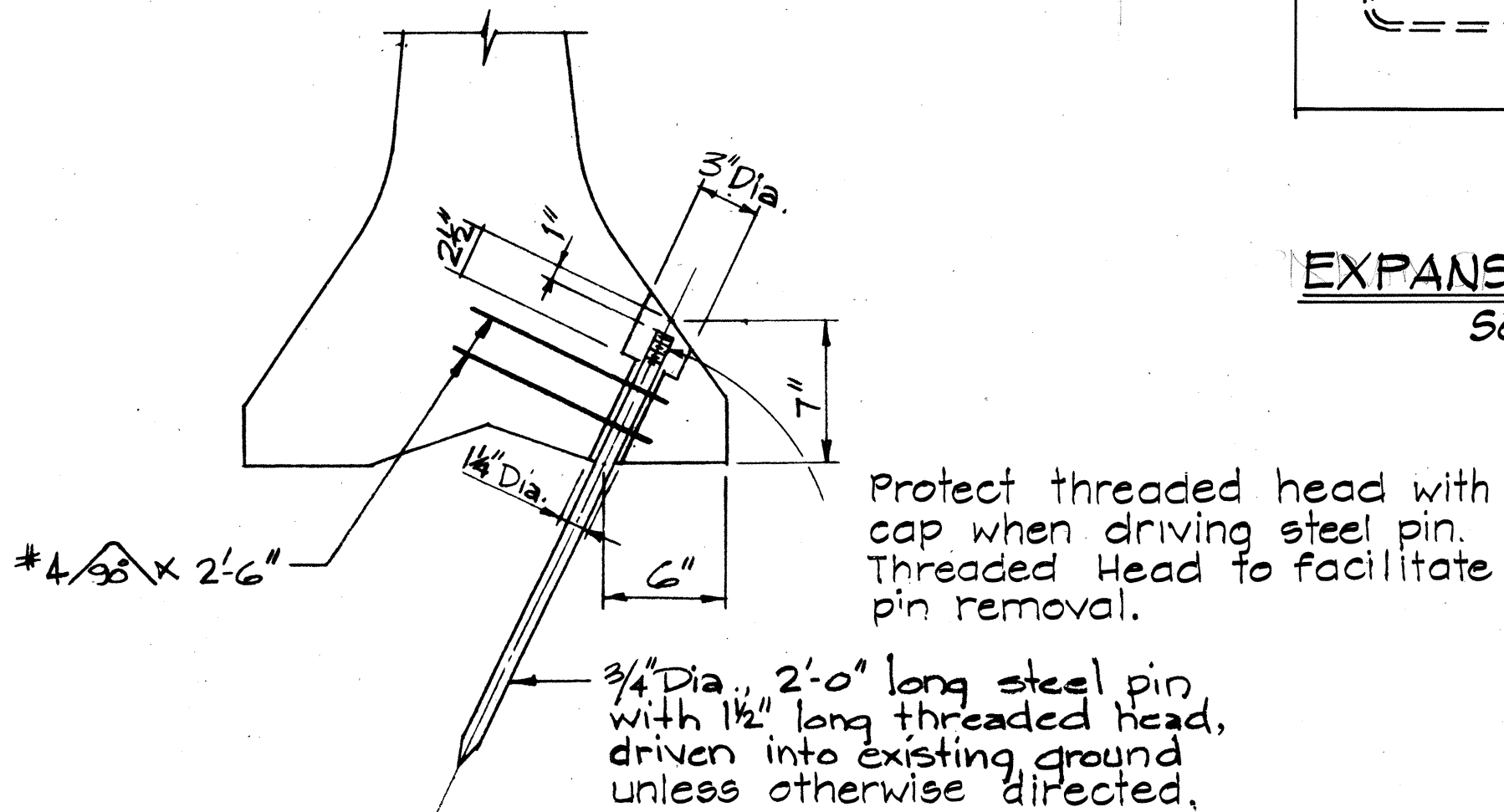
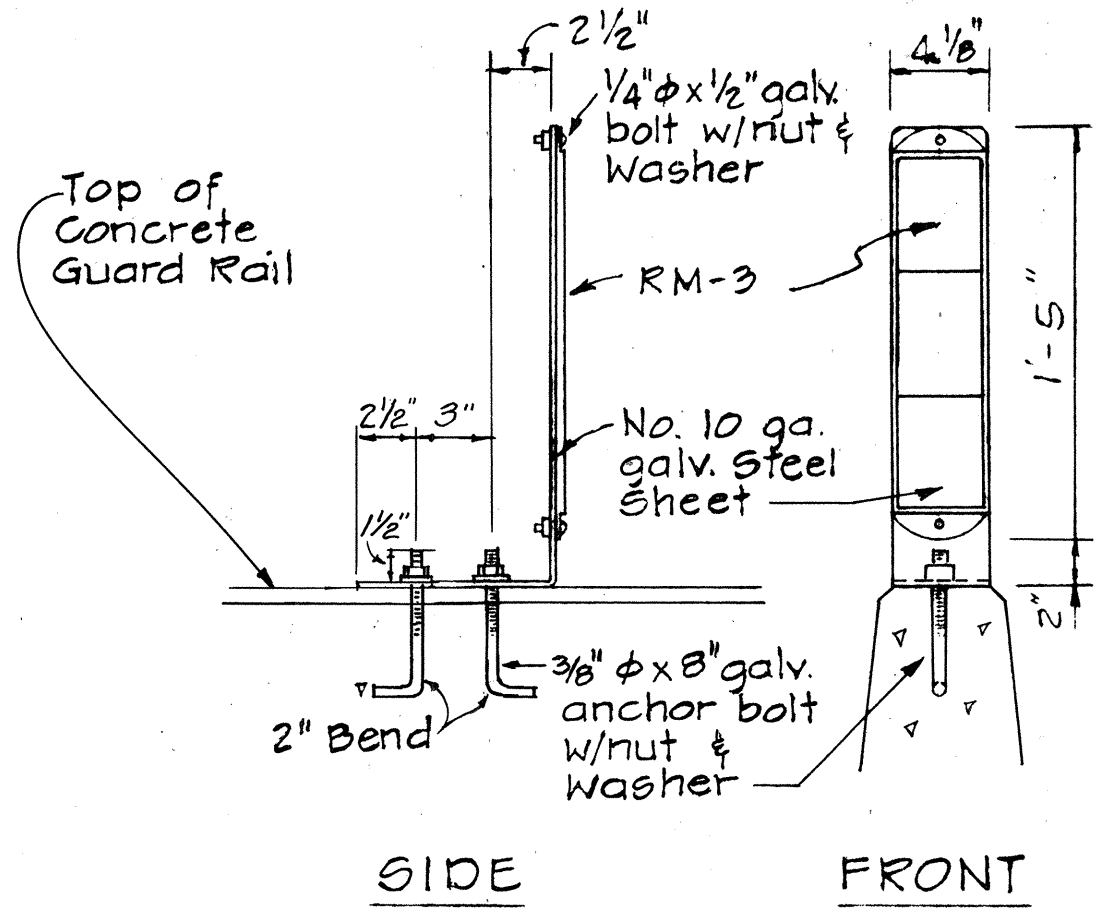
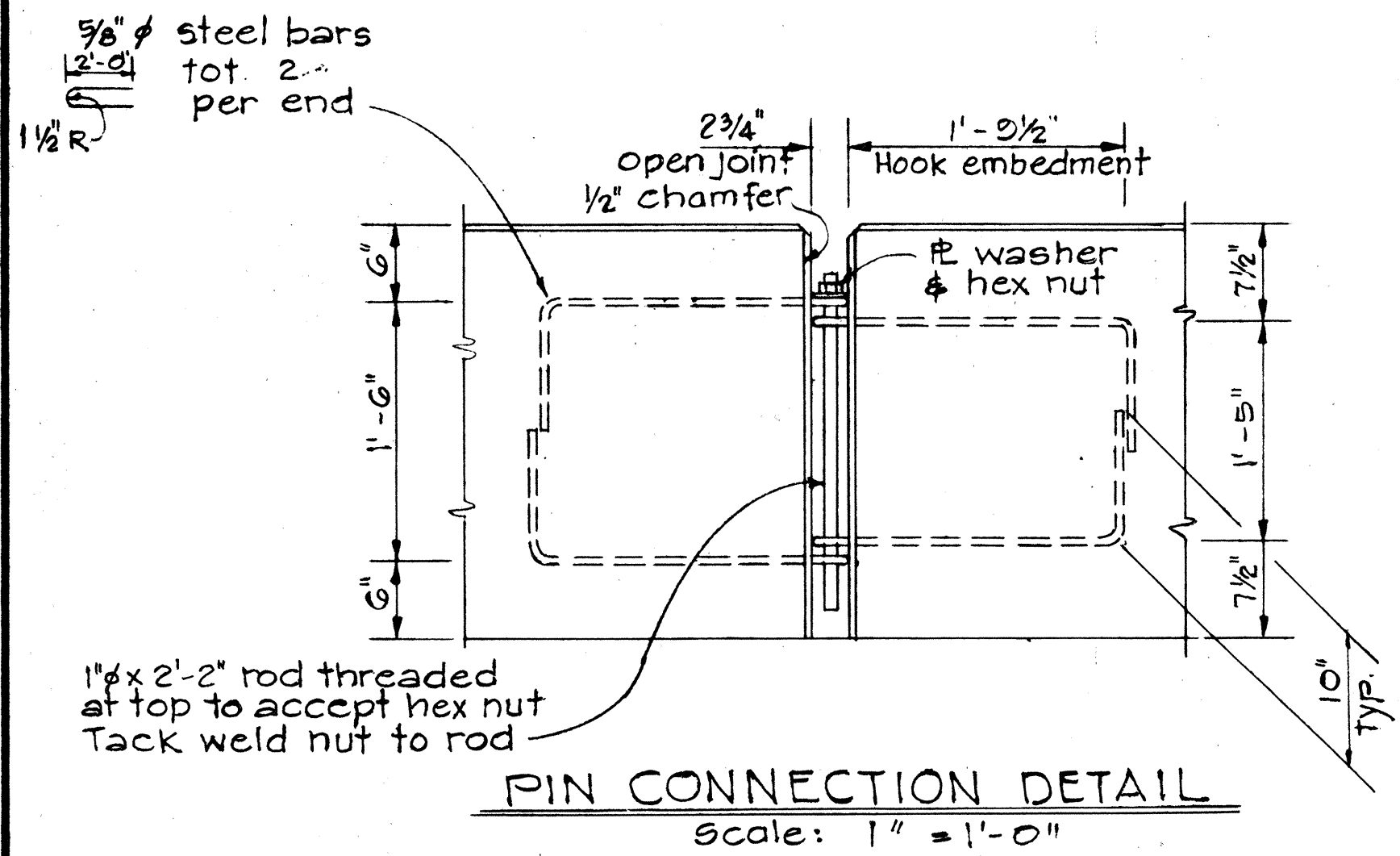
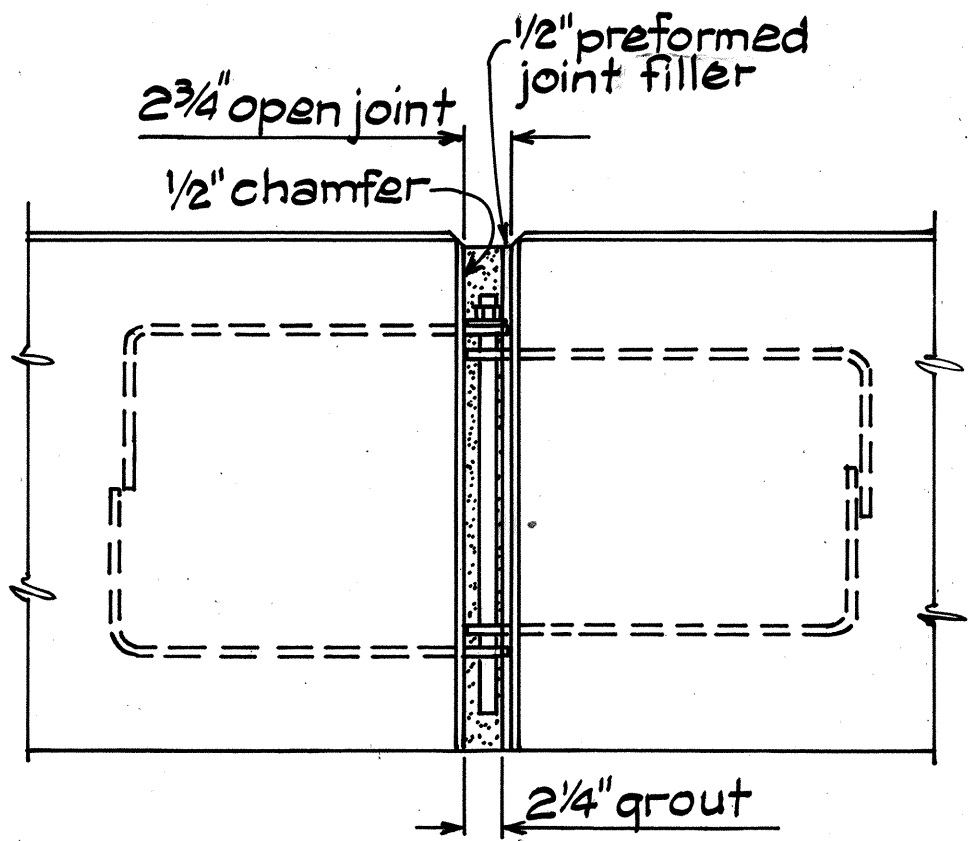
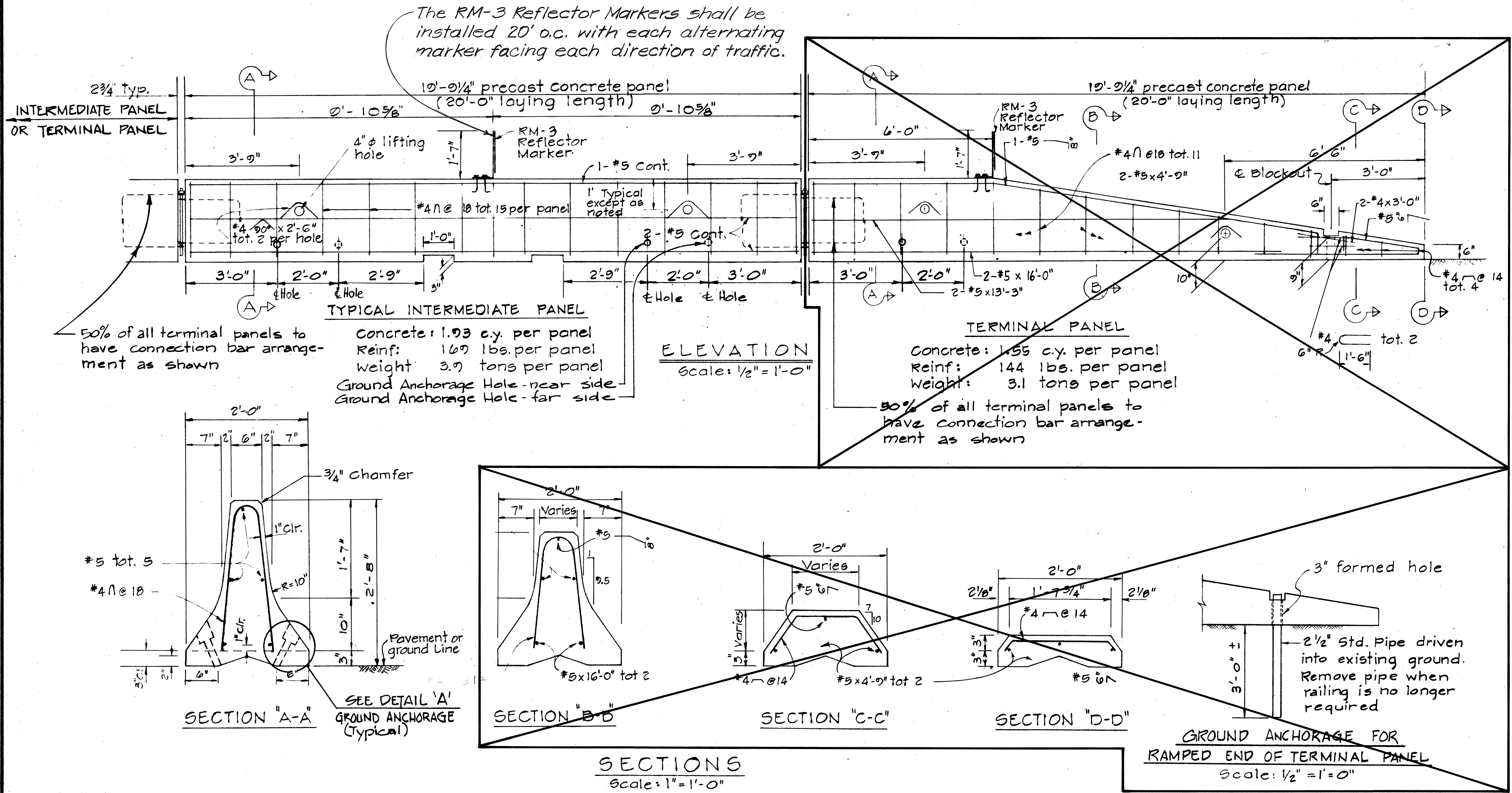


FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	HES-093-1(8)	1986	6	9

NOTES

- The Contractor shall construct an expansion joint as shown in the detail on this sheet at every 80'± of the Portable Concrete Guard Rail.
- Reflector Marker shall not be paid for separately but shall be considered incidental to "Portable Concrete Guard Rail."
- Concrete shall be Class "A".
- All bolts to have cut washers unless otherwise noted.
- Reinforcing steel shall conform to ASTM A-615, Grade 40.
- The 4" Ø lifting holes, ground anchorage holes (near and far side) and the 2 3/4" openings between intermediate panels, shall be grouted closed after the Portable Concrete Guard Rail installation has been approved by the Engineer. Grout shall be a high early strength, non-metallic, non-shrink, pre-mixed formula using silica sand, modified elements, pozzalanic, plasticizing and water reducing agents. Minimum 28 day compressive strength shall be 5,000 p.s.i. Grouting shall not be paid for separately, but shall be considered incidental to Item No. 606.9020 Portable Concrete Guard Rail (Intermediate Panel).



STATE OF HAWAII
 DEPARTMENT OF TRANSPORTATION
 HIGHWAYS DIVISION

PORTABLE CONCRETE GUARD RAIL TYPICAL DETAILS

Scale: As Noted Date: _____

SHEET No. / OF / SHEETS