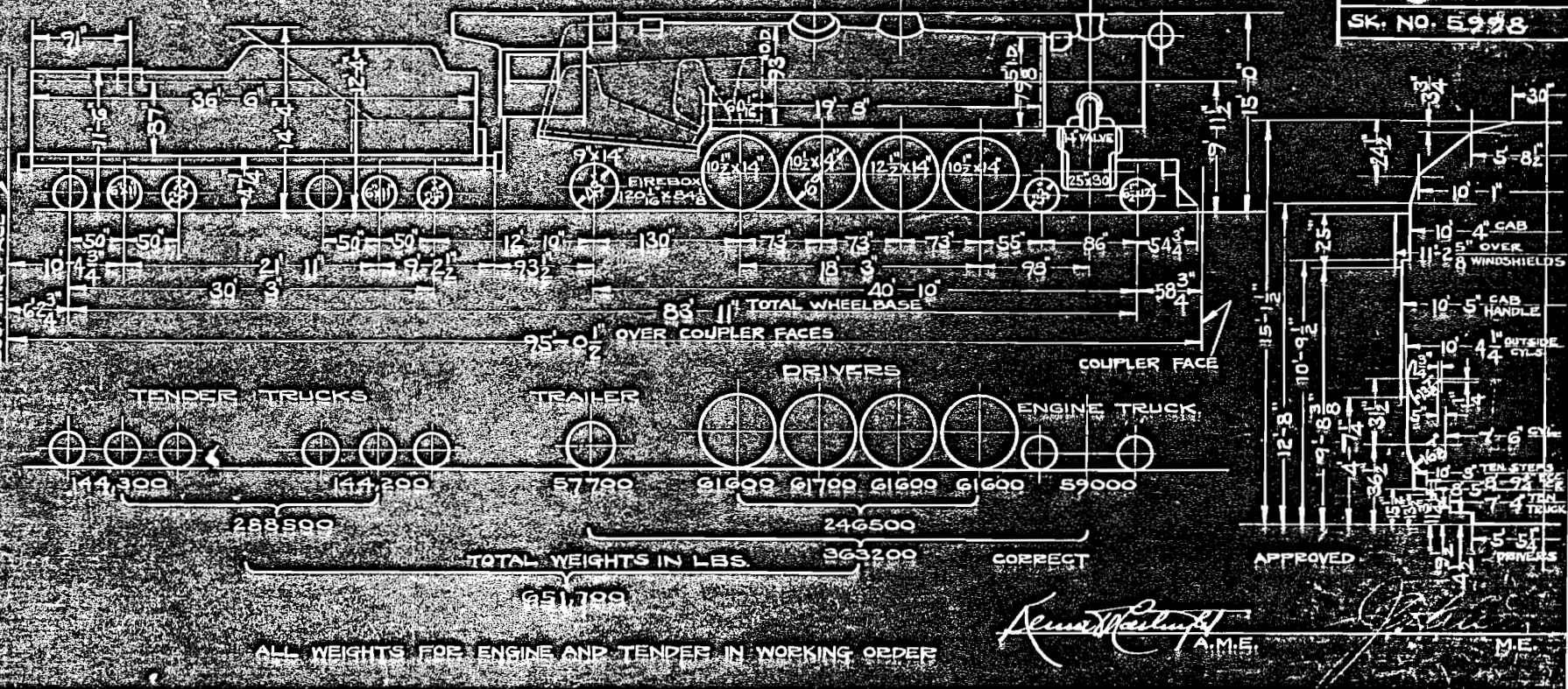


MAR. 27-19

COUPLING FACE

MECH. ENGRS. OFFICE



ALL WEIGHTS FOR ENGINE AND TENDER IN WORKING ORDER

James H. Hartung M.E. APPROVED

ITEM	BOILER	HEATING SURFACE	LENGTH	DIA	GAUGE OR THICK.	DESIGN DATA	GENERAL DATA
1	BOILER TUBES 27" SPACING 1/16"	484	12'-8"	3 1/2"	11 MIN.	CALCULATED EVAPORATION LBS./HR. 4500 LBS.	BOILER PRESSURE 265 LBS.
2	BOILER FLUES 17 1/2" SPACING 1/16"	3084	19'-8"	3 1/2"	11 MIN.	TUBES @ 9.3 LBS. 28680 LBS.	TRACTIVE EFFORT 61200 LBS.
3	TOTAL TUBES & FLUES	3568				FLUES @ 9.3 LBS. 12375 LBS.	FACTOR OF ADHESION 4.03
4	FIREBOX PROPER	225				FIREBOX @ 55 LBS. 5555 LBS.	MAX. CURVATURE 19'
5	COMBUSTION CHAMBER	101				COMB. CHAMBER @ 55 LBS. 5225 LBS.	ENG. TRUCK SWING 4 1/2'
6	SYPHONS 2" FIREBOX; 1 COMB. CHAMBER	95				3" SYPHONS @ 55 LBS. 5635 LBS.	TRAILING TRUCK SWING 6 1/2'
7	TOTAL FIREBOX	421				TOTAL EVAPORATION 56335 LBS.	COAL CAPACITY 18 TONS.
8	TOTAL EVAPORATING HEATING SURFACE	3989				STEAM CONSUMPTION (2980x 20.8) 61980 LBS.	WATER CAPACITY 16000 GALS.
9	TOTAL SUPERHEATING HEATING SURFACE	1815				BOILER FACTOR 90.9 %	SUPERHEATED THROTTLE AMERICAN
10	TUBE SHEETS FRONT 3/8" BACK 3/8"					FIREBOX HEATING SURFACE TO GRATE AREA 6.0	VALVE GEAR BAKER
11	GRATE AREA					TOTAL EVAPORATING H.S. TO FIREBOX H.S. 248	MAX. CUTOFF 82.9 %
12	WEIGHT OF WATER AT 2" GAUGES					TOTAL EVAPORATING H.S. TO SUPPLY H.S. 220	STOKER HT-2
13						GRATE AREA THROUGH TUBES & FLUES 105 %	HEATER ELESOP
14	DR. TRUCK IN					FRAME CENTERS 41" FRAME WIDTH 6"	