

# GEARED OVERHEAD MACHINES

FILL IN ALL ITEMS ASSOCIATED WITH THE APPLICATION

ENGINEERING CONTACT: \_\_\_\_\_

JOB NAME: \_\_\_\_\_

COMPANY: \_\_\_\_\_

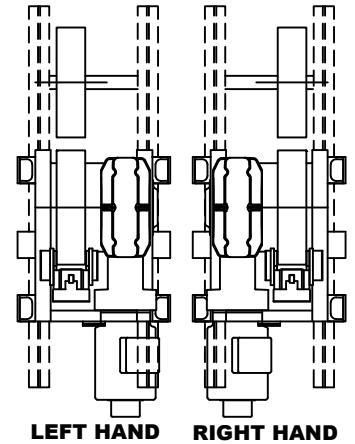
ELEV. #: \_\_\_\_\_ H-W #: \_\_\_\_\_

EMAIL: \_\_\_\_\_

DATE: \_\_\_\_\_

## GEARED MACHINES- OVERHEAD APPLICATION

- ☐ CAPACITY: \_\_\_\_\_
- ☐ CAR SPEED: \_\_\_\_\_
- ☐ EMPTY CAR WEIGHT: \_\_\_\_\_
- ☐ HAND OF MACHINE: ☐ LEFT ☐ RIGHT (SEE SKETCH "C")
- ☐ ROPING: ☐ 1:1 ☐ 2:1
- ☐ TRAVEL: \_\_\_\_\_
- ☐ BRAKE: ☐ DRUM ☐ DISC ☐ BY H-W
- ☐ HOIST ROPES: QUANTITY \_\_\_\_\_ SIZE \_\_\_\_\_
- ☐ PITCH OF HOIST ROPES (C.L. TO C.L. OF GROOVES ON FACE OF TRACTION SHEAVE): \_\_\_\_\_  
(H-W STANDARD PITCH IS: ROPE DIAMETER + 1/4")
- ☐ COMPENSATION WEIGHT (IF APPLICABLE) \_\_\_\_\_
- ☐ NEW CONTROLLER OR RETAIN EXISTING? ☐ NEW ☐ RETAINED. IF RETAINED, PROVIDE:
- ☐ EXISTING CONTROLLER MANUFACTURER: \_\_\_\_\_
- ☐ EXISTING MOTOR TYPE: ☐ A/C VVVF ☐ A/C SINGLE SPEED ☐ A/C 2-SPEED ☐ D/C
- ☐ EXISTING MOTOR HP: \_\_\_\_\_ ☐ EXISTING MOTOR RPM: \_\_\_\_\_
- ☐ IS H-W TO BUILD TO THESE EXISTING RATINGS? ☐ YES ☐ NO
- ☐ MOTOR POWER SUPPLY: \_\_\_\_\_ VOLTAGE
- ☐ FOR NEW MOTORS BY OTHERS (NOT H-W), PROVIDE CERTIFIED OUTLINE DIMENSION PRINTS OF MOTOR (INCLUDE FULL LOAD R.P.M.)
- ☐ FOR RETAINED MOTORS WITH NEW CONTROLLERS, FILL IN DIMENSIONS ON ENCLOSED BULLETIN #1109 AND:
- ☐ EXISTING MOTOR TYPE: ☐ A/C VVVF ☐ A/C SINGLE SPEED ☐ A/C 2-SPEED ☐ D/C
- ☐ EXISTING MOTOR HP: \_\_\_\_\_
- ☐ EXISTING MOTOR RPM: \_\_\_\_\_
- ☐ ASME A17 CODE COMPLIANCE TO WHICH YEAR REVISION: \_\_\_\_\_
- ☐ PRE 2013 CODE SEISMIC ZONE: ☐ 1 ☐ 2A ☐ 2B ☐ 3 ☐ 4
- ☐ DO YOU HAVE AN EXISTING DEFLECTOR SHEAVE: ☐ YES ☐ NO
- ☐ IF NOT, WHAT DIAMETER TRACTION SHEAVE IS REQUIRED: \_\_\_\_\_
- ☐ SELECT MOTOR LOCATION (SEE SKETCH "A") ☐ A ☐ B
- ☐ PROVIDE THE CAR TO CWT. ROPE DROP DISTANCE: \_\_\_\_\_  
(SEE SKETCH "A" - DIM. "AA")



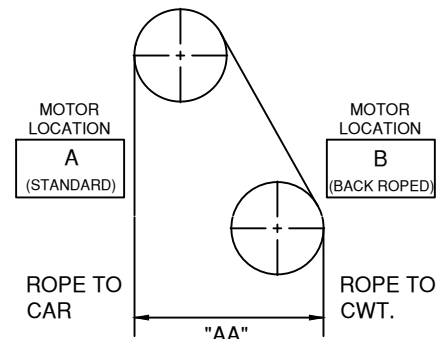
SKETCH "C"

## SHEAVES

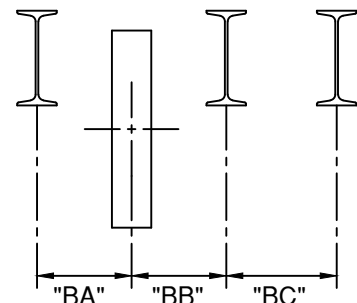
- ☐ HOIST ROPES: QUANTITY \_\_\_\_\_ SIZE \_\_\_\_\_
- ☐ PITCH OF HOIST ROPES: \_\_\_\_\_
- ☐ BEAM / CHANNEL SIZE: \_\_\_\_\_" HIGH x \_\_\_\_\_" WIDE
- ☐ BEAM SPACING (SEE SKETCH "B" - DIM. "BA", "BB" & "BC")
- ☐ IF DEFLECTOR MOUNTING IN MACHINE ROOM SEE ATTACHED SURVEY E-147-1
- ☐ IF A NEW DEFLECTOR IS REQUIRED, PROVIDE DIAMETER REQUIRED: \_\_\_\_\_

## MACHINE ISOLATION

- ☐ IS FLOOR SLAB EXISTING? ☐ YES ☐ NO
- ☐ FLOOR SLAB THICKNESS: \_\_\_\_\_
- ☐ ABOVE THE MACHINE BEAMS ☐ YES ☐ NO
- ☐ BEAM / CHANNEL SIZE: \_\_\_\_\_" HIGH x \_\_\_\_\_" WIDE
- ☐ BEAM SPACING (SEE SKETCH "B" - DIM. "BA", "BB" & "BC")



SKETCH "A"



SKETCH "B"

# GEARED MACHINE BLOCK-UP ASSEMBLY

FILL IN ALL ITEMS ASSOCIATED WITH THE APPLICATION

ENGINEERING CONTACT: \_\_\_\_\_

JOB NAME: \_\_\_\_\_

COMPANY: \_\_\_\_\_

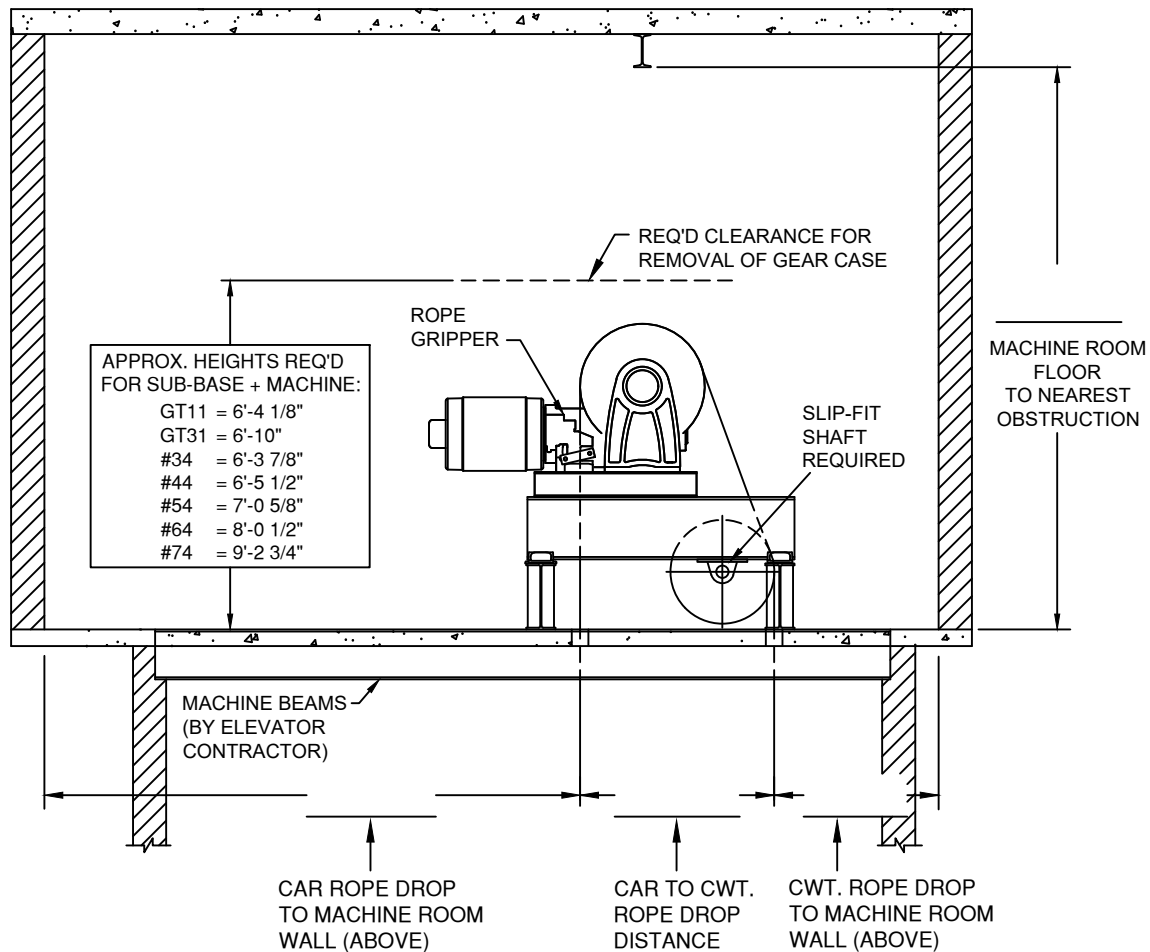
ELEV. #: \_\_\_\_\_ H-W #: \_\_\_\_\_

EMAIL: \_\_\_\_\_

DATE: \_\_\_\_\_

## INSTRUCTIONS:

1. FILL IN OPEN DIMENSIONS IN SKETCH 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 \_\_\_\_\_ HIGH x \_\_\_\_\_ WIDE



# EXISTING MOTOR INFORMATION

FILL OUT SURVEY FORM AS COMPLETE AS POSSIBLE.

ENGINEERING CONTACT: \_\_\_\_\_

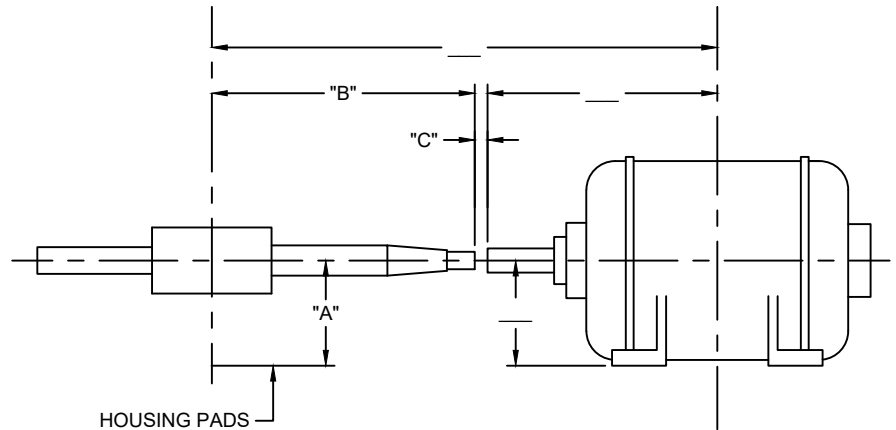
JOB NAME: \_\_\_\_\_

COMPANY: \_\_\_\_\_

ELEV. #: \_\_\_\_\_ H-W #: \_\_\_\_\_

EMAIL: \_\_\_\_\_

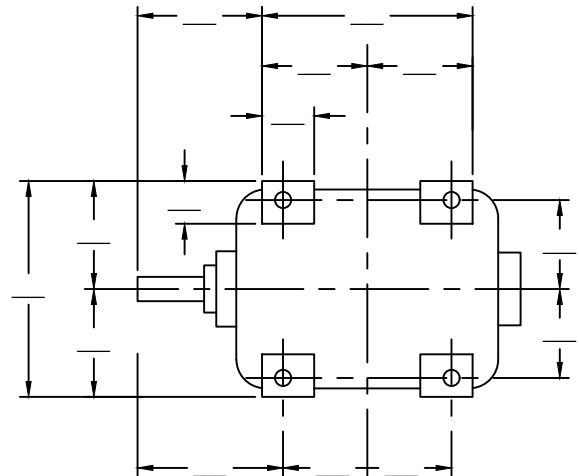
DATE: \_\_\_\_\_


☐ MACHINE NO.: \_\_\_\_\_

☐ MOTOR FRAME: \_\_\_\_\_

☐ MOTOR SHAFT DIAMETER: \_\_\_\_\_ (TO NEAREST THOUSANDTH)

☐ MOTOR SHAFT KEYWAY: \_\_\_\_\_

☐ MOTOR RPM: \_\_\_\_\_


MACHINE	"A"	"B"	"C"	B+C
34	7	$13 \frac{7}{16}$	$\frac{1}{4}$	$13 \frac{11}{16}$
43	$7 \frac{3}{4}$	$17 \frac{1}{8}$	$\frac{1}{4}$	$17 \frac{3}{8}$
44	$7 \frac{3}{4}$	$17 \frac{1}{8}$	$\frac{7}{16}$	$17 \frac{9}{16}$
53	$9 \frac{1}{2}$	$19 \frac{5}{16}$	$\frac{1}{4}$	$19 \frac{9}{16}$
54	$9 \frac{1}{2}$	$17 \frac{5}{8}$	$\frac{1}{8}$	$17 \frac{3}{4}$
63	$11 \frac{3}{8}$	$24 \frac{1}{8}$	$\frac{1}{4}$	$24 \frac{3}{8}$
64	$11 \frac{3}{8}$	$19 \frac{11}{16}$	$\frac{3}{16}$	$19 \frac{7}{8}$
74	13			$24 \frac{3}{4}$

## SMALL COMPONENTS

FILL IN ALL ITEMS ASSOCIATED WITH THE APPLICATION

ENGINEERING CONTACT: \_\_\_\_\_

JOB NAME: \_\_\_\_\_

COMPANY: \_\_\_\_\_

ELEV. #: \_\_\_\_\_ H-W #: \_\_\_\_\_

EMAIL: \_\_\_\_\_

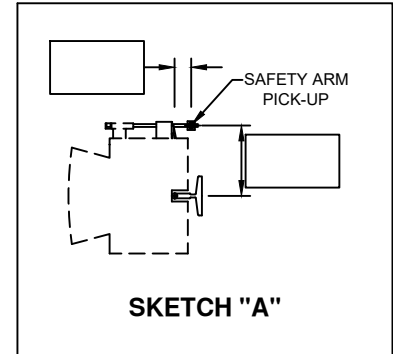
DATE: \_\_\_\_\_

### GENERAL INFORMATION

- ☐ EMPTY CAR WEIGHT: \_\_\_\_\_
- ☐ CAPACITY: \_\_\_\_\_
- ☐ CAR SPEED: \_\_\_\_\_
- ☐ RAIL SIZE (IN LBS.): \_\_\_\_\_
- ☐ NEMA: \_\_\_\_\_

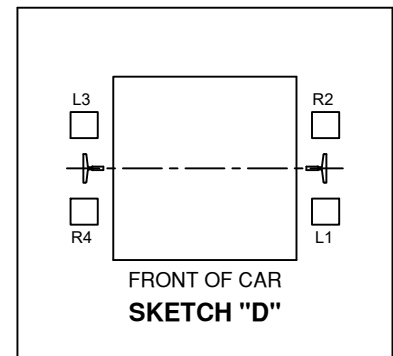
### SAFETIES

- ☐ TYPE: ☐ INSTANTANEOUS ☐ FGC
- ☐ COMPENSATION WEIGHT (IF APPLICABLE): \_\_\_\_\_
- ☐ DISTANCE BETWEEN GUIDES: (DBG) \_\_\_\_\_
- ☐ GOVERNOR LOCATION (SHOW ON SKETCH "D")
- ☐ STILE SIZE: \_\_\_\_\_
- ☐ UNDER BEAM HEIGHT: \_\_\_\_\_
- ☐ FILL OUT SHOE AND PLATES SECTION IF ADAPTOR PLATES ARE REQUIRED
- ☐ LOCATION OF SAFETY PICK-UP ARM. FILL OUT DIMENSIONS NOTED IN SKETCH "A"



### GOVERNORS

- ☐ MOUNTING LOCATION: ☐ STANDARD OVERHEAD MOUNTING ☐ PIT MOUNTED OPTION
- ☐ SHEAVE DIA (ROPE DIA): ☐ 12" (3/8") ☐ 16" (3/8") ☐ 16" (7/16") ☐ 16" (1/2")
- ☐ GOVERNOR PULL-THRU (IN LBS.): \_\_\_\_\_
- ☐ HAND OR LOCATION (SHOW ON SKETCH "D")
- ☐ LIVE SHAFT DIAMETER: ☐ N/A ☐ 12mm ☐ 0.25" ☐ 0.75" ☐ 1.00"
- ☐ ACCESSORIES: ☐ ENCLOSURE ☐ NEMA SWITCH: \_\_\_\_\_
- ☐ RESETTABLE (12" ONLY) ☐ MOUNTING PLATE

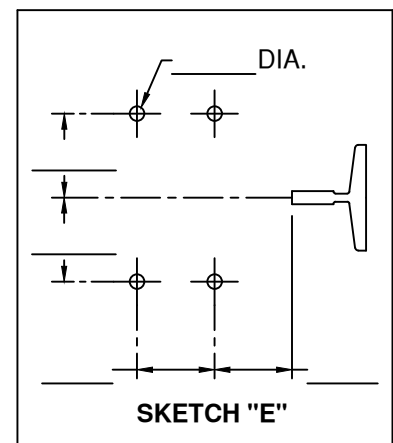


### TENSION WEIGHTS

- ☐ SHEAVE DIA (ROPE DIA): ☐ 12" (3/8") ☐ 16" (3/8") ☐ 16" (7/16") ☐ 16" (1/2")
- ☐ TENSION WEIGHT TYPE: ☐ FRAME ☐ SWING

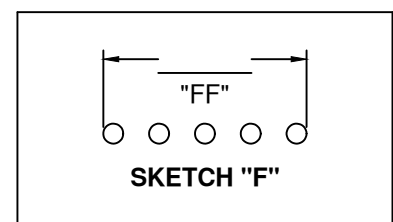
### SHOES AND PLATES

- ☐ SHOE TYPE: \_\_\_\_\_ MANUFACTURER: \_\_\_\_\_
- ☐ TEMPLATE (FILL IN ALL DIMENSIONS ON SKETCH "E")



### ROPE GRIPPERS

- ☐ COMPENSATION WEIGHT (IF APPLICABLE): \_\_\_\_\_
- ☐ ROPING: ☐ 1:1 ☐ 2:1
- ☐ HOIST ROPES: QUANTITY \_\_\_\_\_ SIZE \_\_\_\_\_
- ☐ OUT-TO-OUT OF HOIST ROPES (SEE SKETCH "F" - DIM. "FF"): \_\_\_\_\_
- ☐ LENGTH OF HYDRAULIC HOSE REQUIRED:
- ☐ STANDARD (27")
- ☐ 4'-0" ☐ 5'-0" ☐ 6'-0" ☐ 8'-0" ☐ CUSTOM (UP TO 30'-0"): \_\_\_\_\_



# BUFFERS & PIT CHANNELS

FILL IN ALL ITEMS ASSOCIATED WITH THE APPLICATION

ENGINEERING CONTACT: \_\_\_\_\_

JOB NAME: \_\_\_\_\_

COMPANY: \_\_\_\_\_

ELEV. #: \_\_\_\_\_ H-W #: \_\_\_\_\_

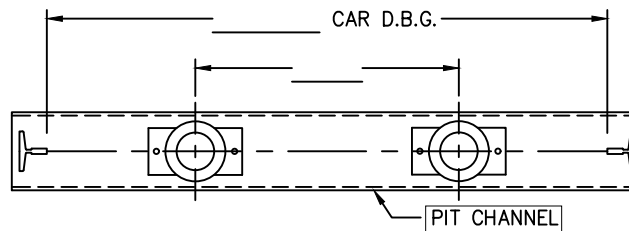
EMAIL: \_\_\_\_\_

DATE: \_\_\_\_\_

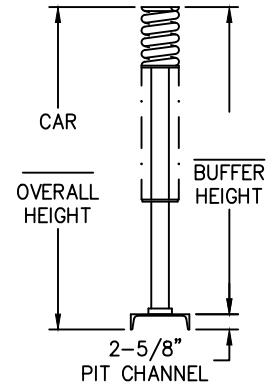
☐ GENERAL -

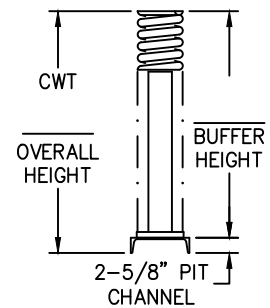
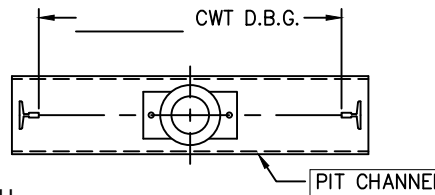
☐ SPEED: \_\_\_\_\_ ☐ CAPACITY: \_\_\_\_\_ ☐ SLIDING CLIP: ☐ SWITCH: ☐ YES ☐ NO

☐ CAR: PLEASE PROVIDE -

☐ D.B.G.: \_\_\_\_\_  
☐ RAIL SIZE: \_\_\_\_\_ (IN LBS.)  
☐ CAR WEIGHT: \_\_\_\_\_  
☐ BUFFER HEIGHT: \_\_\_\_\_  
☐ OVERALL HEIGHT: \_\_\_\_\_  
☐ DISTANCE BETWEEN BUFFERS: \_\_\_\_\_


## SPRING BUFFERS


☐ CWT: PLEASE PROVIDE -

☐ D.B.G.: \_\_\_\_\_  
☐ RAIL SIZE: \_\_\_\_\_ (IN LBS.)  
☐ CWT. WEIGHT: \_\_\_\_\_  
☐ BUFFER HEIGHT: \_\_\_\_\_  
☐ OVERALL HEIGHT: \_\_\_\_\_

☐ PIT CHANNELS REQUIRED? ☐ CAR ☐ CWT ☐ BOTH

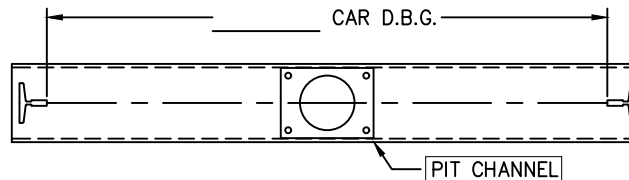
☐ HW PIT CHANNELS NORMALLY MOUNT UNDER THE THE GUIDE RAILS OR **THEY CAN BE CUT SHORT**. ADVISE WHICH OPTION -

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

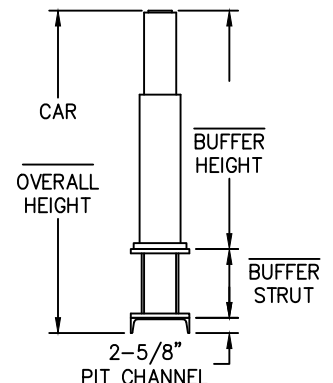
☐ GENERAL -

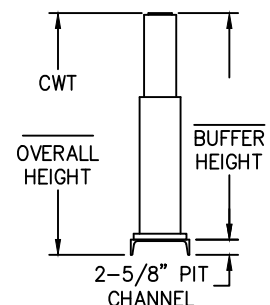
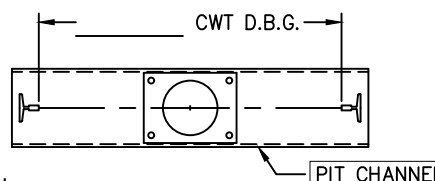
☐ SPEED: \_\_\_\_\_ ☐ CAPACITY: \_\_\_\_\_ ☐ SLIDING CLIP: ☐ SWITCH: ☐ YES ☐ NO

☐ CAR: PLEASE PROVIDE -

☐ D.B.G.: \_\_\_\_\_  
☐ RAIL SIZE: \_\_\_\_\_ (IN LBS.)  
☐ CAR WEIGHT: \_\_\_\_\_  
☐ BUFFER HEIGHT: \_\_\_\_\_  
☐ OVERALL HEIGHT: \_\_\_\_\_


## OIL BUFFERS


☐ CWT: PLEASE PROVIDE -

☐ D.B.G.: \_\_\_\_\_  
☐ RAIL SIZE: \_\_\_\_\_ (IN LBS.)  
☐ CWT. WEIGHT: \_\_\_\_\_  
☐ BUFFER HEIGHT: \_\_\_\_\_  
☐ OVERALL HEIGHT: \_\_\_\_\_

☐ PIT CHANNELS REQUIRED? ☐ CAR ☐ CWT ☐ BOTH

☐ 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

# SIDE-POST PLATFORMS

FILL IN ALL ITEMS ASSOCIATED WITH THE APPLICATION

ENGINEERING CONTACT: \_\_\_\_\_

JOB NAME: \_\_\_\_\_

COMPANY: \_\_\_\_\_

ELEV. #: \_\_\_\_\_ H-W #: \_\_\_\_\_

EMAIL: \_\_\_\_\_

DATE: \_\_\_\_\_

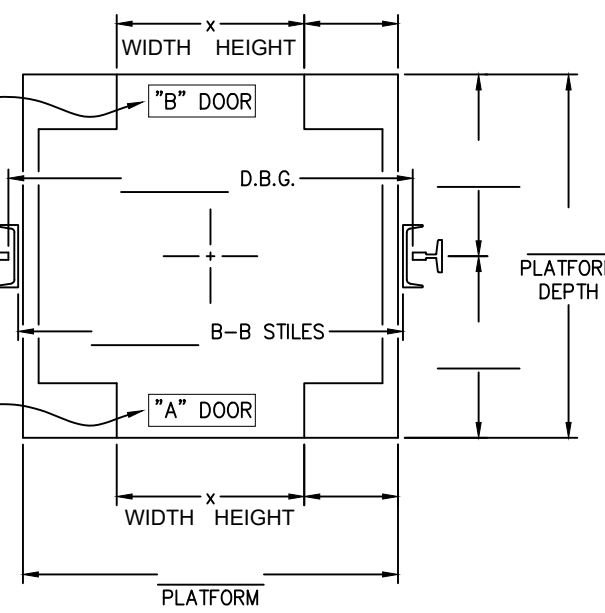
## PLATFORM

"B" DOOR SPEED ☐ SINGLE SPEED  
☐ 2 SPEED  
☐ 3 SPEED

"B" DOOR TYPE ☐ SIDE SLIDE  
☐ CENTER OPENING  
☐ FREIGHT GATE

"A" DOOR SPEED ☐ SINGLE SPEED  
☐ 2 SPEED  
☐ 3 SPEED

"A" DOOR TYPE ☐ SIDE SLIDE  
☐ CENTER OPENING  
☐ FREIGHT GATE



NOTE: IF PLATFORM IS NEEDING TO BE ISOLATED THEN B-B STILES AND PLATFORM WIDTH CANNOT BE THE SAME DIMENSIONS.

## REQUIRE INFORMATION MARKED BELOW:

- ☐ EXISTING TOTAL EMPTY CAR WEIGHT: \_\_\_\_\_
- ☐ NEW TOTAL CAB + DOOR 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: \_\_\_\_\_
- ☐ FLOORING THICKNESS NEEDED \_\_\_\_\_
- ☐ IF ALL STEEL PLATFORM IS REQUIRE PLEASE SELECT SUB-FLOOR QUANTITY AND TYPE:  
☐ 1 LAYER OF PLYWOOD ☐ 2 LAYERS OF PLYWOOD ☐ NONE  
☐ 3/4" STANDARD PLYWOOD ☐ 3/4" MARINE PLYWOOD ☐ 3/4" FIRE-RESISTANT PLYWOOD ☐ NONE
- ☐ IF ALL STEEL PLATFORM WITH NO SUB-FLOOR, CAR SILL DETAIL IS REQUIRED: \_\_\_\_\_
- ☐ LOCATION OF THE DOOR(S) BY FILLING IN THE DIMENSIONS ON ABOVE SKETCH.
- ☐ DOES THE PLATFORM NEED TO BE SPLIT DUE TO INSTALLATION RESTRICTION: ☐ YES ☐ NO

## EXISTING CORNERPOST PLATFORM

FILL IN ALL ITEMS ASSOCIATED WITH THE APPLICATION

ENGINEERING CONTACT: \_\_\_\_\_

JOB NAME: \_\_\_\_\_

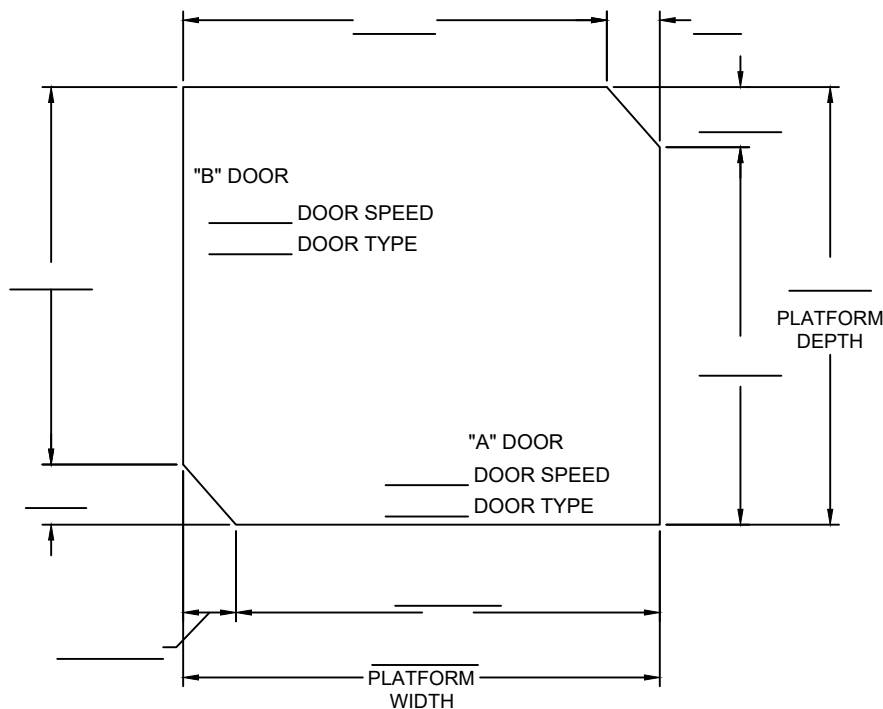
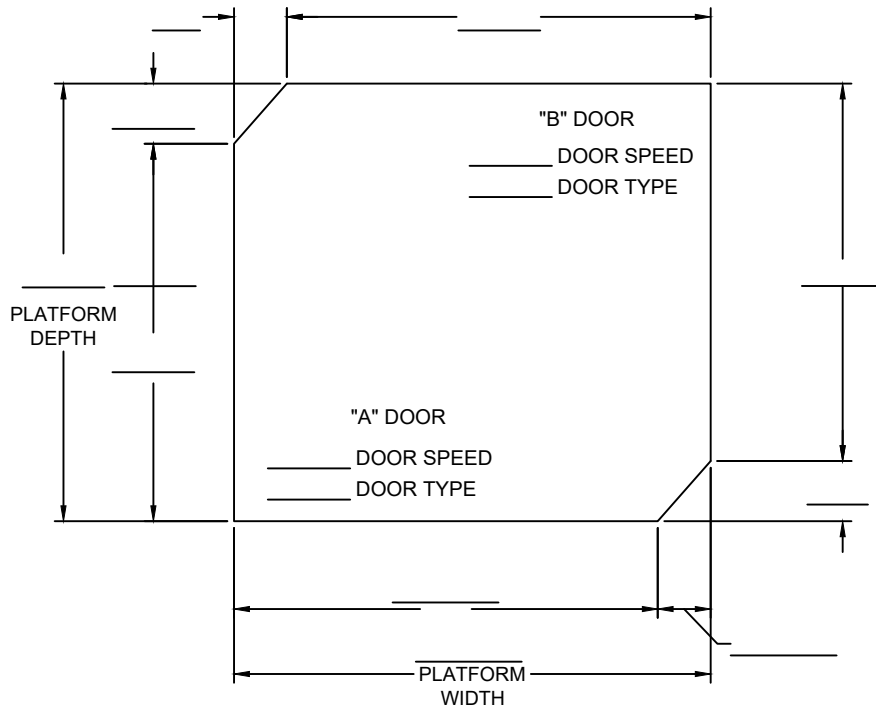
COMPANY: \_\_\_\_\_

ELEV. #: \_\_\_\_\_ H-W #: \_\_\_\_\_

EMAIL: \_\_\_\_\_

DATE: \_\_\_\_\_

NOTE: DOOR LOCATION  
TO BE INDICATED



# 1:1 ROPED CAR SLINGS

FILL IN ALL ITEMS ASSOCIATED WITH THE APPLICATION

ENGINEERING CONTACT: \_\_\_\_\_

JOB NAME: \_\_\_\_\_

COMPANY: \_\_\_\_\_

ELEV. #: \_\_\_\_\_ H-W #: \_\_\_\_\_

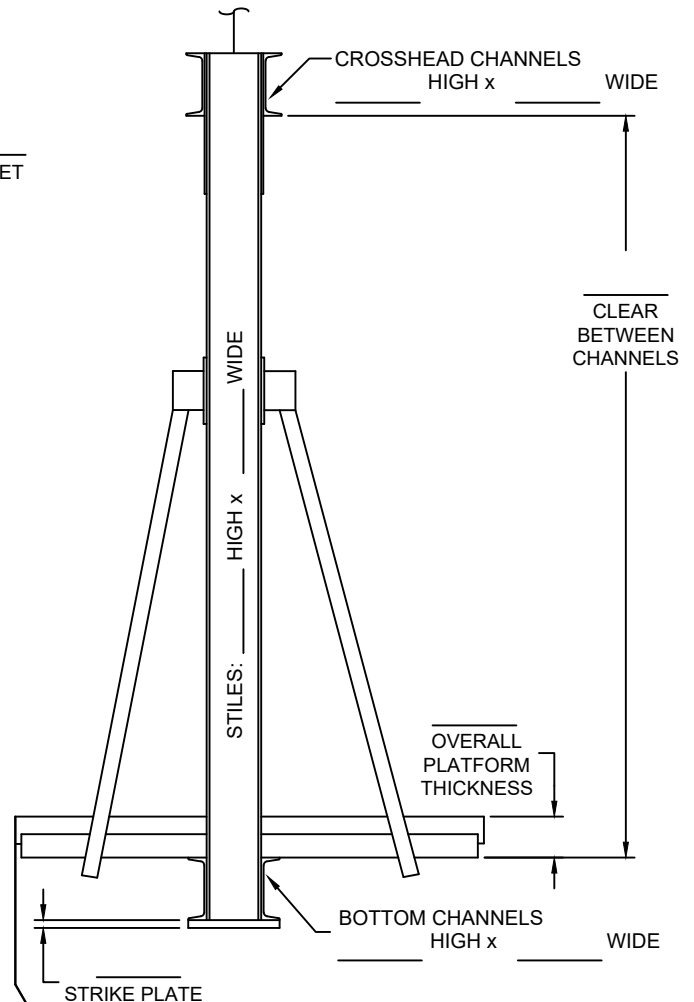
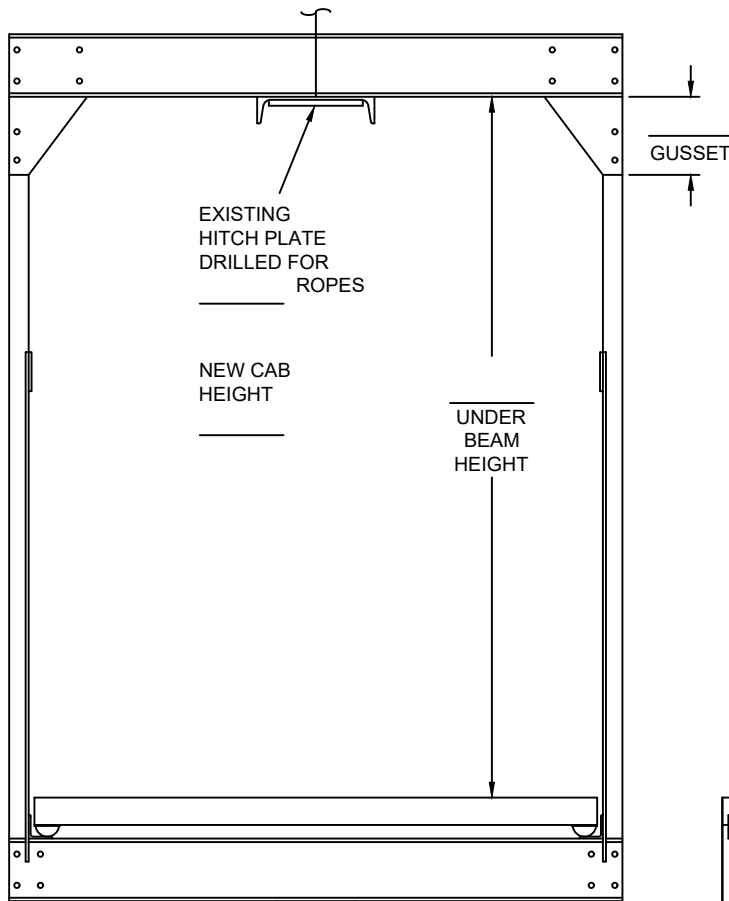
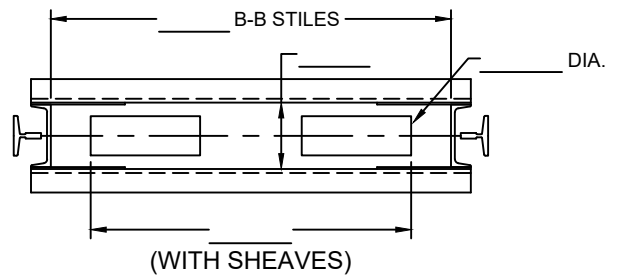
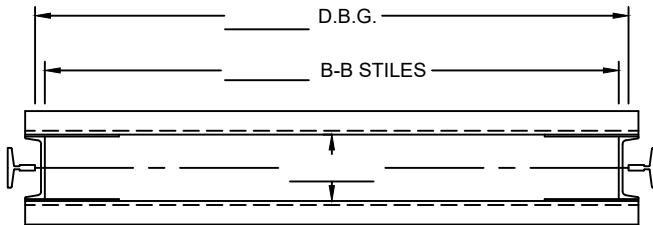
EMAIL: \_\_\_\_\_

DATE: \_\_\_\_\_

## WEIGHTS / DUTY

CAR SPEED: \_\_\_\_\_ CAPACITY RATING: \_\_\_\_\_ TOTAL EMPTY CAR WEIGHT: \_\_\_\_\_

LOAD CLASSIFICATION: ☐ PASSENGER -OR- CLASS: ☐ A ☐ B ☐ C1 ☐ C2 ☐ C3





## COUNTERWEIGHT FRAMES

FILL IN ALL ITEMS ASSOCIATED WITH THE APPLICATION

ENGINEERING CONTACT: \_\_\_\_\_

COMPANY: \_\_\_\_\_

EMAIL: \_\_\_\_\_

JOB NAME: \_\_\_\_\_

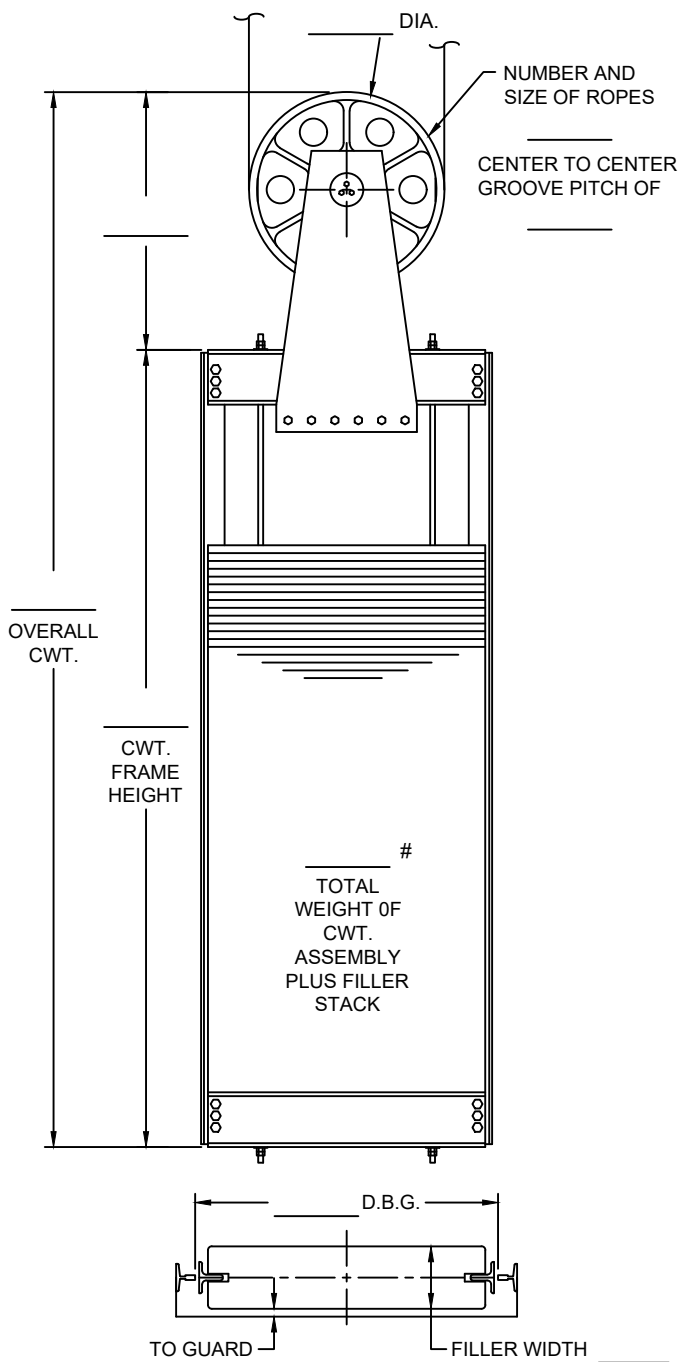
ELEV. #: \_\_\_\_\_ H-W #: \_\_\_\_\_

DATE: \_\_\_\_\_

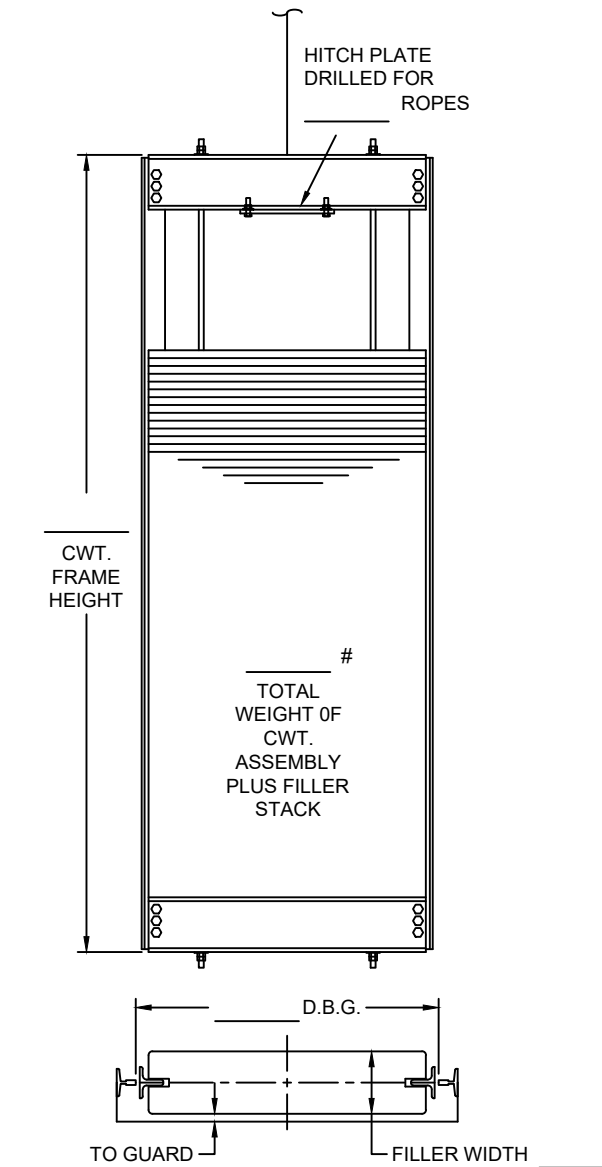
☐ CWT. RAIL SIZE (IN LBS) \_\_\_\_\_

☐ CWT. SHOE MANUFACTURER \_\_\_\_\_

### COUNTERWEIGHT WITH SHEAVE



### COUNTERWEIGHT WITHOUT SHEAVE



# REPLACEMENT SHEAVES

FILL IN ALL ITEMS ASSOCIATED WITH THE APPLICATION

ENGINEERING CONTACT: \_\_\_\_\_

JOB NAME: \_\_\_\_\_

COMPANY: \_\_\_\_\_

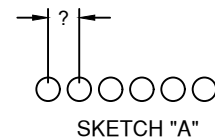
ELEV. #: \_\_\_\_\_ H-W #: \_\_\_\_\_

EMAIL: \_\_\_\_\_

DATE: \_\_\_\_\_

## GENERAL INFORMATION

- ☐ CAR SPEED: \_\_\_\_\_  
☐ CAPACITY: \_\_\_\_\_  
☐ EMPTY CAR WEIGHT: \_\_\_\_\_  
☐ HOIST ROPES: QUANTITY \_\_\_\_\_  
☐ HOIST ROPES: SIZE \_\_\_\_\_  
☐ ROPE PITCH (SEE SKETCH "A"): \_\_\_\_\_  
☐ MACHINE LOCATION: ☐ OVERHEAD ☐ BASEMENT  
☐ ROPING: ☐ 1:1 ☐ 2:1  
☐ SHEAVE LOCATION:

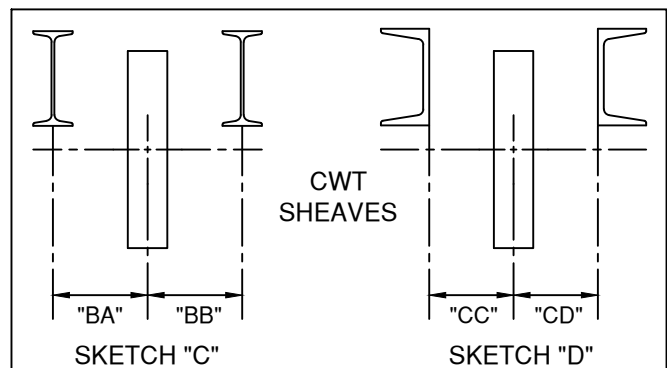
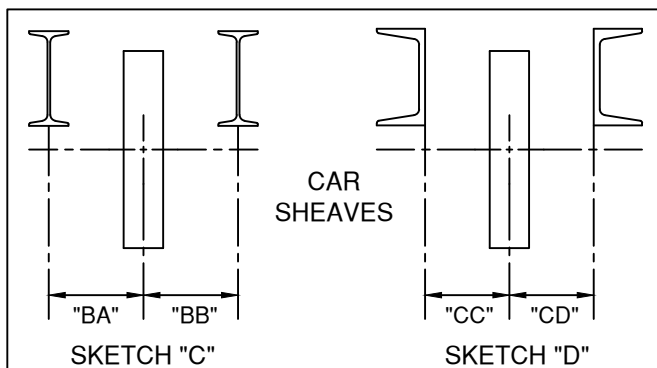


- ☐ OVERHEAD CAR
  - DIAMETER: \_\_\_\_\_ QUANTITY: \_\_\_\_\_
  - BEAM SIZE: \_\_\_\_\_" HIGH x \_\_\_\_\_" WIDE
  - BEAM SPACING "BA" \_\_\_\_\_ "BB" \_\_\_\_\_
  - CHANNEL SIZE: \_\_\_\_\_" HIGH x \_\_\_\_\_" WIDE
  - CHANNEL SPACING "CC" \_\_\_\_\_ "CD" \_\_\_\_\_

- ☐ OVERHEAD CWT
  - DIAMETER: \_\_\_\_\_ QUANTITY: \_\_\_\_\_
  - BEAM SIZE: \_\_\_\_\_" HIGH x \_\_\_\_\_" WIDE
  - BEAM SPACING "BA" \_\_\_\_\_ "BB" \_\_\_\_\_
  - CHANNEL SIZE: \_\_\_\_\_" HIGH x \_\_\_\_\_" WIDE
  - CHANNEL SPACING "CC" \_\_\_\_\_ "CD" \_\_\_\_\_

- ☐ ATTACHED TO CAR
  - DIAMETER: \_\_\_\_\_ QUANTITY: \_\_\_\_\_
  - BEAM SIZE: \_\_\_\_\_" HIGH x \_\_\_\_\_" WIDE
  - BEAM SPACING "BA" \_\_\_\_\_ "BB" \_\_\_\_\_
  - CHANNEL SIZE: \_\_\_\_\_" HIGH x \_\_\_\_\_" WIDE
  - CHANNEL SPACING "CC" \_\_\_\_\_ "CD" \_\_\_\_\_

- ☐ ATTACHED TO CWT
  - DIAMETER: \_\_\_\_\_ QUANTITY: \_\_\_\_\_
  - BEAM SIZE: \_\_\_\_\_" HIGH x \_\_\_\_\_" WIDE
  - BEAM SPACING "BA" \_\_\_\_\_ "BB" \_\_\_\_\_
  - CHANNEL SIZE: \_\_\_\_\_" HIGH x \_\_\_\_\_" WIDE
  - CHANNEL SPACING "CC" \_\_\_\_\_ "CD" \_\_\_\_\_



## HANGING SHEAVES

**FILL IN ALL ITEMS ASSOCIATED WITH THE APPLICATION**

ENGINEERING CONTACT: \_\_\_\_\_

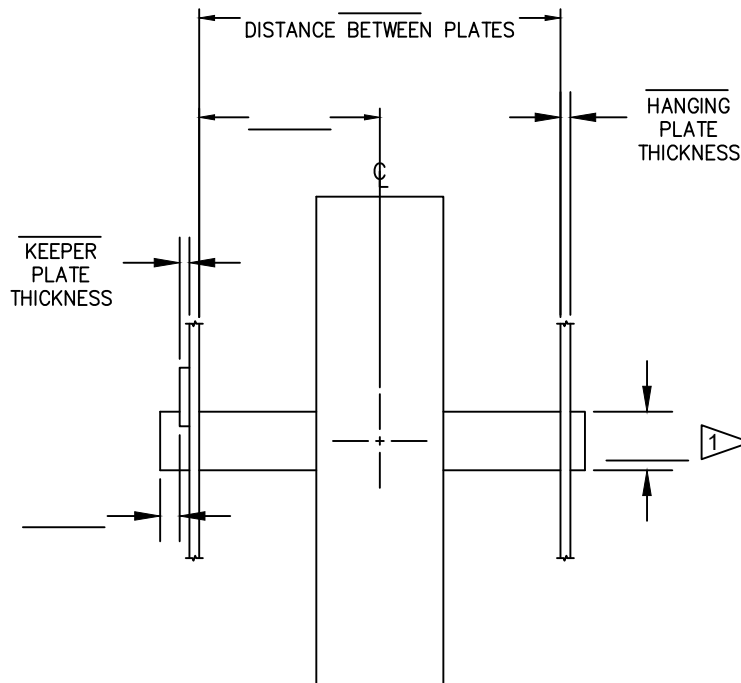
JOB NAME: \_\_\_\_\_

COMPANY: \_\_\_\_\_

ELEV. #: \_\_\_\_\_ H-W # : \_\_\_\_\_

EMAIL: \_\_\_\_\_

DATE: \_\_\_\_\_



### 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.