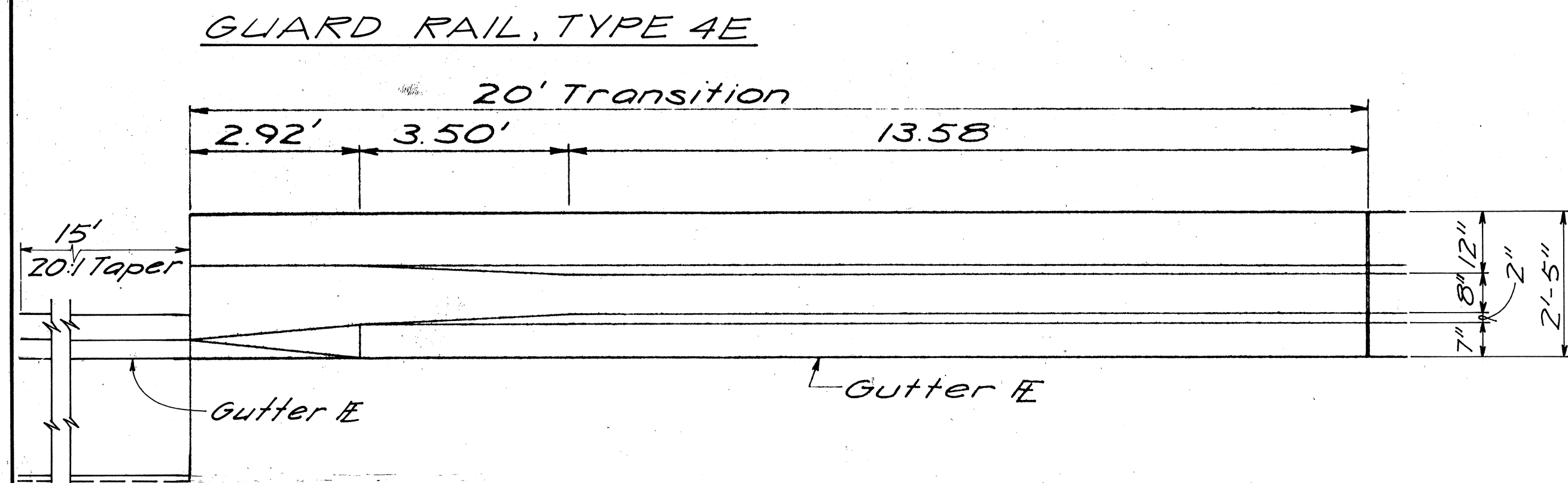
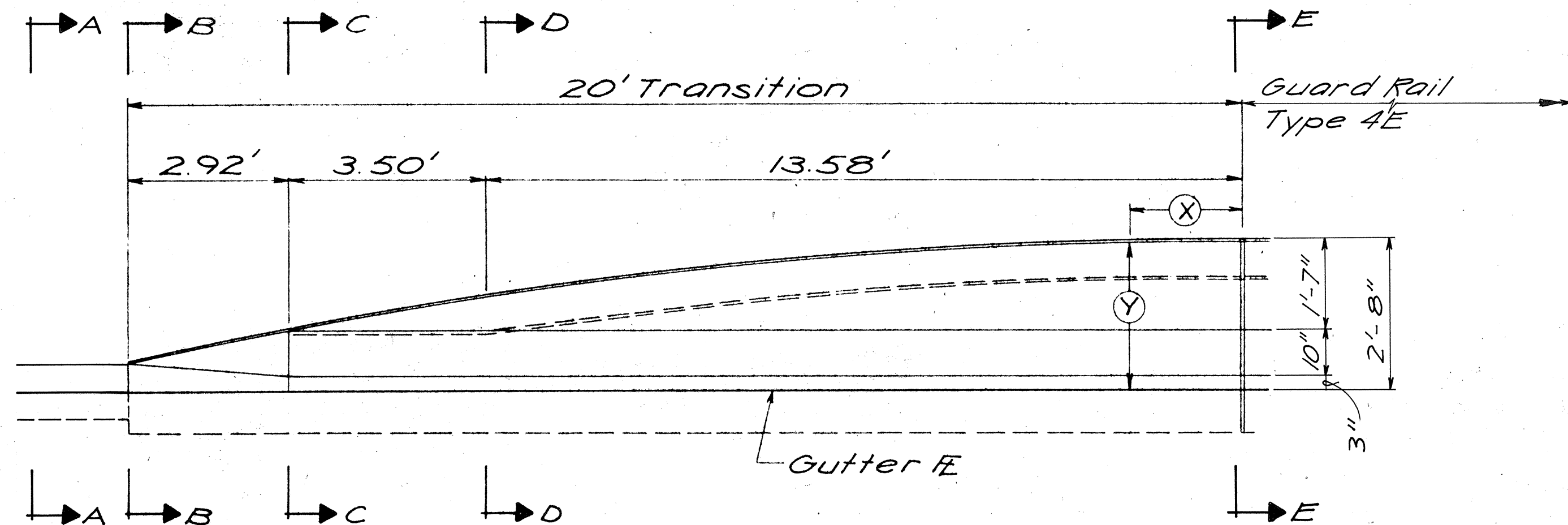


FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-H-1(146):16	1979	7	283

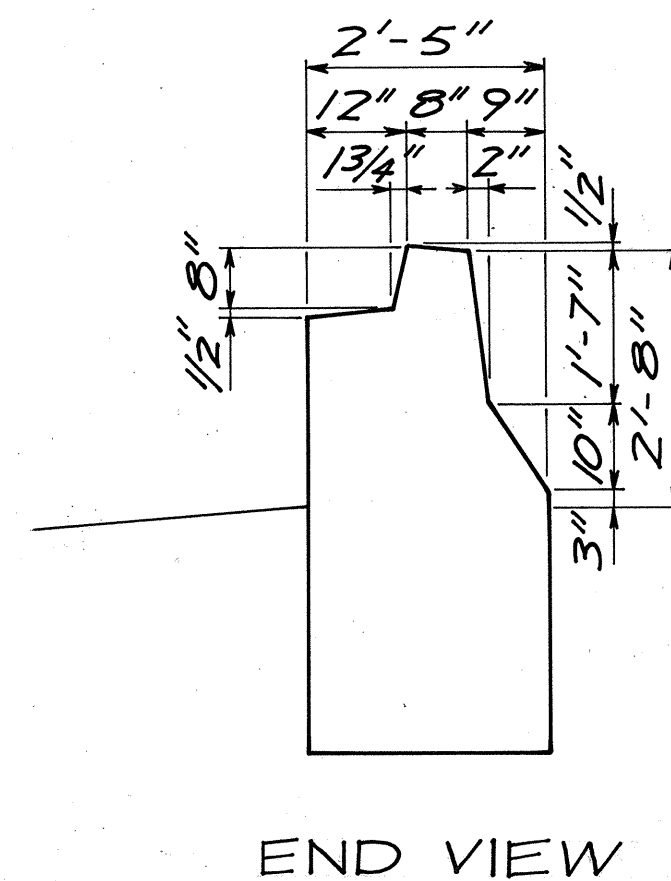
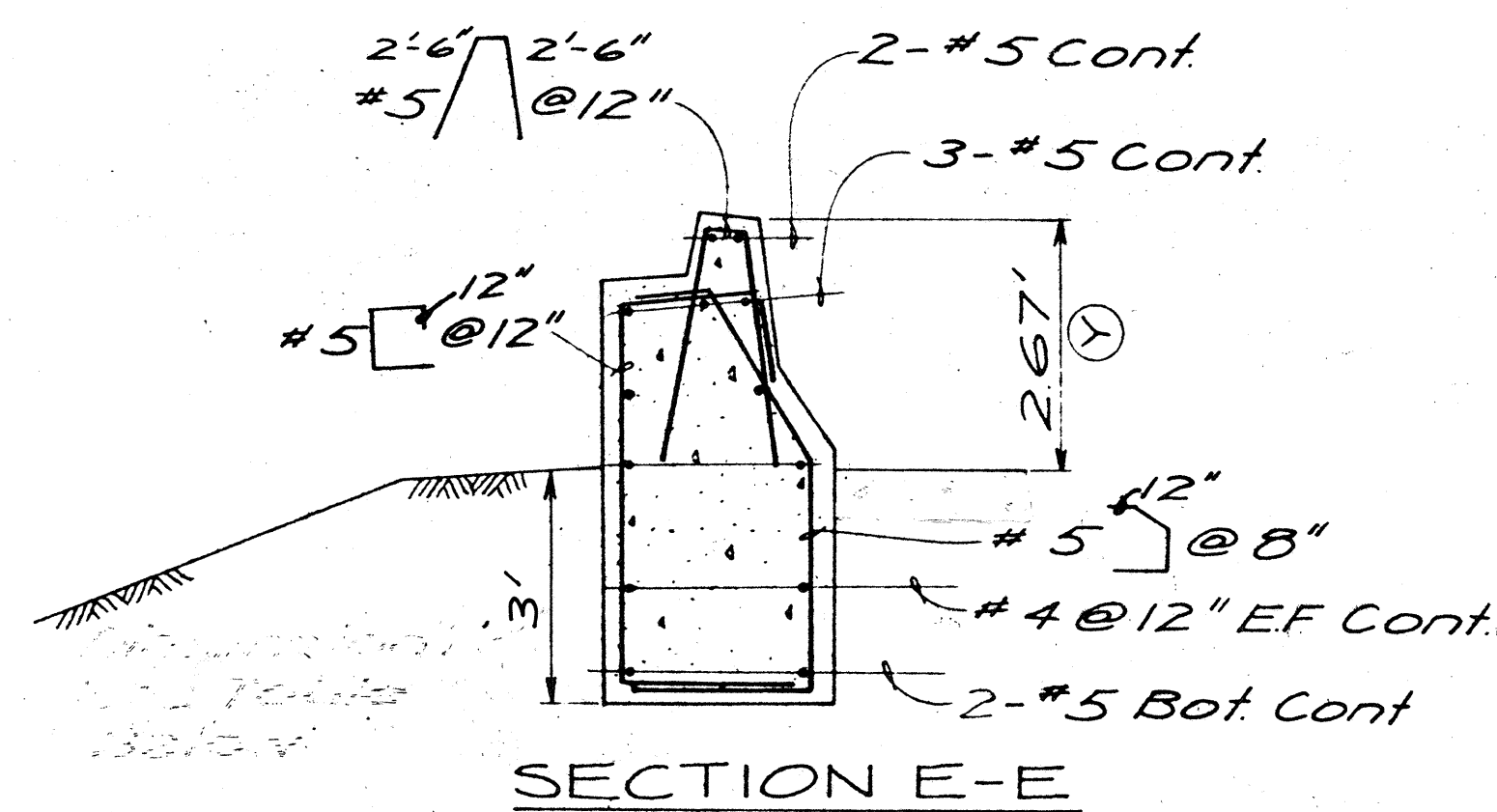
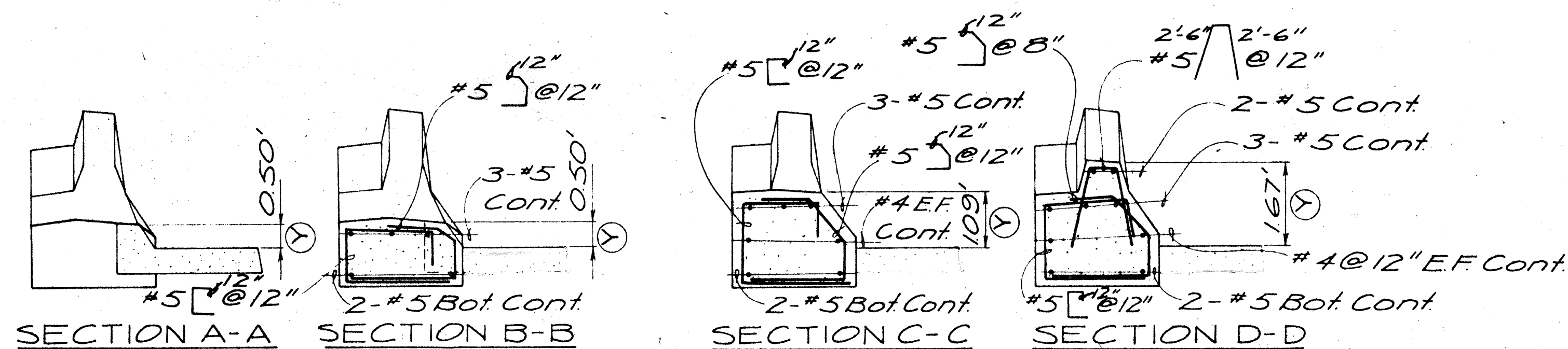


PLAN VIEW



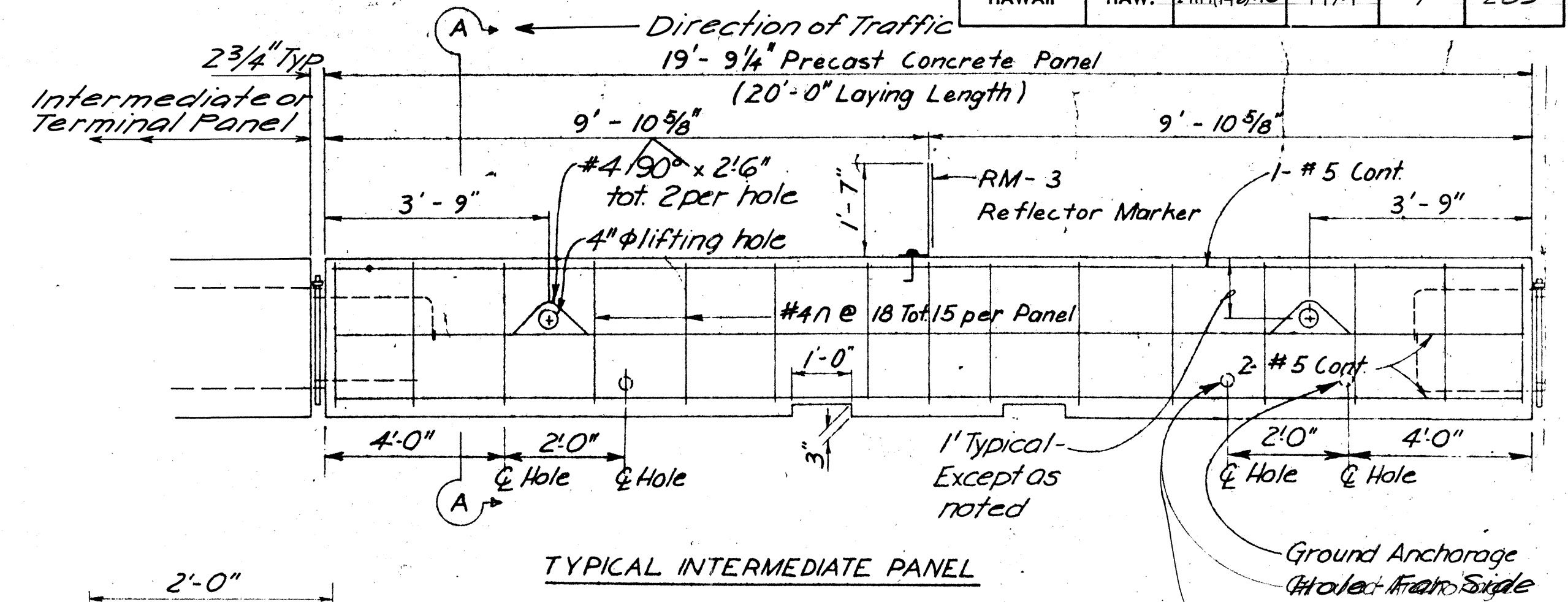
ELEVATION

20' TRANSITION SECTION
SCALE: 1/2" = 1'-0"



HEIGHT OF TRANSITION	
X	Y
0	2.67'
1	2.66'
2	2.65'
3	2.62'
4	2.58'
5	2.53'
6	2.47'
7	2.40'
8	2.32'
9	2.23'
10	2.13'
11	2.01'
12	1.89'
13	1.75'
13.58	1.67'
14	1.61'
15	1.45'
16	1.28'
17	1.10'
17.08	1.00'
18	0.91'
19	0.71'
20	0.50'

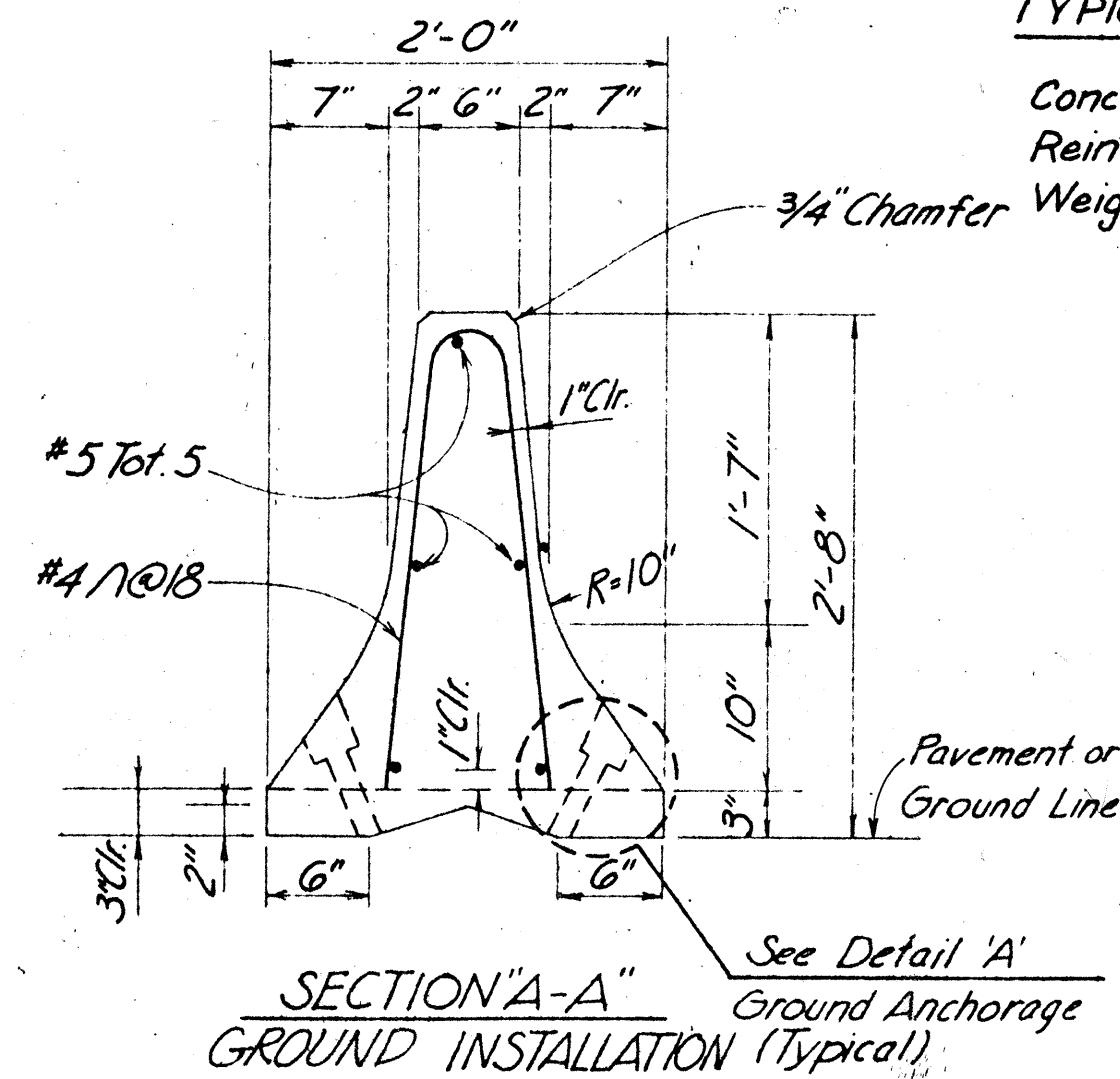
PORTABLE CONC. GUARD RAIL



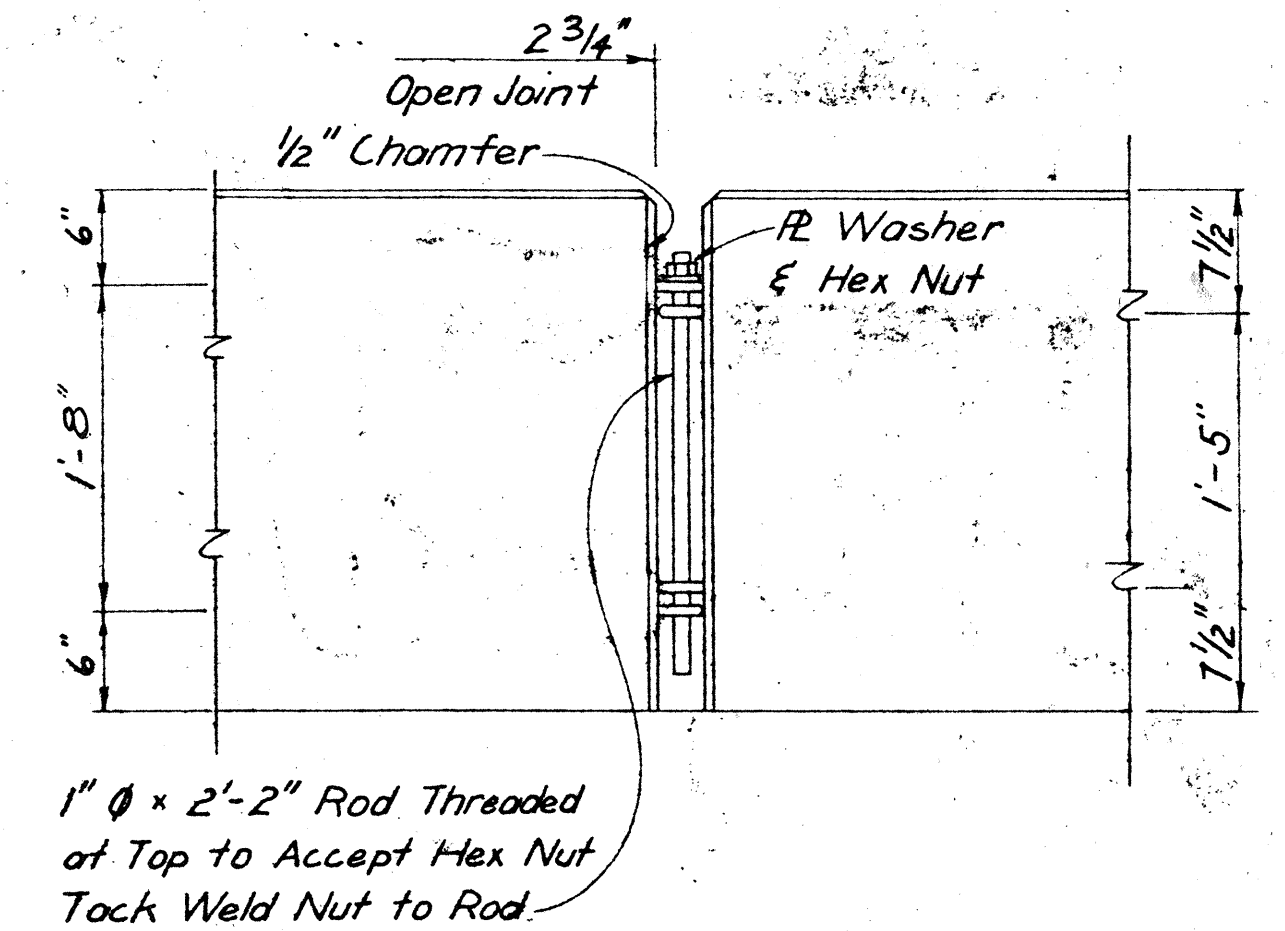
TYPICAL INTERMEDIATE PANEL

Concrete: 1.93 c.y. per Panel
Reinf.: 169 lbs. per Panel
Weight: 3.9 tons per Panel

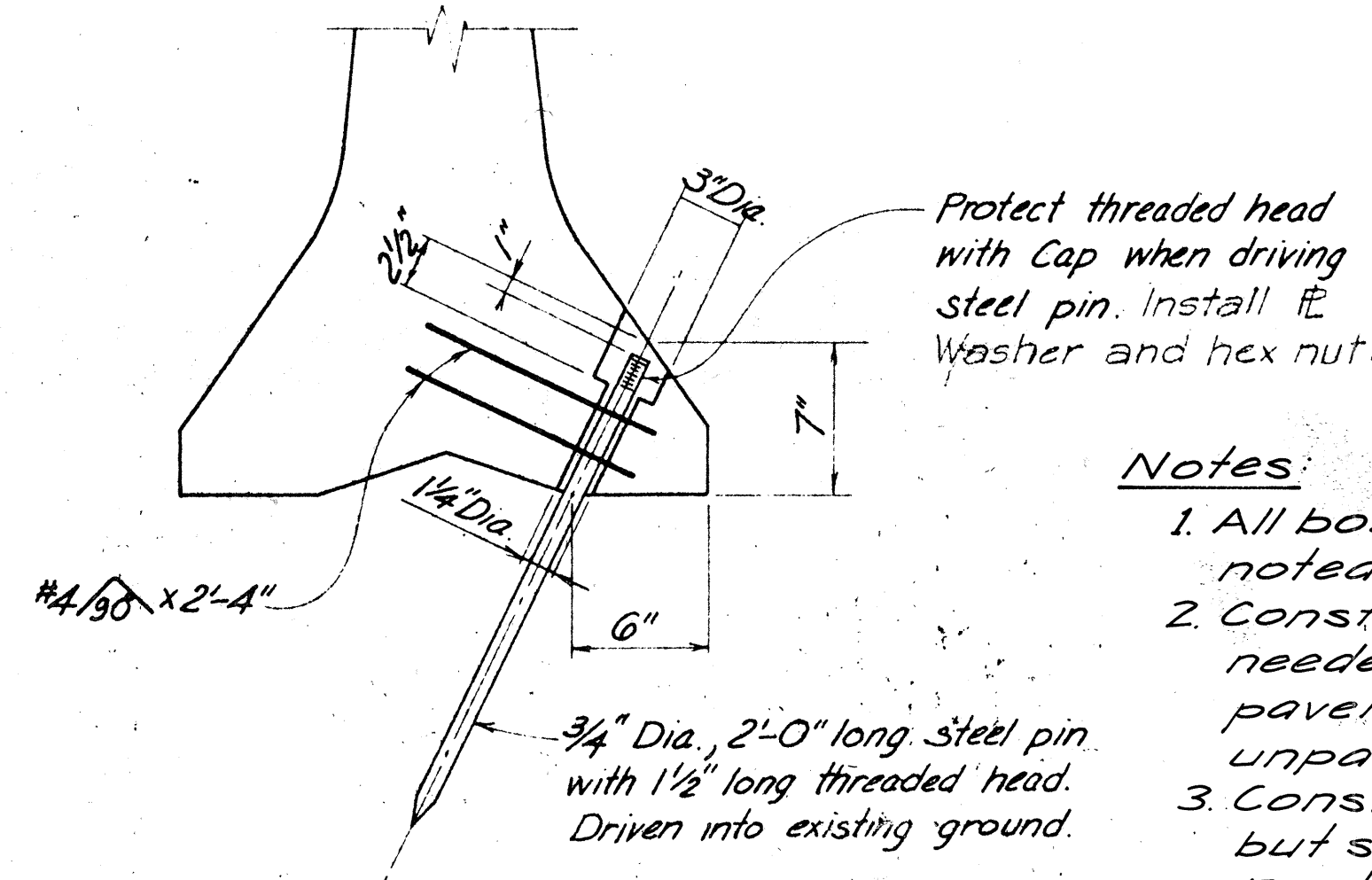
ELEVATION
Scale: 1/2" = 1'-0"



SECTION A-A
GROUND INSTALLATION (Typical)

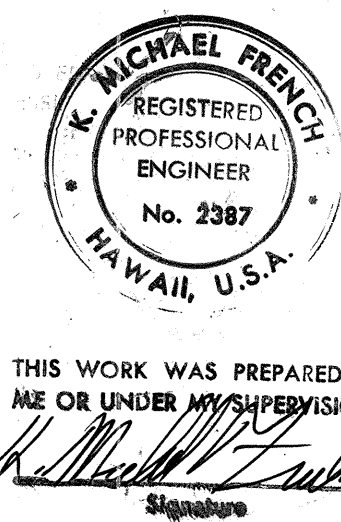


EXISTING PIN CONNECTION DETAIL
Scale: 1" = 1'-0"



DETAIL A - GROUND ANCHORAGE
Scale: 1/2" = 1'-0"

- Notes:
1. All bolts to have cut washers unless otherwise noted.
 2. Construct asphalt concrete or mortar base where needed for proper sitting at Guard Rail on Exist. pavement and use aggregate base material on unpaved areas.
 3. Construction of base shall not be paid separately but shall be considered incidental to "Reset Portable Concrete Guard Rail."
 4. Portable Conc. Guard Rail shall be cut as necessary or add lengths cast to fit end stations as directed incidental to Portable Conc. Guard Rail.



STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

SPECIAL DETAILS
GUARD RAIL, TYPE 4E
PORTABLE CONC. GUARD RAIL
AIRPORT INTERCHANGE
F.A.I. PROJ. NO. I-H-1(146):16

SCALE: AS SHOWN DATE: JUNE 1, 1979
SHEET No. OF SHEETS