAMETER OF EXISTING CWT. SHEAVE? _____



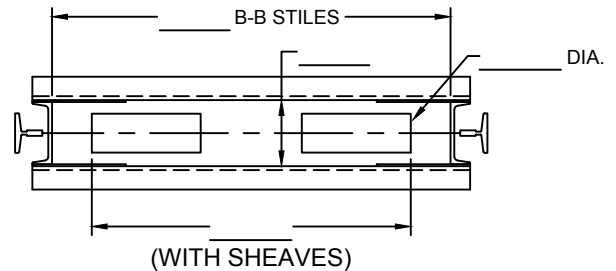
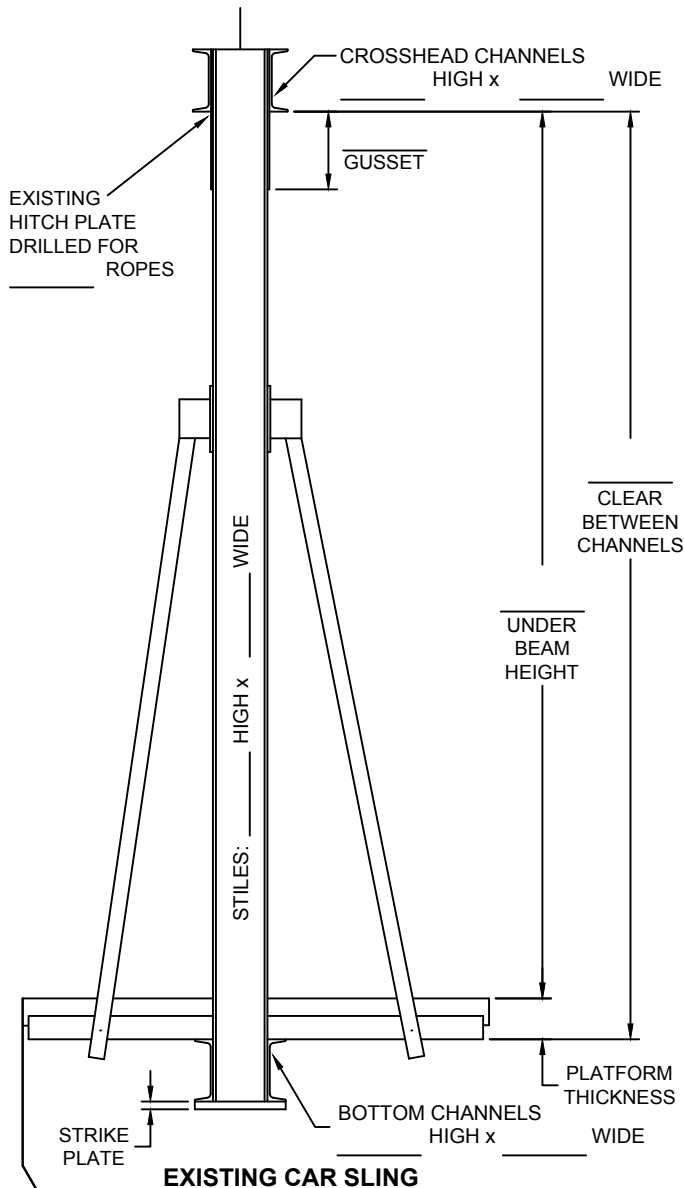
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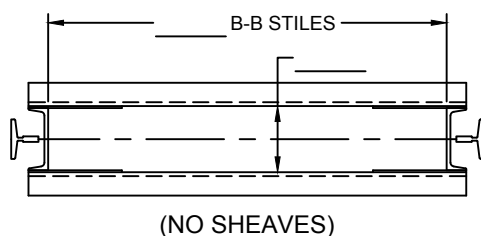
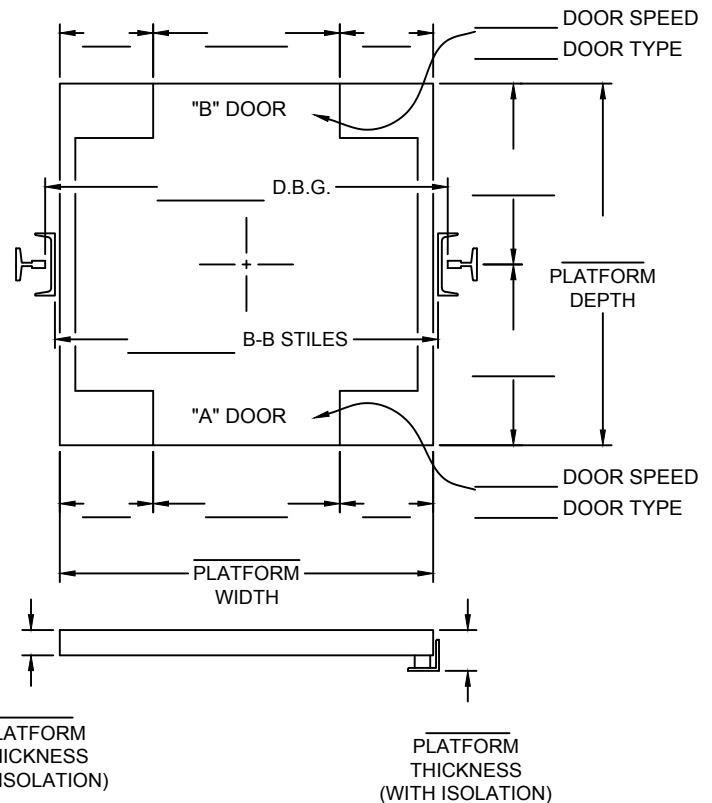
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COMPANY: _____ ELEV. #: _____ H-W #: _____ DATE: _____
EMAIL: _____ FROM (H-W): _____
FAX NO: _____ FILL OUT SURVEY FORM AS COMPLETE AS POSSIBLE.

EXISTING CAR SLING AND PLATFORM



EXISTING PLATFORM



EXISTING WEIGHTS / DUTY

EXISTING TOTAL EMPTY CAR WEIGHT: _____
EXISTING CAPACITY RATING: _____
EXISTING CAR SPEED: _____
EXISTING LOAD CLASSIFICATION: _____
(PASSENGER OR CLASS A, B, C1, C2, C3)



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ELEV. #: _____ H-W #: _____ DATE: _____

EMAIL: _____

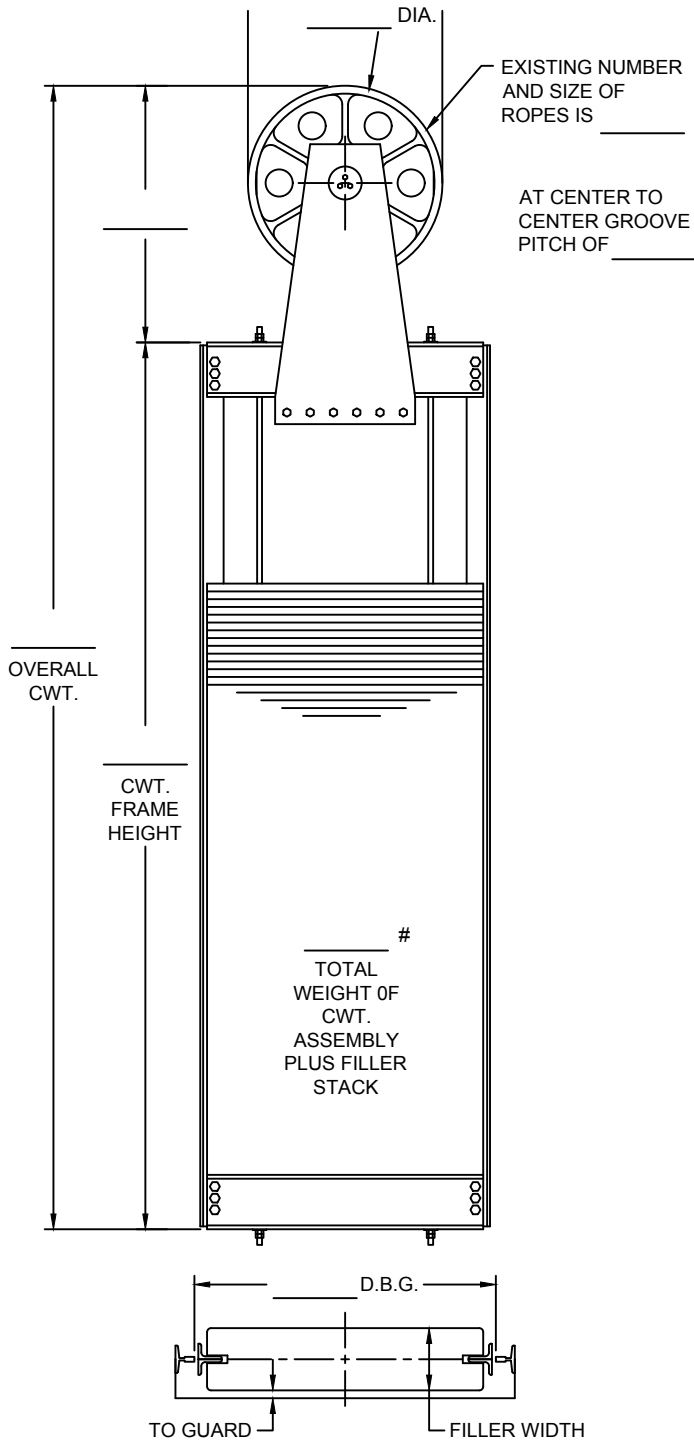
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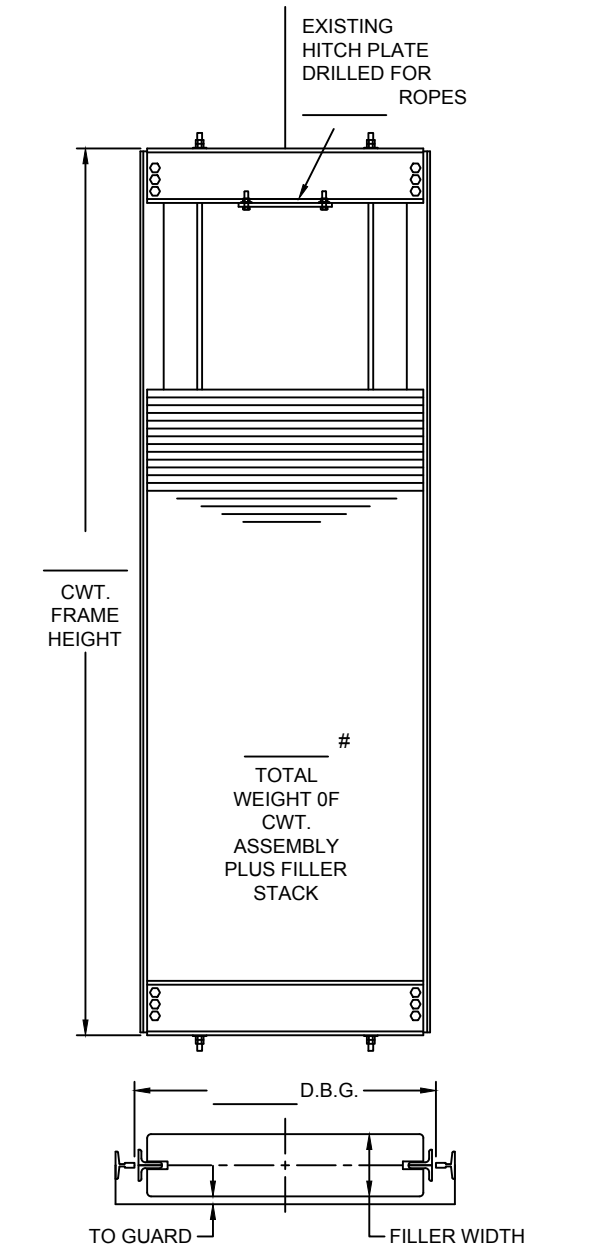
FILL OUT SURVEY FORM AS COMPLETE AS POSSIBLE.

EXISTING COUNTERWEIGHT FRAME (WITH AND WITHOUT SHEAVE)

EXISTING COUNTERWEIGHT WITH SHEAVE



EXISTING COUNTERWEIGHT WITHOUT SHEAVE





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SURVEYS FOR EQUIPMENT FABRICATION



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COMPANY: _____
EMAIL: _____
FAX NO: _____

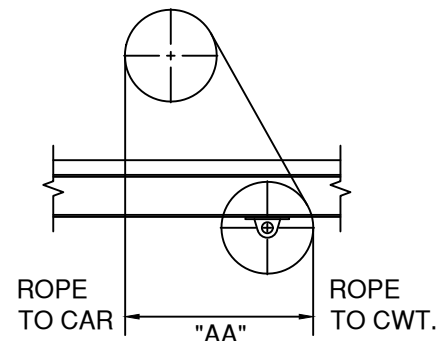
JOB NAME: _____
ELEV. #: _____ H-W #: _____
FROM (H-W): _____
DATE: _____

INFORMATION REQUIRED TO MANUFACTURE GEARED OVERHEAD MACHINES

GEARED MACHINES- OVERHEAD APPLICATION

ENGINEERING INFORMATION: WE REQUIRE ALL MARKED ITEMS

- ☐ CAPACITY: _____
- ☐ CAR SPEED: _____
- ☐ EMPTY CAR WEIGHT: _____
- ☐ HAND OF MACHINE: _____
- ☐ ROPING (1:1 OR 2:1): _____
- ☐ TRAVEL: _____
- ☐ HOIST ROPES: QUANTITY _____ SIZE _____
- ☐ PITCH OF HOIST ROPES (C.L. TO C.L. OF GROOVES ON FACE OF TRACTION SHV): _____
(H-W STANDARD PITCH IS: ROPE DIAMETER + 1/4")
- ☐ CERTIFIED OUTLINE DIMENSION PRINTS OF MOTOR WITH FULL LOAD R.P.M. INCLUDED
- ☐ MOTOR POWER SUPPLY: _____ VOLTAGE
- ☐ FOR EXISTING MOTORS ONLY, PLEASE FILL IN DIMENSIONS ON ENCLOSED BULL. 1109
- ☐ ASME A17 CODE COMPLIANCE TO WHICH YEAR REVISION: _____
- ☐ SEISMIC ZONE: _____
- ☐ DO YOU HAVE AN EXISTING DEFLECTOR SHEAVE: _____
 - ☐ IF NOT, WHAT DIAMETER TRACTION SHEAVE IS REQUIRED: _____
- ☐ DO THE HOIST ROPES DROP STRAIGHT DOWN TO THE CAR HITCH
AS SHOWN IN SKETCH "A"? _____
- ☐ PROVIDE THE CAR TO CWT. ROPE DROP DISTANCE: _____
(SEE SKETCH "A" - DIM. "AA")



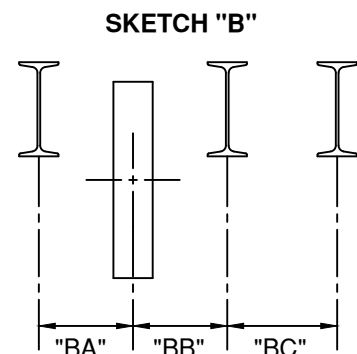
SKETCH "A"

SHEAVES

- ☐ HOIST ROPES: QUANTITY _____ SIZE _____
- ☐ PITCH OF HOIST ROPES: _____
- ☐ BEAM / CHANNEL SIZE: _____ " H x _____ " W
- ☐ BEAM SPACING (SEE SKETCH "B" - DIM. "BA", "BB" & "BC")
- ☐ IF DEFLECTOR MOUNTING IN MACHINE ROOM
SEE ATTACHED SURVEY E-147

MACHINE ISOLATION

- ☐ IS FLOOR SLAB EXISTING? _____
- ☐ FLOOR SLAB THICKNESS: _____
(ABOVE MACHINE BEAMS)
- ☐ BEAM / CHANNEL SIZE: _____ " H x _____ " W
- ☐ BEAM SPACING (SEE SKETCH "B" - DIM. "BA", "BB" & "BC")



SKETCH "B"



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EMAIL: _____

FROM (H-W): _____

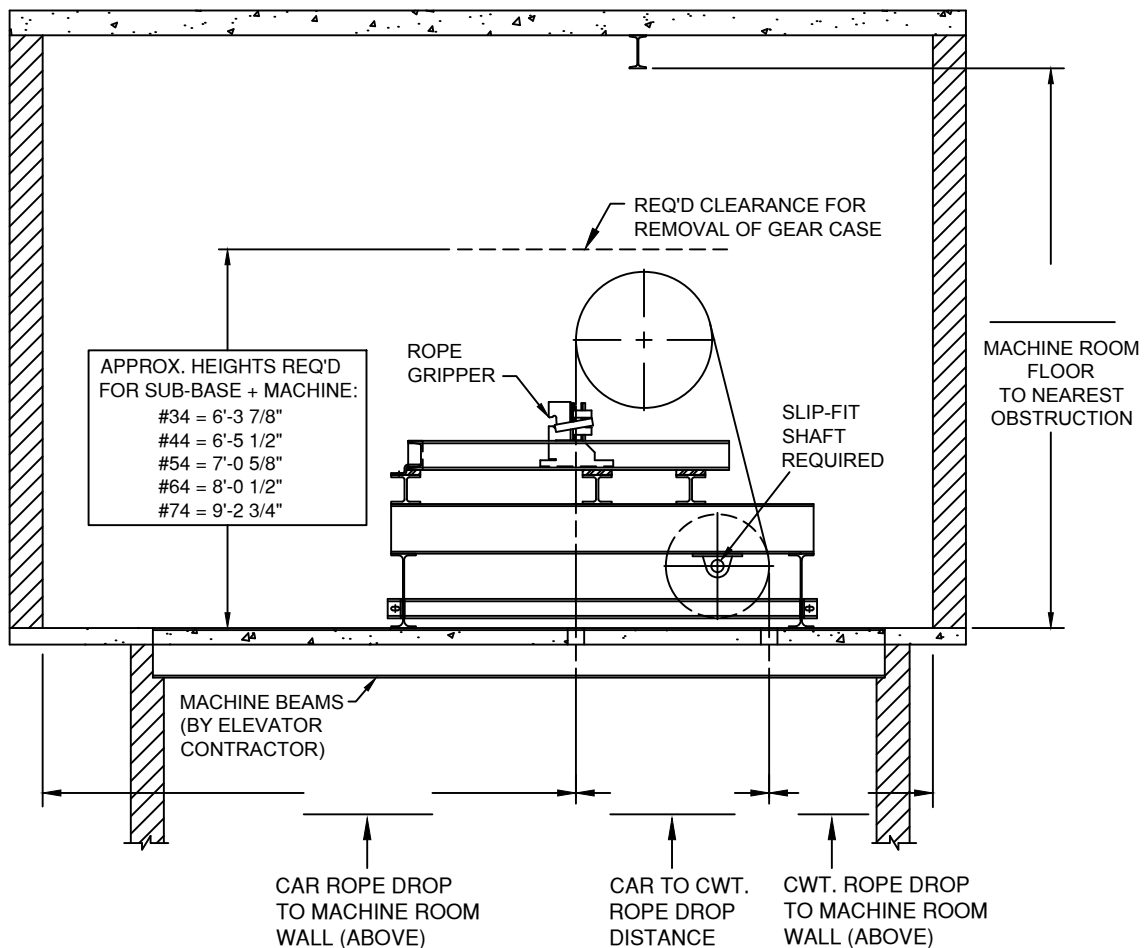
FAX NO: _____

DATE: _____

INFORMATION REQUIRED TO MANUFACTURE GEARED MACHINE BLOCK-UP ASSEMBLY

INSTRUCTIONS:

1. FILL IN OPEN DIMENSIONS BELOW.
2. EMPTY CAR WEIGHT: _____
3. PROVIDE MACHINE ROOM PLAN SKETCH.
 - a. SHOW LOCATION OF CAR AND CWT. RAILS.
 - b. PROVIDE MACHINE BEAM SPACING LOCATING CENTERLINE SHEAVE TO CENTERLINE OF MACHINE BEAMS.
 - c. MACHINE BEAM SIZE _____ H. x _____ W.





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COMPANY: _____

ELEV. #: _____ H-W #: _____

EMAIL: _____

FROM (H-W): _____

FAX NO: _____

DATE: _____

INFORMATION REQUIRED TO MANUFACTURE GEARLESS OVERHEAD MACHINES

GEARLESS MACHINES- OVERHEAD APPLICATION

**ENGINEERING INFORMATION:
WE REQUIRE ALL MARKED ITEMS**

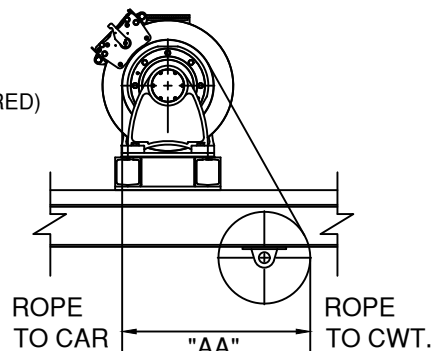
- ☐ CAPACITY: _____
- ☐ CAR SPEED: _____
- ☐ EMPTY CAR WEIGHT: _____
- ☐ ROPING (1:1 OR 2:1): _____
- ☐ TRAVEL: _____
- ☐ HOIST ROPES: QUANTITY _____ SIZE _____
- ☐ PITCH OF HOIST ROPES (C.L. TO C.L. OF GROOVES ON FACE OF TRACTION SHV): _____
- ☐ ARE YOU RETAINING AN EXISTING DEFLECTOR SHEAVE: _____ DIA. _____
- ☐ IF NOT, WHAT DIAMETER TRACTION SHEAVE IS REQUIRED (15", 20", 25" AVAILABLE): _____
- ☐ PROVIDE THE CAR TO CWT. ROPE DROP DISTANCE (SEE SKETCH "A" - DIM "AA"): _____
- ☐ MACHINE POWER SUPPLY: _____ VOLTAGE
- ☐ CONTROLLER MANUFACTURER: _____
- ☐ DRIVE MANUFACTURER: ☐ KEB ☐ MAGNETEK ☐ OTHER (CABLE BY CUSTOMER)
- ☐ IS MANUAL BRAKE RELEASE CABLE REQUIRED? _____
IF SO, SPECIFY LENGTH (STD. IS 8'-0"): _____
(IF USING G.A.L. CONTROL, CONFIRM WITH THEM IF BRAKE RELEASE CABLE IS REQUIRED)
- ☐ ENCODER CABLE LENGTH (STD. IS 20 METER [65.6']): _____
- ☐ ASME A17 CODE COMPLIANCE TO WHICH YEAR REVISION: _____
- ☐ SEISMIC ZONE: _____

SHEAVES

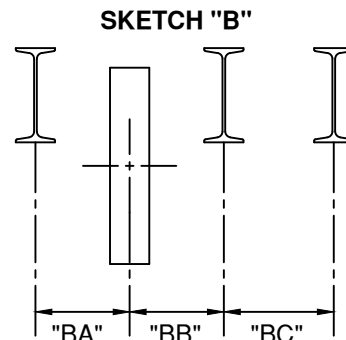
- ☐ HOIST ROPES: QUANTITY _____ SIZE _____
- ☐ PITCH OF HOIST ROPES: _____
- ☐ BEAM SPACING (SEE SKETCH "B" - DIM. "BA", "BB" & "BC")
- ☐ IF DEFLECTOR MOUNTING IN MACHINE ROOM
SEE ATTACHED SURVEY E-147

MACHINE ISOLATION

- ☐ IS FLOOR SLAB EXISTING: _____
- ☐ FLOOR SLAB THICKNESS: _____
(ABOVE MACHINE BEAMS)
- ☐ BEAM / CHANNEL SIZE: _____" H x _____" W
- ☐ BEAM SPACING (SEE SKETCH "B" - DIM. "BA", "BB" & "BC")



SKETCH "A"



SKETCH "B"



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ENGINEERING CONTACT: _____

JOB NAME: _____

COMPANY: _____

ELEV. #: _____ H-W #: _____

EMAIL: _____

FROM (H-W): _____

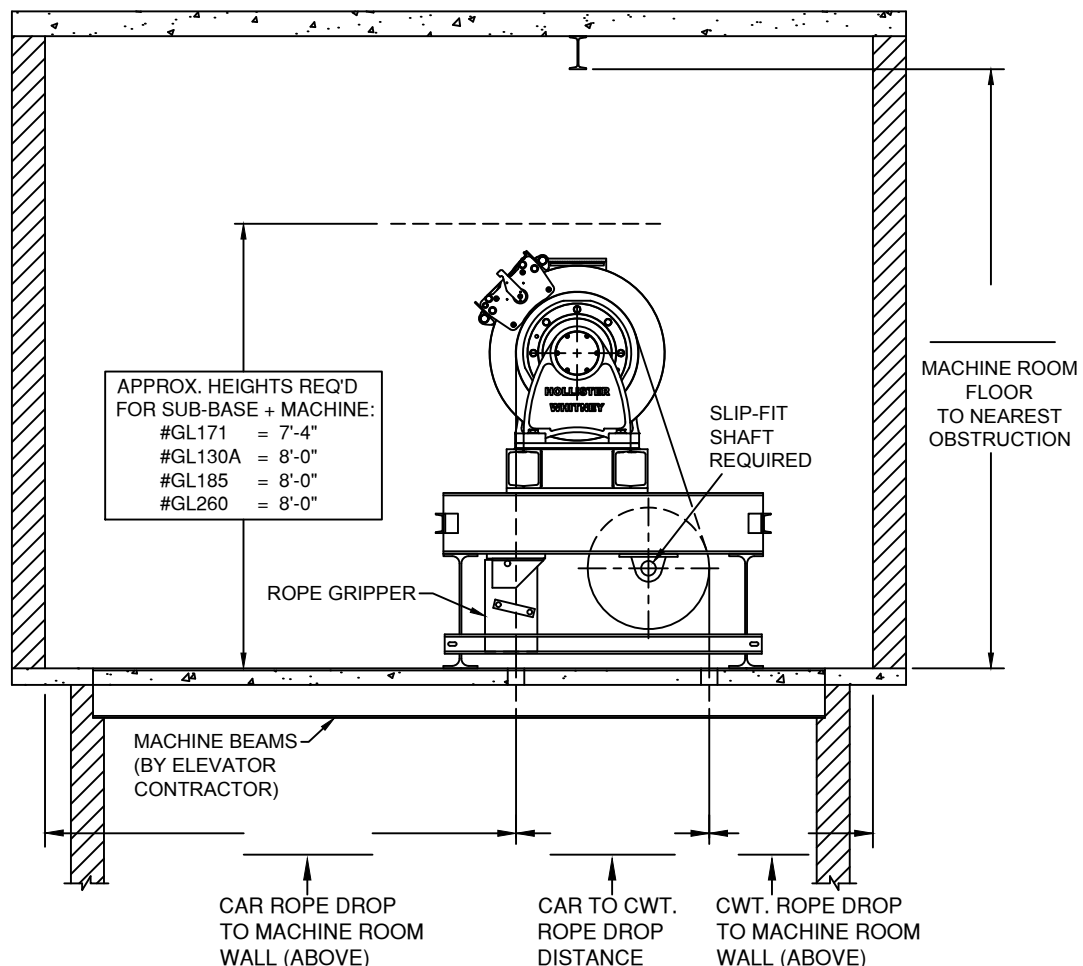
FAX NO: _____

DATE: _____

INFORMATION REQUIRED TO MANUFACTURE GEARLESS MACHINE BLOCK-UP ASSEMBLY

INSTRUCTIONS:

1. FILL IN OPEN DIMENSIONS ABOVE.
2. EMPTY CAR WEIGHT: _____
3. HAND OF BLOCK-UP ASSEMBLY - LEFT OR RIGHT: _____
RIGHT HAND - DEFLECTOR TO RIGHT OF MACHINE WHEN LOOKING AT
AT TRACTION SHEAVE (AS SHOWN ABOVE)
LEFT HAND - DEFLECTOR TO LEFT OF MACHINE WHEN LOOKING AT
TRACTION SHEAVE (OPPOSITE OF ABOVE)
4. PROVIDE MACHINE ROOM PLAN SKETCH.
 - a. SHOW LOCATION OF CAR AND CWT. RAILS.
 - b. PROVIDE MACHINE BEAM SPACING LOCATING CENTERLINE SHEAVE TO
CENTERLINE OF MACHINE BEAMS.
 - c. MACHINE BEAM SIZE _____ H. x _____ W.





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ENGINEERING CONTACT: _____

JOB NAME: _____

COMPANY: _____

ELEV. #: _____ H-W #: _____

EMAIL: _____

FROM (H-W): _____

FAX NO: _____

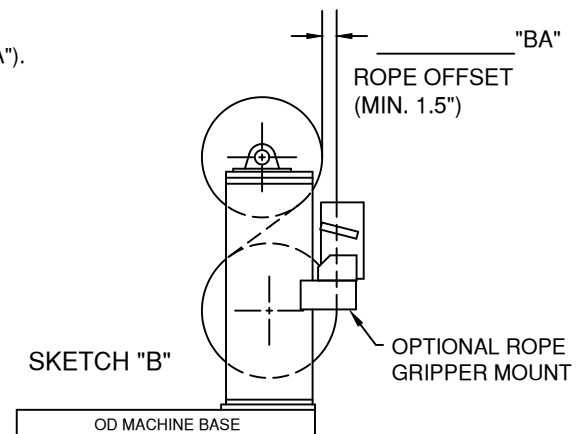
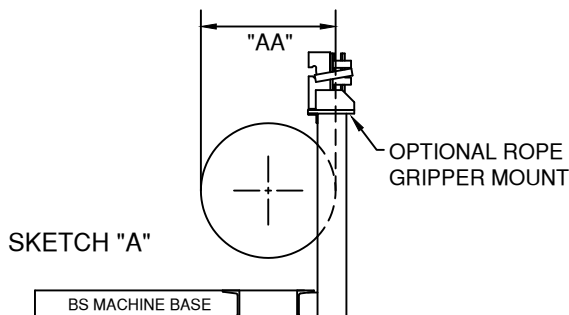
DATE: _____

INFORMATION REQUIRED TO MANUFACTURE GEARED BASEMENT SET MACHINES

GEARED MACHINES- BASEMENT APPLICATION

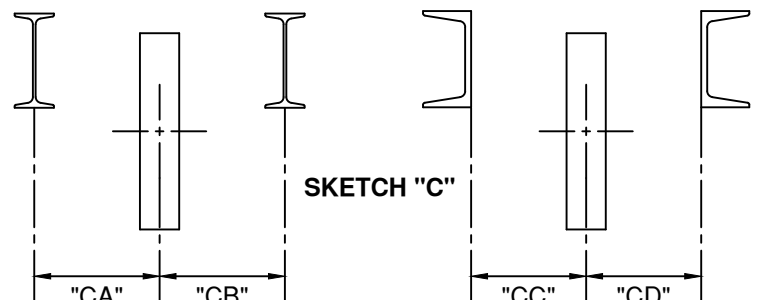
- ☐ CAPACITY: _____
- ☐ CAR SPEED: _____
- ☐ EMPTY CAR WEIGHT: _____
- ☐ HAND OF MACHINE: _____
- ☐ ROPING (1:1 OR 2:1): _____
- ☐ TRAVEL: _____
- ☐ HOIST ROPES: QUANTITY _____ SIZE _____
- ☐ PITCH OF HOIST ROPES (C.L. TO C.L. OF GROOVES ON FACE OF TRACTION SHV): _____
(H-W STANDARD PITCH IS: ROPE DIAMETER + 1/4")
- ☐ CERTIFIED OUTLINE DIMENSION PRINTS OF MOTOR WITH FULL LOAD R.P.M. INCLUDED
- ☐ MOTOR POWER SUPPLY: _____ VOLTAGE
- ☐ FOR EXISTING MOTORS ONLY, PLEASE FILL IN DIMENSIONS ON ENCLOSED BULL. 1109
- ☐ ASME A17 CODE COMPLIANCE TO WHICH YEAR REVISION: _____
- ☐ SEISMIC ZONE: _____
- ☐ "BS" BASEMENT MACHINES, WHAT TRACTION SHEAVE DIAMETER IS REQUIRED: _____
(SEE SKETCH "A" - DIM. "AA")
- ☐ "OD" BASEMENT MACHINES, PROVIDE ROPE OFFSET (SEE SKETCH "B" - DIM. "BA").
- ☐ IS ROPE GRIPPER MOUNTING REQUIRED ON THE MACHINE: _____

**ENGINEERING INFORMATION:
WE REQUIRE ALL MARKED ITEMS**



SHEAVES (OVERHEAD/CAR/CWT.)

- ☐ QUANTITY: CAR SHVS. _____ CWT. SHVS. _____
- ☐ DIAMETER: CAR SHVS. _____ CWT. SHVS. _____
- ☐ HOIST ROPES: QUANTITY _____
- ☐ HOIST ROPES: SIZE _____
- ☐ PITCH OF HOIST ROPES: _____
- ☐ BEAM / CHANNEL SIZE: _____ " H x _____ " W
- ☐ BEAM SPACING : _____
(SEE SKETCH "C" - DIM. "CA"/ "CB" OR "CC"/ "CD")





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layouts@hwec.com
engineering@hwec.com

ENGINEERING CONTACT: _____

JOB NAME: _____

COMPANY: _____

ELEV. #: _____ H-W #: _____

EMAIL: _____

FROM (H-W): _____

FAX NO: _____

DATE: _____

INFORMATION REQUIRED TO MANUFACTURE GEARLESS BASEMENT MACHINES

GEARLESS MACHINES- BASEMENT APPLICATION

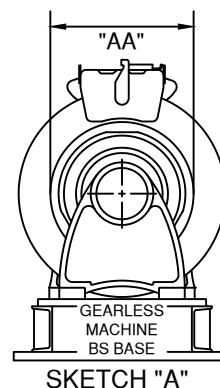
- ☐ CAPACITY: _____
- ☐ CAR SPEED: _____
- ☐ EMPTY CAR WEIGHT: _____
- ☐ ROPING (1:1 OR 2:1): _____
- ☐ TRAVEL: _____
- ☐ HOIST ROPES: QUANTITY _____ SIZE _____
- ☐ PITCH OF HOIST ROPES (C.L. TO C.L. OF GROOVES ON FACE OF TRACTION SHV): _____
(H-W STANDARD PITCH IS: ROPE DIAMETER + 1/4")
- ☐ MACHINE POWER SUPPLY: _____ VOLTAGE
- ☐ CONTROLLER MANUFACTURER: _____
- ☐ DRIVE MANUFACTURER: ☐ KEB ☐ MAGNETEK ☐ OTHER (CABLE BY CUSTOMER)
- ☐ IS MANUAL BRAKE RELEASE CABLE REQUIRED? _____ IF SO, SPECIFY LENGTH (STD. IS 8'-0"): _____
(IF USING G.A.L. CONTROL, CONFIRM WITH THEM IF BRAKE RELEASE CABLE IS REQUIRED)
- ☐ ENCODER CABLE LENGTH (STD. IS 20 METER [65.6']): _____
- ☐ ASME A17 CODE COMPLIANCE TO WHICH YEAR REVISION: _____
- ☐ SEISMIC ZONE: _____
- ☐ WHAT TRACTION SHEAVE DIAMETER IS REQUIRED: ☐ 20" DIA. ☐ 25" DIA.

**ENGINEERING INFORMATION:
WE REQUIRE ALL MARKED ITEMS**

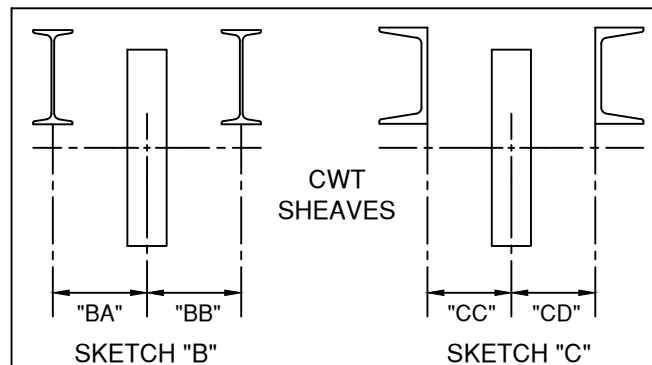
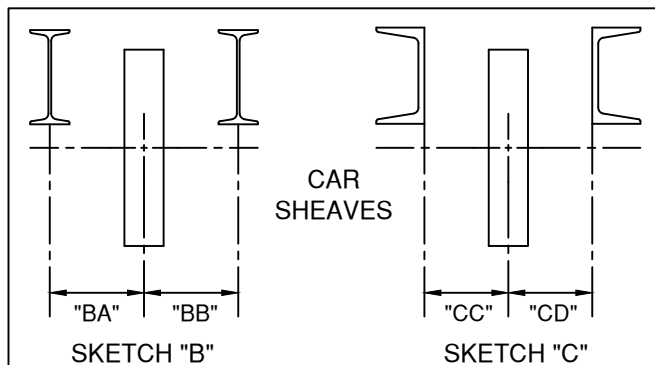
SHEAVES (OVERHEAD/CAR/CWT.)

- ☐ QUANTITY: CAR SHVS. _____ CWT. SHVS. _____
- ☐ DIAMETER: CAR SHVS. _____ CWT. SHVS. _____
- ☐ HOIST ROPES: QUANTITY _____
- ☐ HOIST ROPES: SIZE _____
- ☐ PITCH OF HOIST ROPES: _____
- ☐ CAR BEAM / CHANNEL SIZE: _____" H x _____" W
- ☐ CWT BEAM / CHANNEL SIZE: _____" H x _____" W
- ☐ CAR & CWT BEAM / CHANNEL SPACING :
BEAMS - SKETCH "B" - DIMENSIONS "BA"/ "BB"
CHANNELS - SKETCH "C" - DIMENSIONS "CC"/ "CD"

(SEE SKETCH "A" - DIM. "AA")



SKETCH "A"





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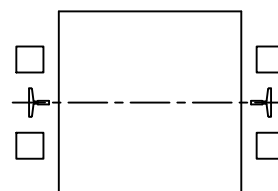
DATE: _____

INFORMATION REQUIRED TO MANUFACTURE SMALL COMPONENTS

SAFETIES

- ☐ EMPTY CAR WEIGHT: _____
- ☐ CAPACITY: _____
- ☐ COMPENSATION WEIGHT (IF APPL.): _____
- ☐ CAR SPEED: _____
- ☐ FACE TO FACE OF GUIDE RAILS: _____
- ☐ RAIL SIZE (IN LBS.): _____
- ☐ GOVERNOR LOCATION (SHOW ON SKETCH "D")
- ☐ STILE SIZE: _____

**ENGINEERING INFORMATION:
WE REQUIRE ALL MARKED ITEMS**



FRONT
SKETCH "D"

GOVERNORS

- ☐ CAR SPEED: _____
- ☐ TRIPPING SPEED: _____
- ☐ SHEAVE DIAMETER (12" OR 16"): _____
- ☐ GOVERNOR ROPE DIAMETER: _____
- ☐ GOVERNOR PULL-THRU (IN LBS.): _____ OR
TYPE OF EXIST. SAFETY (DRUM, GRADUAL, ETC.): _____
- ☐ HAND OR LOCATION (SHOW ON SKETCH "D")
- ☐ LIVE SHAFT DIAMETER: ☐ 12mm ☐ 0.25" ☐ 0.75" ☐ 1.00"

TENSION WEIGHTS

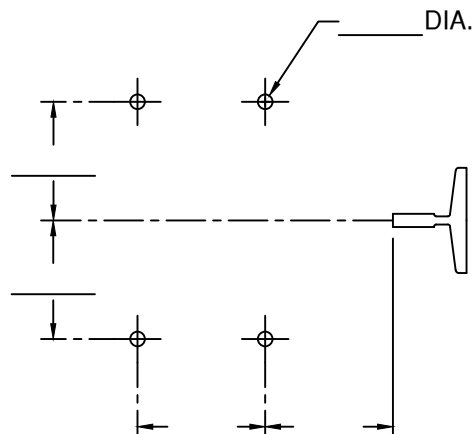
- ☐ RAIL SIZE (IN LBS.): _____
- ☐ SHEAVE DIAMETER (12" OR 16"): _____
- ☐ GOVERNOR ROPE DIAMETER: _____

SHOES AND PLATES

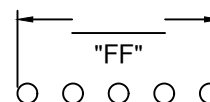
- ☐ SHOE TYPE: _____ MANUFACTURER: _____
- ☐ RAIL SIZE (IN LBS.): _____
- ☐ TEMPLATE (FILL IN ALL DIMS. ON SKETCH "E")

ROPE GRIPPERS

- ☐ EMPTY CAR WEIGHT: _____
- ☐ CAPACITY: _____
- ☐ COMPENSATION WGT. (IF APPL.): _____
- ☐ CAR SPEED: _____
- ☐ 1: 1 OR 2:1 ROPED: _____
- ☐ HOIST ROPES: QUANTITY _____ SIZE _____
- ☐ OUT-TO-OUT OF HOIST ROPES (SEE SKETCH "F" - DIM. "FF"): _____
- ☐ SPECIFY LENGTH OF HYDRAULIC HOSE REQUIRED
(27" STANDARD, UP TO 8'-0" MAX): _____
- ☐ GEARED GRIPPER POWER SUPPLY (115V OR 230V): _____ V.
- ☐ GEARED GRIPPER HAND (LEFT OR RIGHT): _____
(NOT REQUIRED IF MOUNTED ON OH MACHINE)



SKETCH "E"



SKETCH "F"



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DATE: _____

INFORMATION REQUIRED TO MANUFACTURE BUFFERS & PIT CHANNELS

☐ DUTY -

☐ SPEED: _____ ☐ CAPACITY: _____

☐ CAR: PLEASE PROVIDE -

☐ D.B.G.: _____

☐ RAIL SIZE: _____ (IN LBS.)

☐ CAR WEIGHT: _____

☐ BUFFER HEIGHT: _____

☐ OVERALL HEIGHT: _____

☐ DISTANCE BETWEEN BUFFERS: _____

☐ CWT: PLEASE PROVIDE -

☐ D.B.G.: _____

☐ RAIL SIZE: _____ (IN LBS.)

☐ CWT. WEIGHT: _____

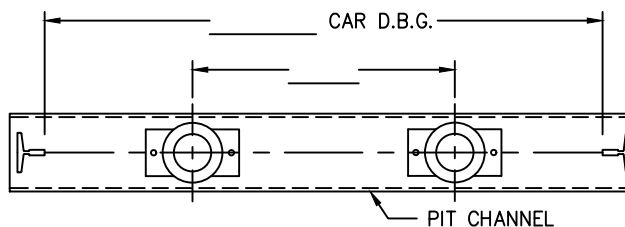
☐ BUFFER HEIGHT: _____

☐ OVERALL HEIGHT: _____

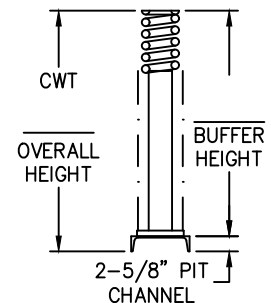
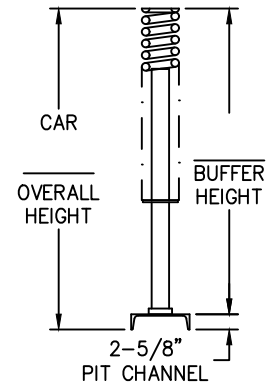
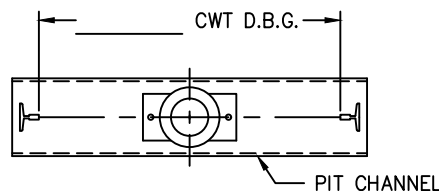
☐ PIT CHANNELS REQUIRED? ☐ CAR ☐ CWT

☐ HW PIT CHANNELS NORMALLY MOUNT UNDER THE THE GUIDE
RAILS OR THEY CAN BE CUT SHORT. ADVISE WHICH OPTION -

☐ NORMAL UNDER RAIL MOUNTING. ☐ CUT SHORT OF GUIDE RAILS



SPRING BUFFERS



☐ DUTY -

☐ SPEED: _____ ☐ CAPACITY: _____

☐ CAR: PLEASE PROVIDE -

☐ D.B.G.: _____

☐ RAIL SIZE: _____ (IN LBS.)

☐ CAR WEIGHT: _____

☐ BUFFER HEIGHT: _____

☐ OVERALL HEIGHT: _____

☐ CWT: PLEASE PROVIDE -

☐ D.B.G.: _____

☐ RAIL SIZE: _____ (IN LBS.)

☐ CWT. WEIGHT: _____

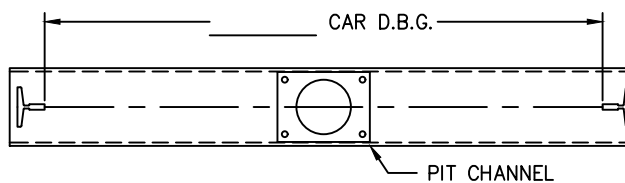
☐ BUFFER HEIGHT: _____

☐ OVERALL HEIGHT: _____

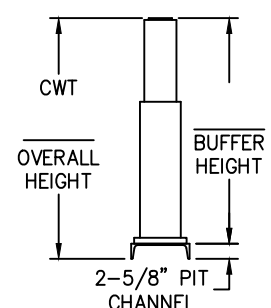
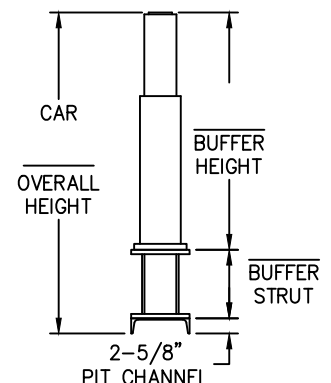
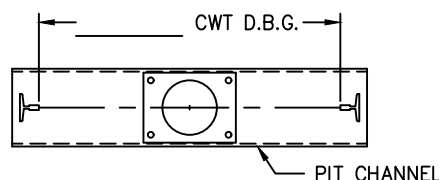
☐ PIT CHANNELS REQUIRED? ☐ CAR ☐ CWT

☐ HW PIT CHANNELS NORMALLY MOUNT UNDER THE THE GUIDE
RAILS OR THEY CAN BE CUT SHORT. ADVISE WHICH OPTION -

☐ NORMAL UNDER RAIL MOUNTING. ☐ CUT SHORT OF GUIDE RAILS



OIL BUFFERS





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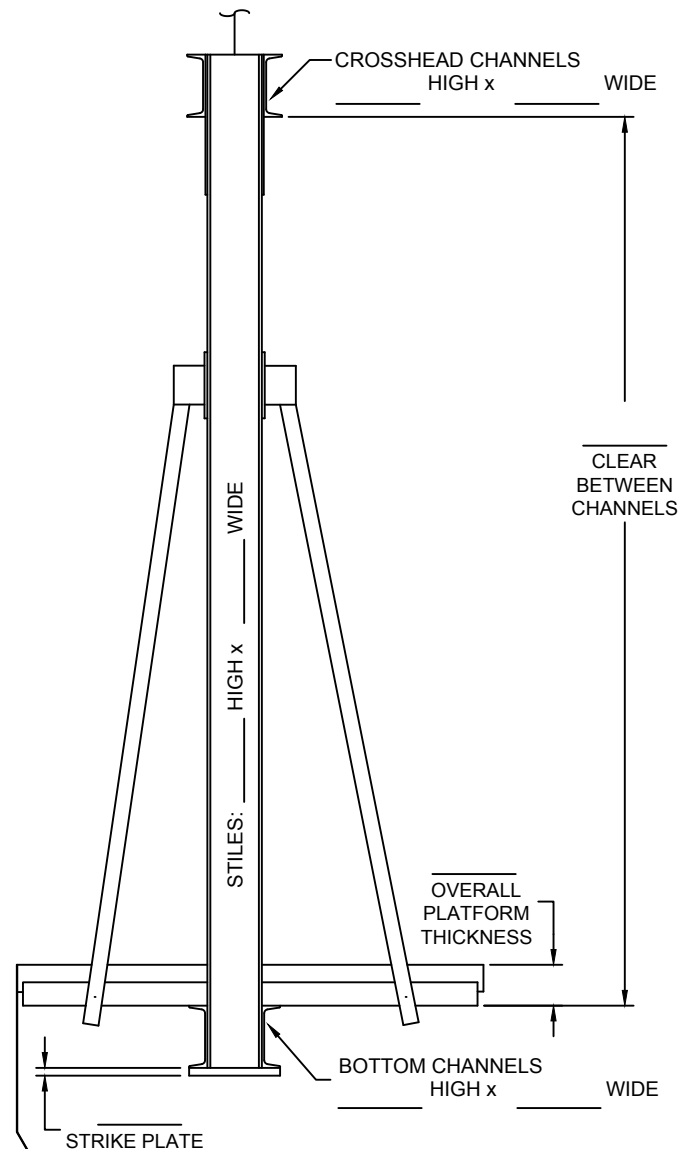
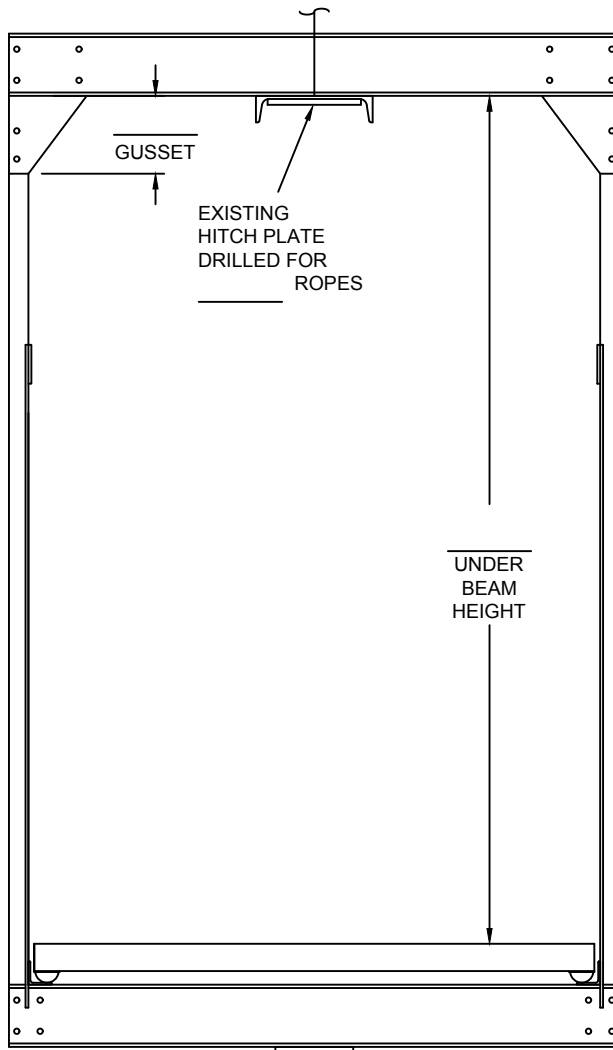
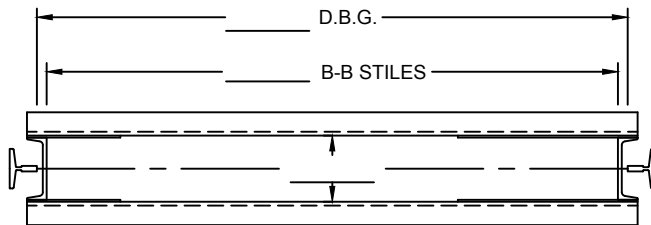
EMAIL: _____

FROM (H-W): _____

FAX NO: _____

DATE: _____

INFORMATION REQUIRED TO MANUFACTURE CAR SLINGS



WEIGHTS / DUTY

CAR SPEED: _____ CAPACITY RATING: _____

LOAD CLASSIFICATION: _____ TOTAL EMPTY CAR WEIGHT: _____

(PASSENGER OR CLASS A, B, C1, C2, C3)

FORM: E-112-4

PUR.#864 03-29-2018



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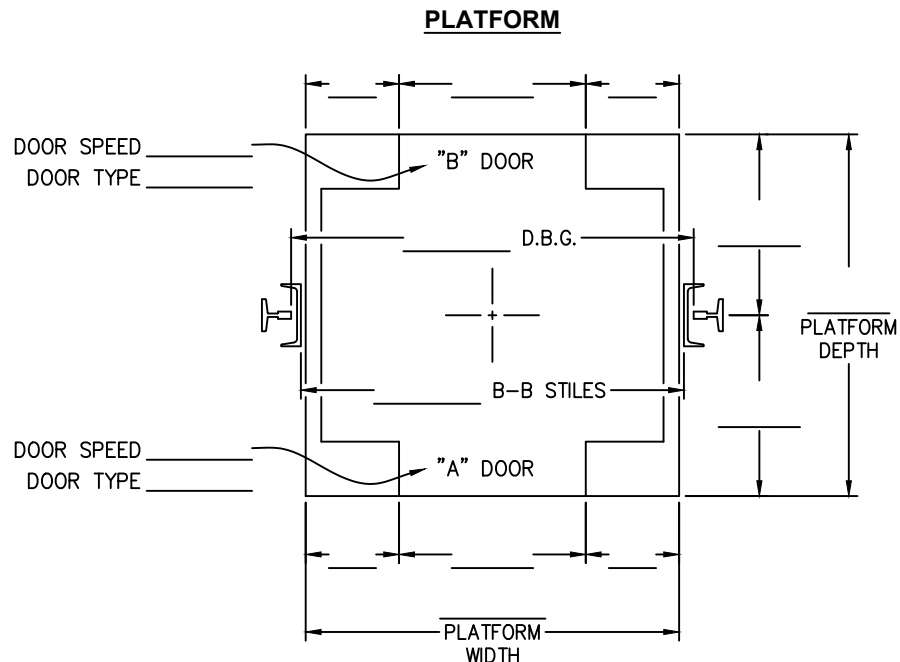
EMAIL: _____

FROM (H-W): _____

FAX NO: _____

DATE: _____

INFORMATION REQUIRED TO MANUFACTURE SIDE-POST PLATFORMS



REQUIRE INFORMATION MARKED BELOW:

- ☐ TOTAL EMPTY CAR WEIGHT: _____
- ☐ CAPACITY RATING: _____
- ☐ LOAD CLASSIFICATION: ☐ PASSENGER -OR- CLASS: ☐ A ☐ B ☐ C1 ☐ C2 ☐ C3
- ☐ DISTANCE BETWEEN GUIDES (D.B.G.): _____
- ☐ BACK TO BACK OF CAR SLING STILES: _____
- ☐ NUMBER OF DOOR OPENINGS: _____
- ☐ SPEED OF DOOR(S) SINGLE, 2-SPEED, OR 3-SPEED: "A" DOOR - _____ : "B" DOOR - _____
- ☐ TYPE OF DOOR(S) SIDE SLIDE OR CENTER OPENING: "A" DOOR - _____ : "B" DOOR - _____
- ☐ SIZE OF THE DOOR(S) -
 - ☐ "A" DOOR; WIDTH: _____ BY HEIGHT: _____
 - ☐ "B" DOOR; WIDTH: _____ BY HEIGHT: _____
- ☐ LOCATION OF THE DOOR(S) BY FILLING IN THE DIMENSIONS OF EACH SIDE OF THE DOOR(S), ON ABOVE SKETCH.
- ☐ IF ALL STEEL PLATFORM, CAR SILL DETAIL IS REQUIRED: _____



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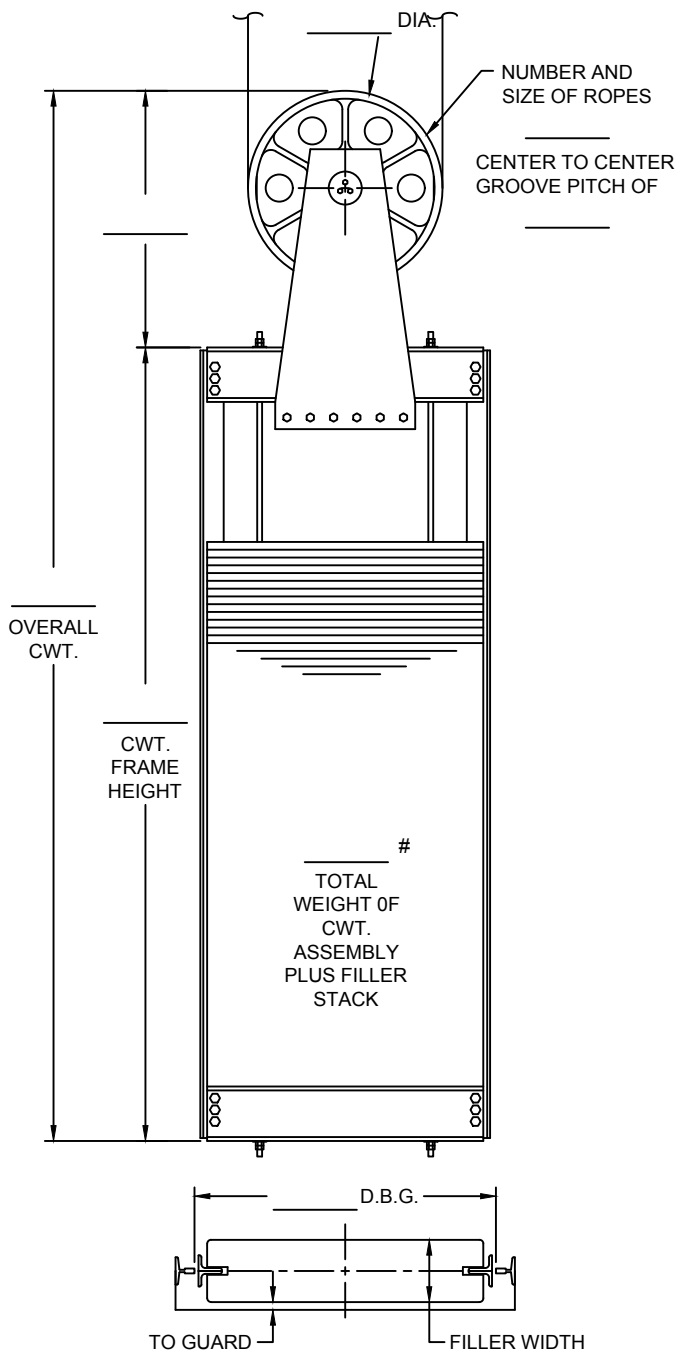
ELEV. #: _____ H-W #: _____

FROM (H-W): _____

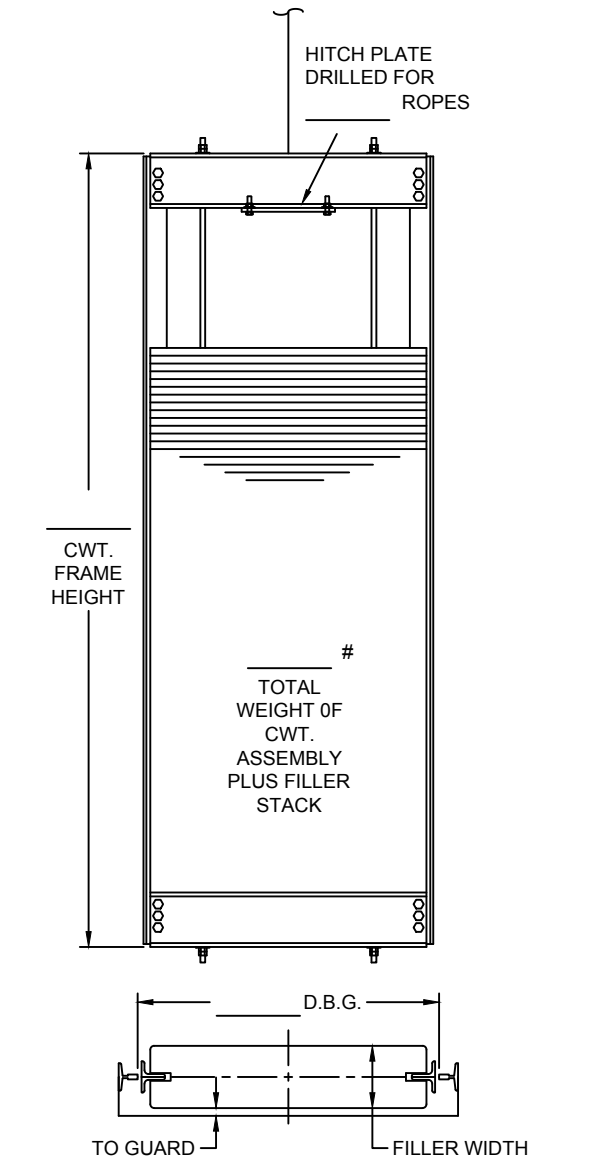
DATE: _____

INFORMATION REQUIRED TO MANUFACTURE COUNTERWEIGHT FRAMES

COUNTERWEIGHT WITH SHEAVE



COUNTERWEIGHT WITHOUT SHEAVE





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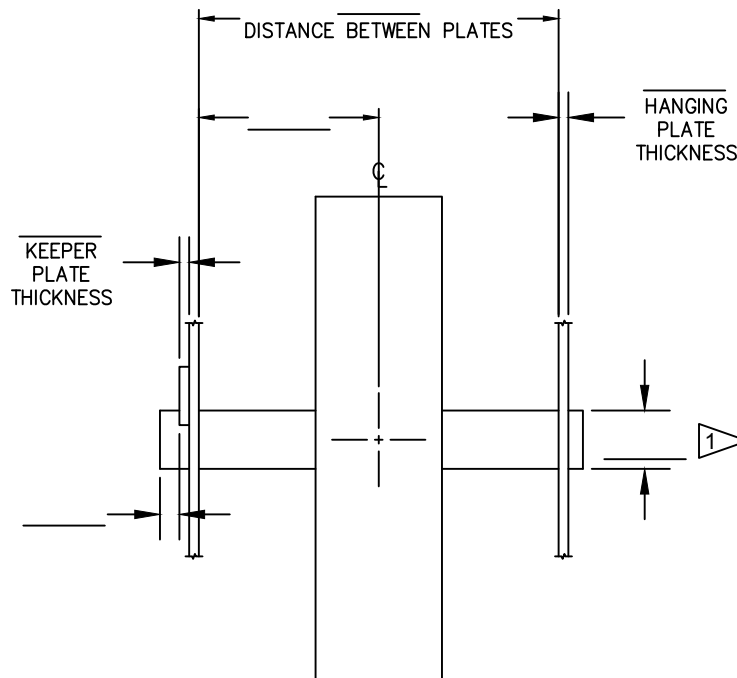
EMAIL: _____

FROM (H-W): _____

FAX NO: _____

DATE: _____

INFORMATION REQUIRED TO MANUFACTURE HANGING SHEAVES



PROVIDE OPEN DIMENSIONS ABOVE

1 HW TYPICAL SHAFT DIAMETER FOR HEAVY DUTY DEFLECTOR, CAR, CWT, AND OVERHEAD SHEAVES IS 3.438" - 3.440. IF YOU REQUIRE A SMALLER DIAMETER FOR YOUR EXISTING CONDITIONS, PROVIDE YOUR SHAFT DIAMETER IN NEAREST THOUSANDTHS.