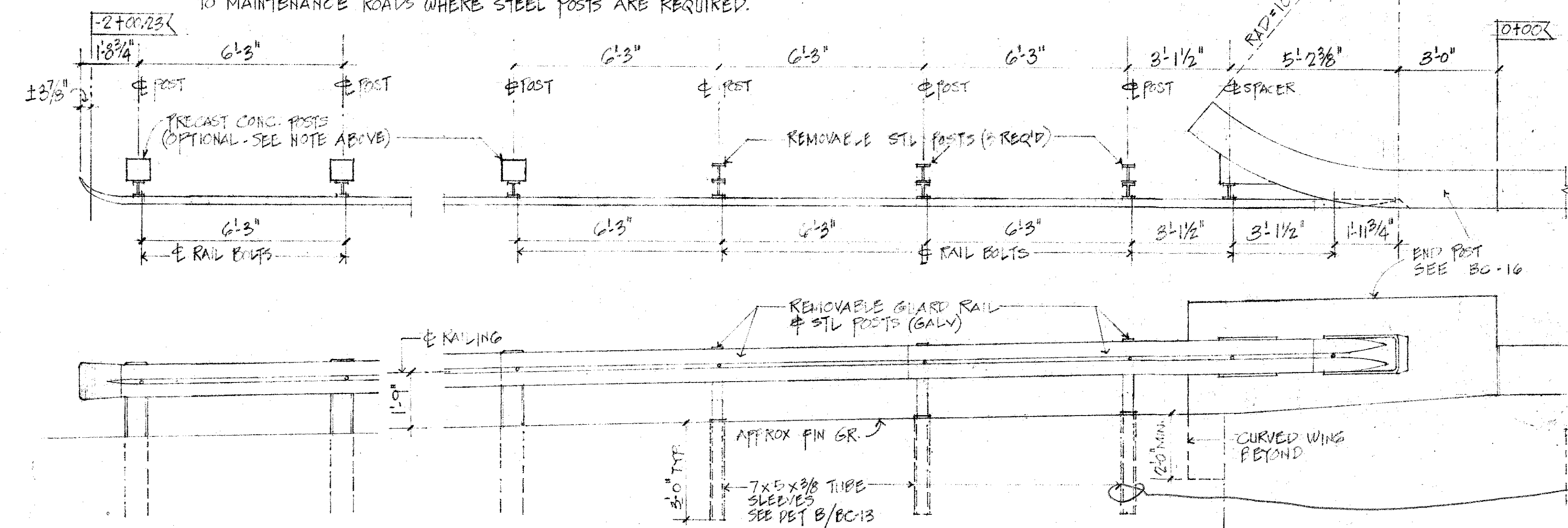
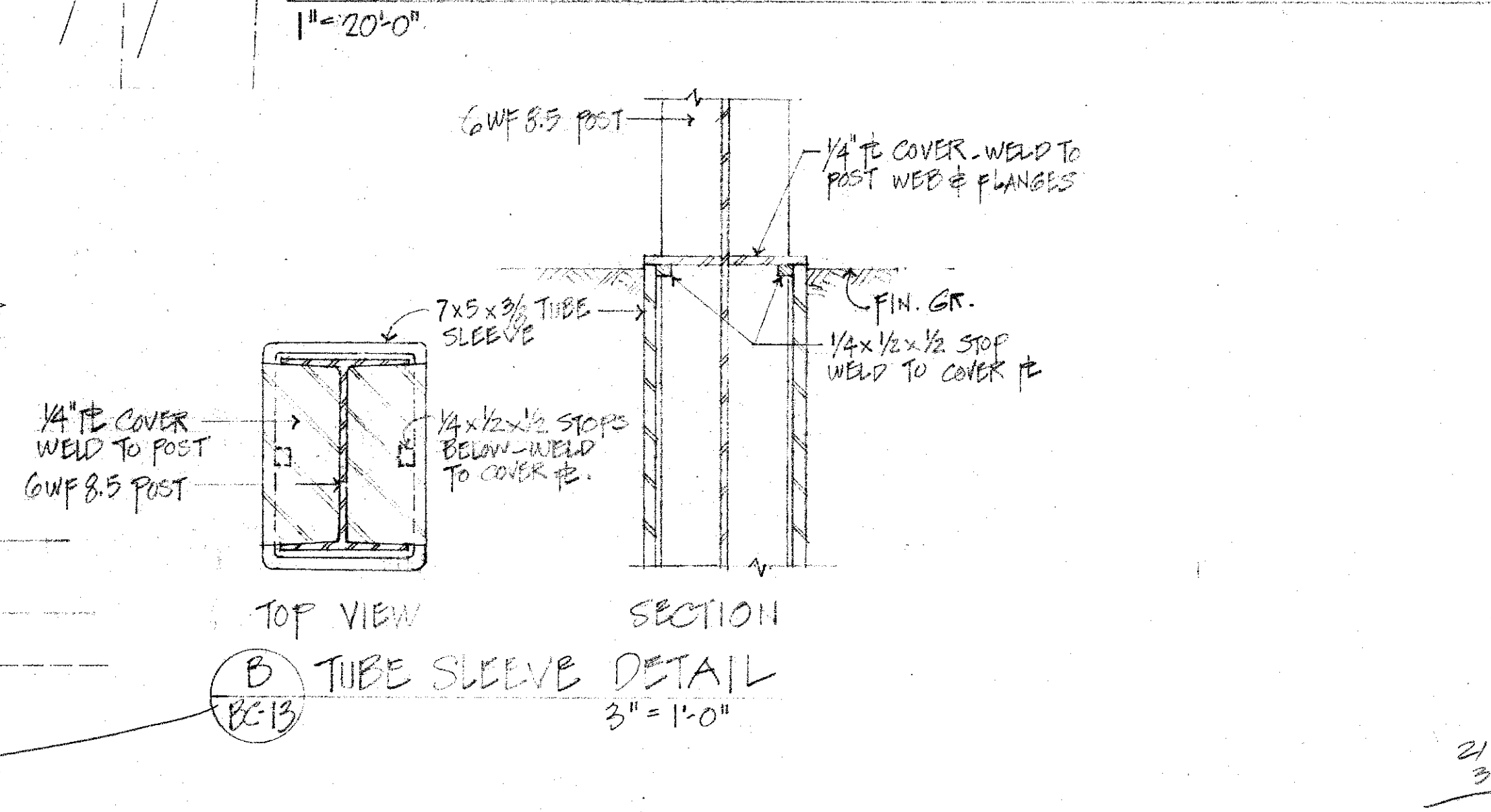


GUARD RAIL LAYOUT @ KAHUKU ABUTMENT

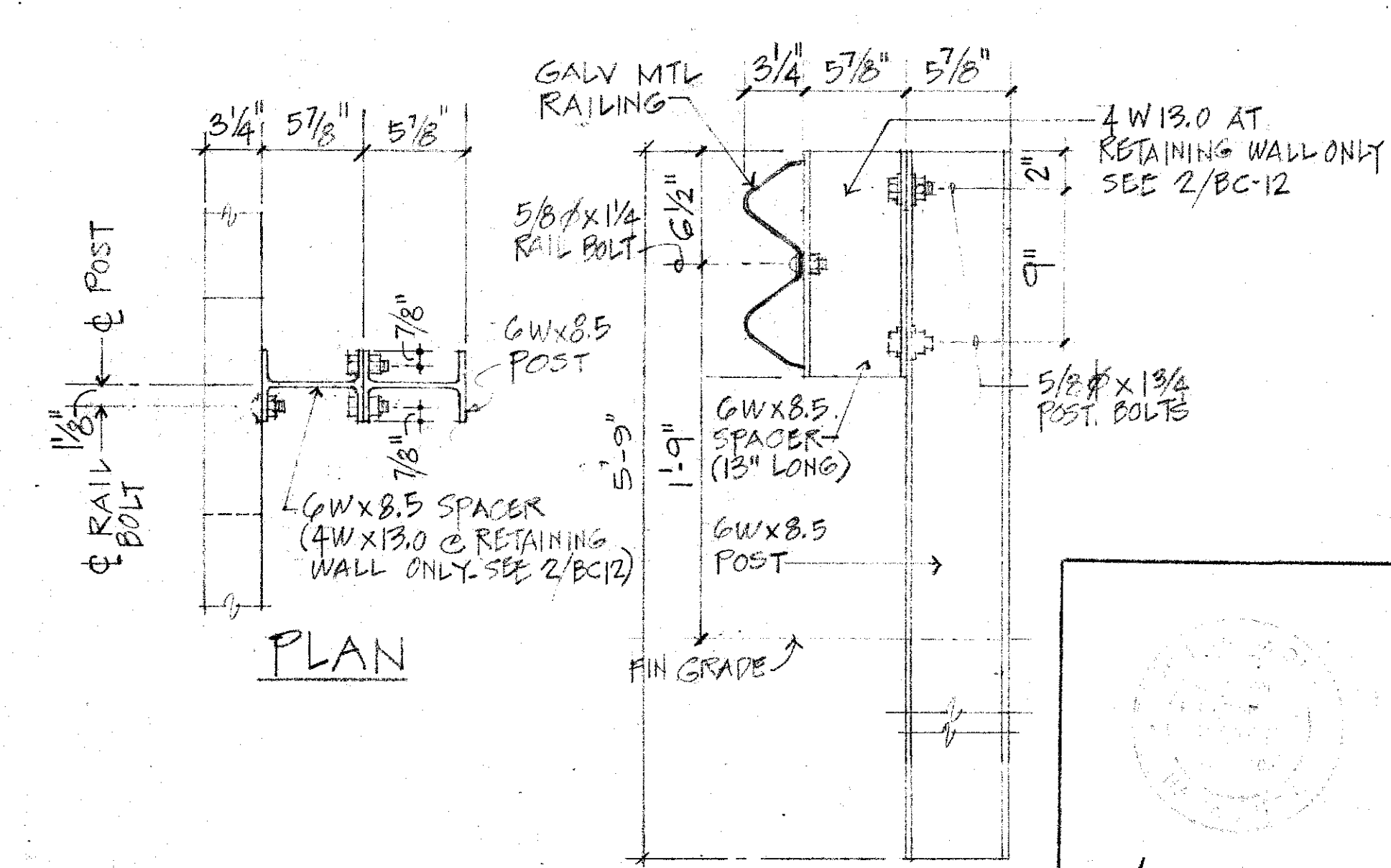
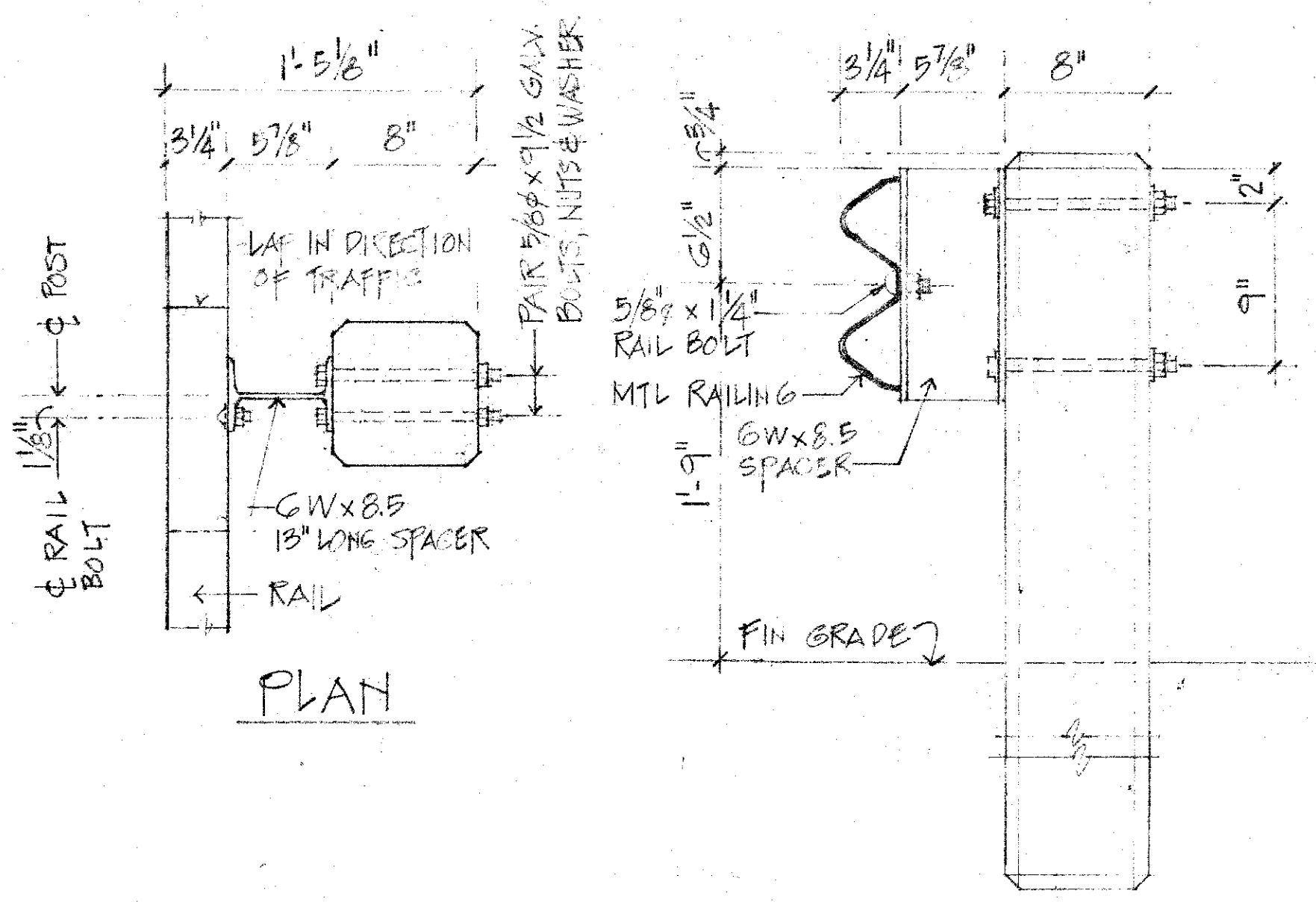
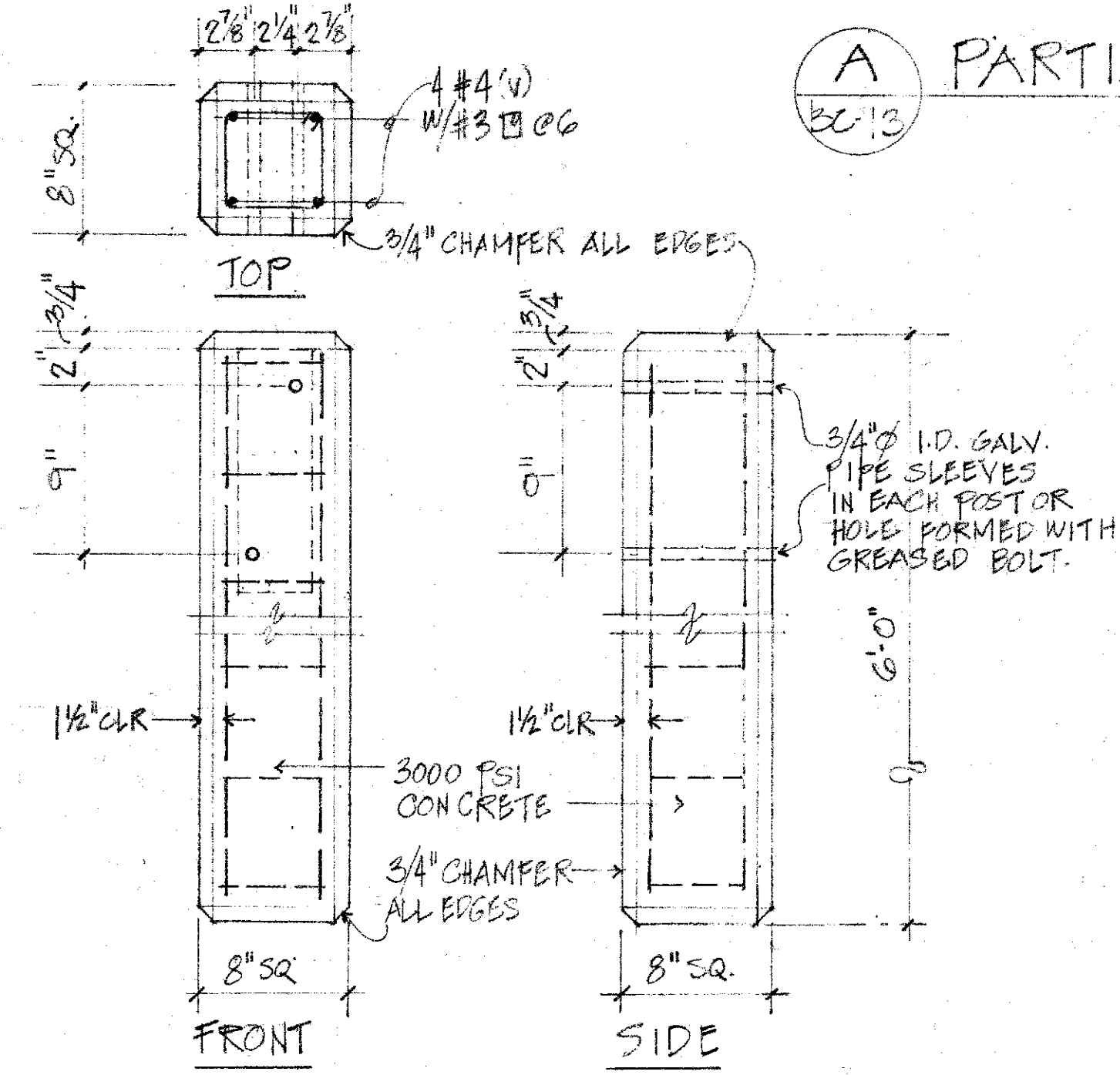
NOTE: USE OF PRECAST CONCRETE POSTS FOR GUARD RAIL SUPPORTS IS OPTIONAL EXCEPT AT RETAINING WALL AND ACCESSSES TO MAINTENANCE ROADS WHERE STEEL POSTS ARE REQUIRED.



RETAINING WALL and GUARD RAIL LAYOUT @ KANEHOE ABUTMENT



A PARTIAL DETAIL PLAN and ELEVATION



1 PRECAST CONC. POST DET. 1 1/2\" = 1'-0"

2 TYP CONC POST and MTL RAILING DET 1 1/2\" = 1'-0"

3 TYP MTL POST and RAILING DET 1 1/2\" = 1'-0"

U. S. DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE

NO.	DATE	DESCRIPTION	ENGR.	DEPT. OR DIV.

REVISIONS

APPR'D

DEPARTMENT OF PUBLIC WORKS

CITY AND COUNTY OF HONOLULU

DIVISION OF ENGINEERING

KAMEHAMEHA HIGHWAY BRIDGE

OVER KAHALUU STREAM

KAHALUU, OAHU, HAWAII

GUARD RAIL DETAILS

ENGINEER: M.T. DATE: 6/7/77

DRAFTSMAN: J.R.L. CHECKED BY:

APPROVED: [Signature] CHIEF, DIVISION OF ENGINEERING

JOB NO. 38-77 DWG. NO. 7-E-23094

