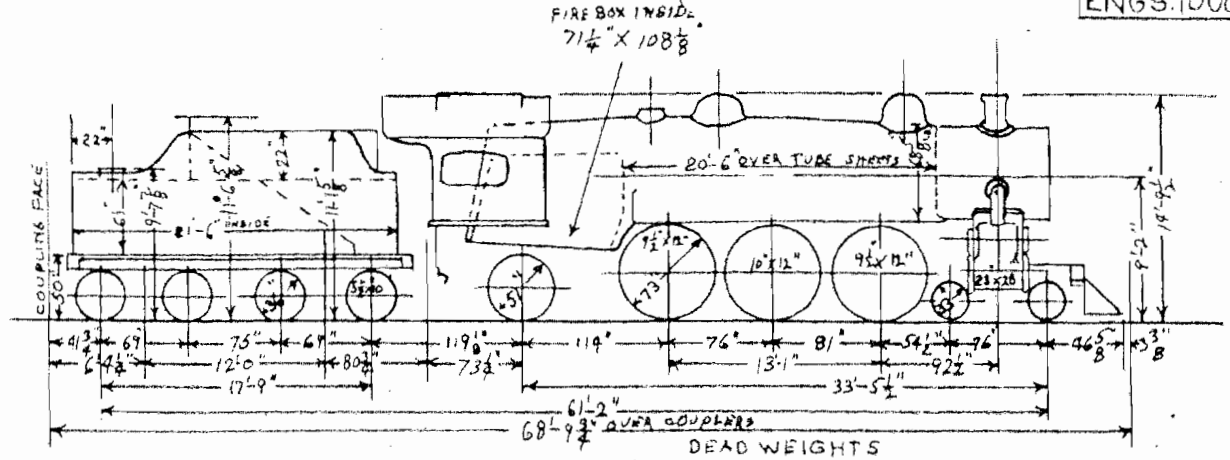
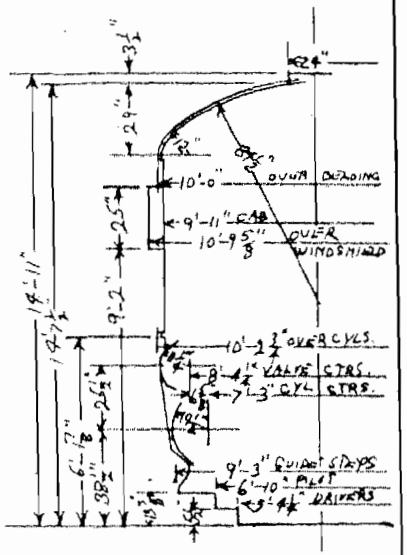
N.H.R.R. B 627

ENGS. 1000-1031 | CLASS I-1





ALL WEIGHTS FOR ENGINE AND TENDER IN WORKING ORDER

B28

1/9/62

ITEM	BOILER	HEATING SURFACE	LENGTH OVER TUBE SHEETS	DIA.	GAUGE OR THICK
1	BOILER TUBES - 174 - SPACING - 3"	2091	20'-6"	2"	# 12 MIN
2	BOILER FLUES - 28 - SPACING - 3½"	823	20'-6"	5½"	# 10 MIN.
3	TOTAL TUBES + FLUES	2914	—	—	—
4	FIRE BOX PROPER	190	—	—	—
5	COMBUSTION CHAMBER	—	—	—	—
6	ARCH TUBES - 4	29	9'-6"	3"	#8 MIN.
7	TOTAL FIRE BOX	219	—	—	—
8	TOTAL EVAPORATING HEATING SURFACE	3133	—	—	—
9	TOTAL SUPERHEATING HEATING SURFACE	670	—	—	—
10	TUBE SHEETS - FT. ⅜ BK ½"				
11	GRATE AREA				535.50 FT.
12	WEIGHT WATER 25" GAUGES				
13					
14					
15					

DESIGN DATA	
CALCULATED EVAPORATION LBS./HR.	
TUBES @ 8.69 LBS.	18170 LBS.
FLUES @ 9.86 LBS	8115 LBS.
FIRE BOX @ 55 LBS.	10450 LBS
COMBUSTION CHAMBER	—
ARCH TUBES @ 8.5 LBS	1593 LBS.
TOTAL EVAPORATION	98330 LBS.
ST. CONSUMPTION (1402 x 20.8)	39600 LBS
BOILER FACTOR	96.18%
FIRE BOX H.S. TO GRATE AREA	4.08
TOTAL EVAP. H.S. TO FIRE BOX H.S.	14.3
TOTAL EVAP. H.S. TO SUPHTG. H.S.	4.68
~~ARCH TUB SPACING~~ ~~GAS AREA THRU TUBES AND FLUES~~	92%
FRAME OTRS. 43" FRAME WIDTH 4½"	

GENERAL DATA	
BOILER PRESSURE	200 LBS
TRACTIVE EFFORT	34490 LBS
FACTOR OF ADHESION	4.14
MAX. CURVATURE	16°
ENGINE TRUCK SWING	3¼"
TRAILING TRUCK SWING	4¼"
COAL CAPACITY	14 TONS
WATER CAPACITY	6000 GALS.
VALVE GEAR	WALSCHAERT
STOKER	—
FEED WATER HEATER	—
THROTTLE-CHAMBER'S DOME TYPE IN STEAM	
MAX. CUT OFF	85%