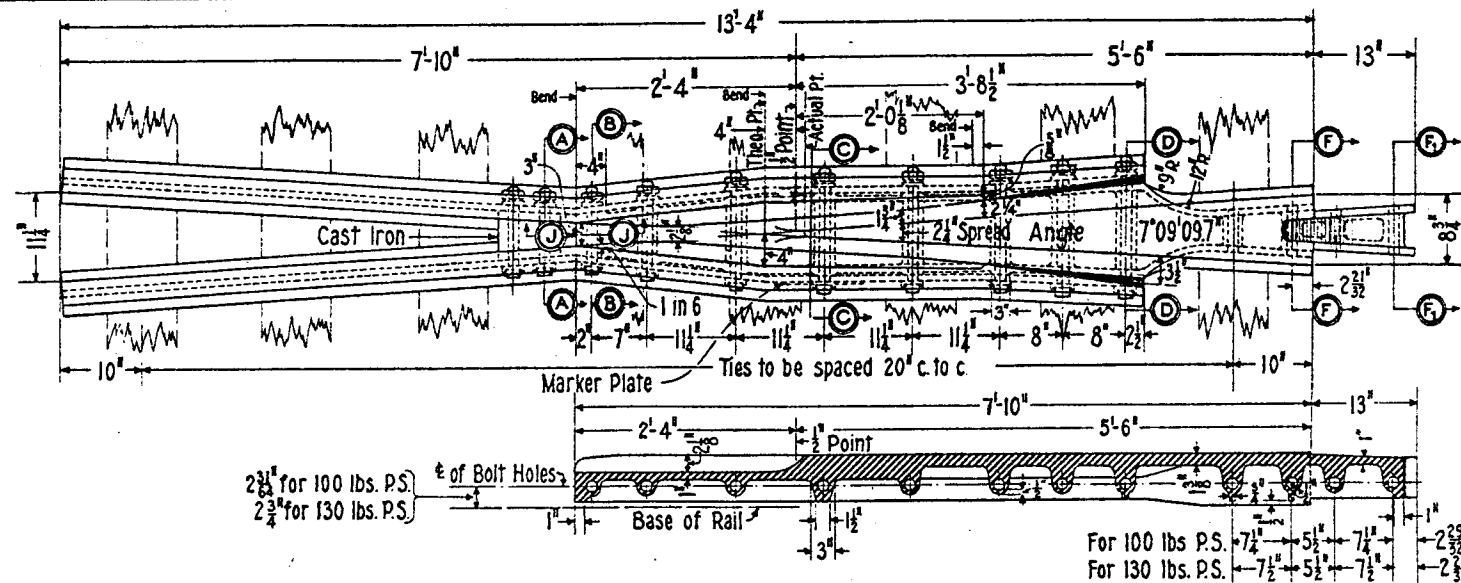


Short dia., for 1 1/8" bolt 1 1/2"
Short dia., for 1 3/8" bolt 2 1/8"



2 3/4" for 100 lbs. P.S.
2 3/4" for 130 lbs. P.S.

For 100 lbs P.S. 7 1/4" 5 1/2" 7 1/4" 1 23/32"
For 130 lbs P.S. 7 1/2" 5 1/2" 7 1/2" 2 3/8"

NOTE:-

Requisition must specify frog number and type of rail desired.

Hard center frogs shall be either Manard, Manganese or other approved alloy steel.

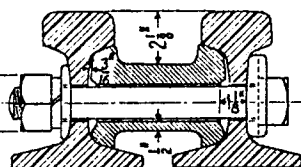
All rails must conform to Pennsylvania System Specifications for Open Hearth Steel Rails.

All bolts must conform to Pennsylvania System Specifications for Quenched Carbon and Alloy Steel Track Bolts.

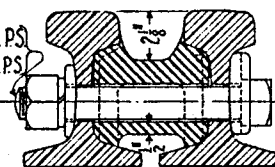
All through bolts shall have square heads, and shall be fitted with head locks, nut locks and bevel washers where necessary to afford square bearing. Suitable washers in any case shall be placed under nuts to bring same out from under head of rail, so that they may be tightened with standard wrench.

A Malleable Iron Marker Plate, indicating in raised or deeply cut characters, not less than one half inch high, the name of the manufacturer, the month and year shipped, the number of frog and the weight and section of rail, must be securely fastened to each frog in position as indicated on plan.

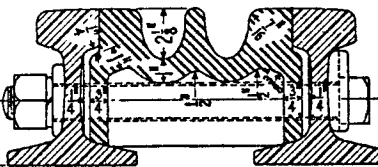
The necessary bolts for use at joints at heel of frogs must be furnished by manufacturer.



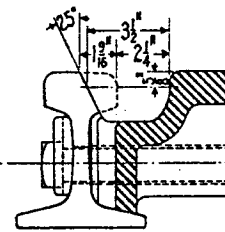
SECTION A-A



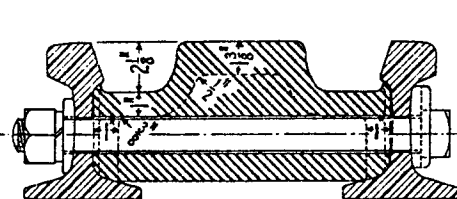
SECTION B-B



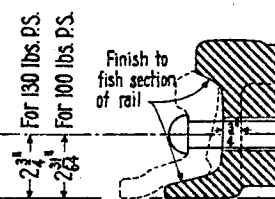
SECTION C-C



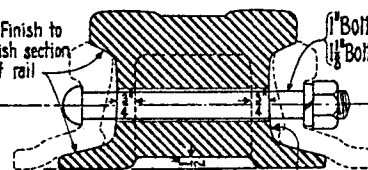
PLANING AT END OF WING RAIL



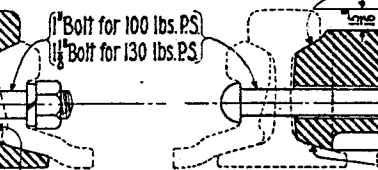
SECTION D-D



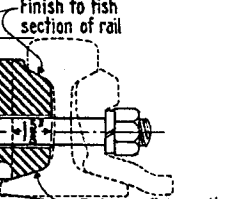
SECTION E-E



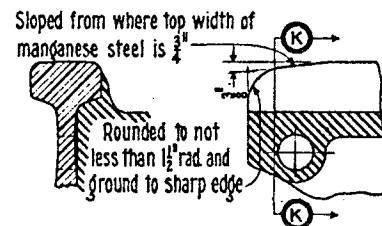
SECTION F-F



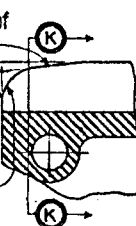
SECTION G-G



SECTION H-H

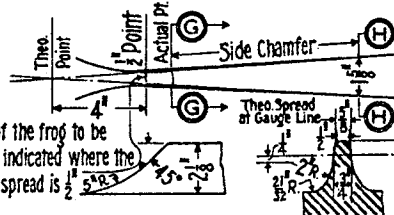


SECTION K-K

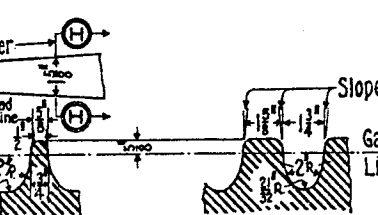


SECTION J-J

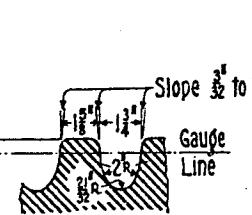
The working point of the frog to be marked on casting as indicated where the theoretical gauge line spread is 1 1/2"



ELEVATION



SECTION G-G



SECTION H-H

DETAIL OF POINT AND FLANGWAY

PENNSYLVANIA SYSTEM

STANDARD

NO. 8 HARD CENTER FROG

OFFICE OF CHIEF ENGINEER, PHILA. PA. DECEMBER, 1920.

Correct
Chief Engineer

Approved
Chief Engineer

74100-A