



PLAN CHECK WORKSHEET FOR HYDRO-ELECTRIC CABLED ELEVATORS

JOB ADDRESS:	ELEVATOR No:
PCIS #: _____ - _____ - _____	
CONTRACTOR:	Licence # C11
BTRC #:	State Certification #
Signature:	Date:

The following information are necessary to check electric elevator plans. The information shall be shown on these worksheets and on the blue prints.

INFORMATION		EXAMPLE	ACTUAL VALUE
GENERAL			
C1	Passenger or freight class of loading	Passenger	
C2	Rated speed	100 fpm	
C3	Travel	10 ft.	
C4	Is this a medical emergency elevator?	Yes	
C5	If no, is there a medical emergency elevator in this building?		
C6	Height of building ¹	20 ft.	
C7	Location of installation in relation to the plans and elevation of the building	See drawings	
HOISTWAY ENCLOSURE			
C8	Number of elevators in the building	2	
C9	Number of cars in the hoistway	1	
PITS			
C10	Bottom runby	6 in.	
C11	Guards between adjacent pits	Only one pit	

¹ For high-rise buildings submit calculations to verify that the anchorage of drive and suspension system conforms to Section 91.403.10; 91.1626; and 91.1632.2 of the Los Angeles Building Code. ASME A17.1 Rules 2401.1; 2401.3; and 2401.4

C12	Horizontal refuge area	24"X47"
C13	Height of refuge area	24 in.
C14	Means to prevent the accumulation of water (Show detail)	N/A
CAR CLEARANCES		
C15	Bottom	28 in.
C16	Top	53 in.
C17	Top runby	3 in.
REFUGE SPACE ON TOP OF CAR ENCLOSURE		
C18	Width	24 in.
C19	Depth	33 in.
C20	Height	43 in.
MACHINE ROOM		
C21	Height	7 ft
C22	Disconnect switch in sight of motor	See layout
C23	Work space for disconnect and controller	48 inches
C24	Hydro machinery work space	See layout
C25	Manually operated shut off valve between hydraulic machine and hydraulic jack	See layout
CAR		
C26	Lining material	Cab 5-LA
C27	Wall material	Cab 5-LA
C28	Ceiling diffuser material	Cab 5-LA
C29	Width, inside	80 in.
C30	Depth, inside	51 in.
C31	Weight, (car and accessories not including plunger)	2,700 lb
C32	Capacity (rated load)	2,500 lb
C33	Width of door	42 in.
C34	Single door, center opening doors, or multi-speed doors	Single door
C35	Hoistway door weight	150 lb
C36	Car door weight	180 lb

C37	Door travel time	3.4 seconds
STILES		
C38	Steel	C5X6.7
C39	Free length of styles (distance between cross head and plank)	7 ft
C40	Vertical center distance between upper and lower guide shoes (or rollers)	8 ft
PLANK		
C41	Steel	C5 X 8.2
CROSSHEAD		
C42	Steel	C5 X 6.7
C43	Distance equipment projects above top of crosshead	18 inches
CAR BUFFERS		
C44	Type (oil or spring)	Spring
C45	Make	ABC
C46	Model	H102
C47	State approval	12345
C48	Capacity	7,000 lb
C49	Stroke	3 in.
C50	No. of buffers (Show on layout)	2
GUIDE RAILS		
C51	Rail size	15 lb.
C52	Fishplate thickness (if other than a plate, provide detail and moment of inertia calculations. A piece of rail of the same weight as the main rail is acceptable)	2¼ inches
RAIL BRACKETS		
C53	Maximum vertical distance between rail brackets	144 in.
C54	Design details	See drawing RB 26
PUMP AND TANK		
C55	Weight	2,000 #
C56	Location (distance between closer floor bolts)	34 in.

C57	Height to center of gravity	58 in.
C58	Type and number of floor bolts	"Red Head" Self-drill, 4
C59	Floor bolt, size and minimum embedment	½ in. X 6 in. 5 in. embedment
PRESSURE		
C60	Maximum working pressure	450 psi
C61	Relief vale set pressure	675 psi
PLUNGER		
C62	Number of hydraulic jacks	1
C63	Inside diameter	3.813
C64	Outside diameter	4 ⅝ in.
C65	Free length	14 ft. 6 in.
C66	Wall thickness	0.281 in.
C67	Head thickness	0.750 in.
C68	Shape of head	Flat
C69	Inside diameter of skirt or radius of curvature of head (drawing required)	Head is not dished
C70	Material	Carbon Steel AISE 1026 cold drawn
C71	Yield point (based on 2% proof yield stress point)	60,000 psi
C72	Percent Elongation	15%
CYLINDER		
C73	Is the cylinder installed below ground?	Yes
C74	If yes, what type of protection from corrosion is provided?	Protective plastic Casing
C75	Inside diameter	6.065 in.
C76	Outside diameter	6.625 in.
C77	Wall thickness	0.280 in.
C78	Head thickness	0.750 in.
C79	Shape of head	Flat
C80	Inside diameter of skirt or radius of curvature of head (drawing required)	Head is not dished
C81	Safety bulkhead (detail required)	See drawing SP2

C82	Material	Carbon Steel AISE 1026 cold drawn
C83	Yield point (based on 2% proof yield point)	60,000 psi
C84	Percent elongation	15%
PIPING		
C85	Nominal size	2 in.
C86	Schedule or type	Schedule 40
C87	Material	Galvanized iron
C88	Inside diameter ²	2.067
C89	Outside diameter ²	2.375 in.
C90	Wall thickness ²	0.154
C91	Yield stress ²	35,000 psi
C92	Percent elongation ²	15%
CAR ROPES		
C93	Number of ropes	4
C94	Roping ratio	1:1
C95	Type and size of ropes	8X19 ⁵ / ₈ " dia.
C96	Rated braking strength of one rope	24,800 lbs
C97	Weight of ropes	125 lbs
C98	Weight of traveling cable	30 lbs
CAR SAFETIES		
C99	No. and type	(1) flexible guide
C100	Manufacturer	ABC
C101	Model	FG4LA
C102	State approval No.	1234
C103	Duplex	one
COUNTERWEIGHT		
C104	Weight (Including frame)	2,800 lbs
COUNTERWEIGHT BUFFERS		
C105	Type (Oil or Spring)	Oil
C106	Make	ABC

²If other than standard ASA B36.10 and ANSI B16.25 steel pipes or ASTM B88 copper tubes

C107	Model	1525LA
C108	State approval	1234
C109	Capacity	7000 lbs
C110	Stroke	3 inches
C111	No. of buffers (Show on layout)	1
COUNTER WEIGHT GUIDE RAILS		
C112	Counter weight rail size	11lb/ft
COUNTERWEIGHT RAIL BRACKETS		
C113	Vertical distance between rail brackets	10 ft
C114	Design detail	See attached detail
COUNTERWEIGHT TIE BRACKETS		
C115	Location of tie brackets	no intermediate tie bracket
C116	Design detail (show on layout)	N/A
C117	Distance between upper and lower counterweight position restrains	5 feet
COUNTERWEIGHT CLEARANCES		
C118	Is the counterweight enclosed by double U-brackets?	no
C119	Are single U-brackets provided and located within the space between the car and its counterweight?	no
C120	Clearance between the car and the counterweight assembly.	2 inches
C121	Clearance between the counterweight assembly and the hoistway enclosure or separator beams.	2 inches
C122	Counterweight runby	6 inches
COUNTERWEIGHT SAFETIES		
C123	Is there usable space below the hoistway?	yes
C124	No. and type	(1) flexible guide
C125	Manufacturer	ABC
C126	Model	CWS4LA
C127	State approval No.	1234

COUNTERWEIGHT ROPES			
C128	Number of ropes	4	
C129	Roping ratio	1:1	
C130	Size and type of Ropes	8X19 ⁵ / ₈ " dia.	
C131	Rated braking strength of one rope	24,800 lbs	
C132	Weight of ropes	125 lbs	