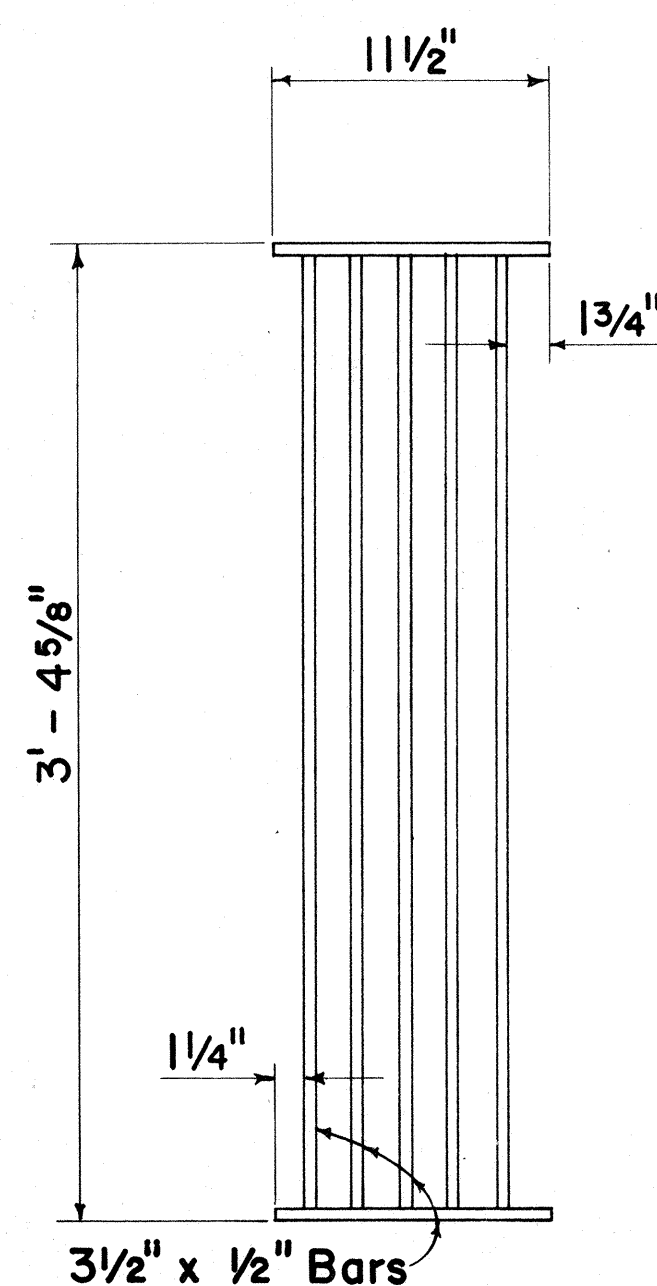


FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	50G-0271	1971	4	7

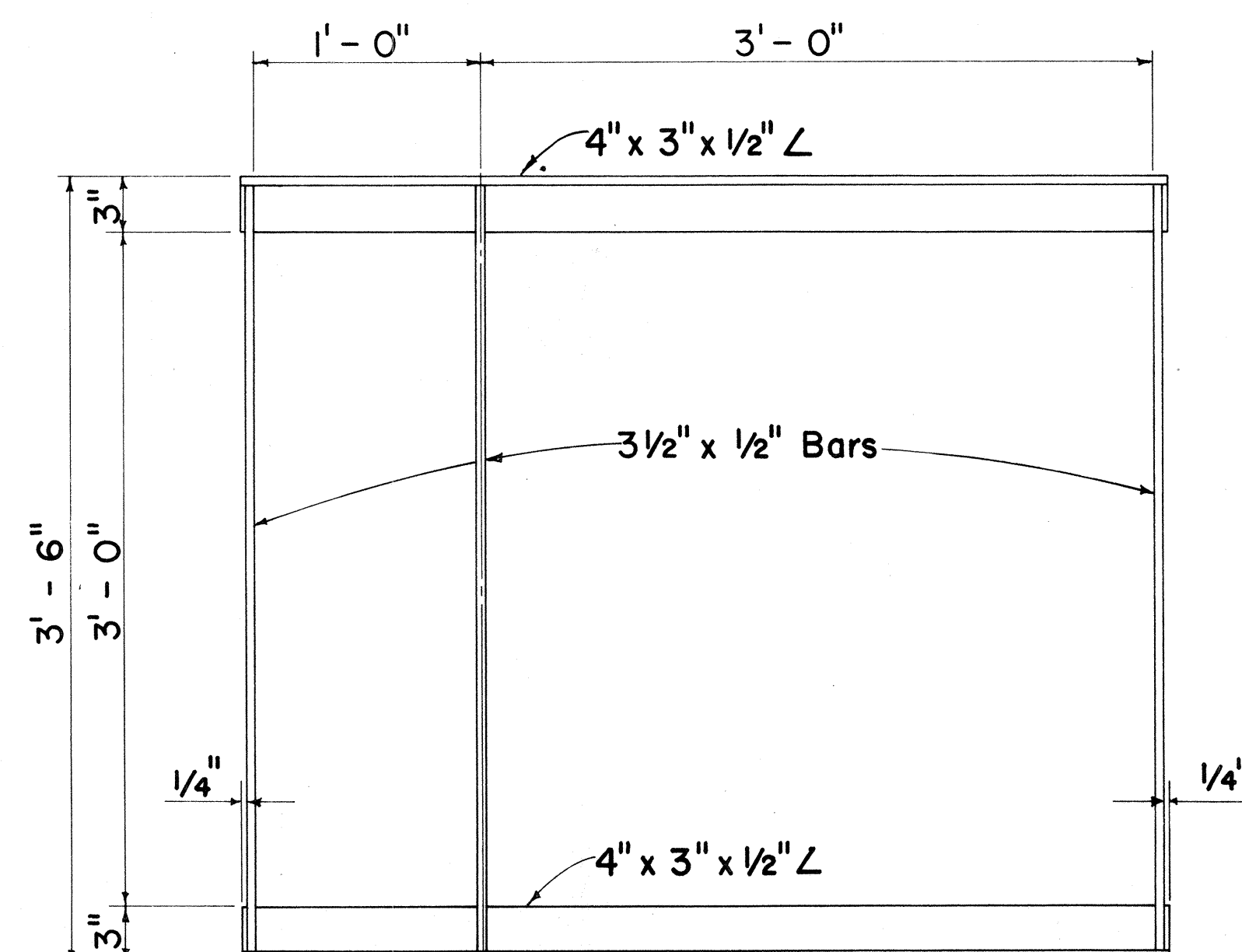
GENERAL NOTES

- Grates and Frames shall be hot dip galvanized after fabrication, see specifications.
- All welds $\frac{3}{8}$ " unless otherwise noted.
- The Frame & Grate materials shall conform to the specifications of ASTM Designation Structural Steel A283, Grade D and the Standard Specifications.
- Culvert shall leave Drop Intake from any position and any direction indicated by plans or ordered by the Engineer. Culverts may both enter and leave Drop Intake so that Drop Intake will act as manhole.
- Manhole Rungs (16" o.c.) are required when "H" is greater than 4 feet 6 inches. Only one rung (12 inches from the bottom) is required if "H" is 4 feet 6 inches or less. The Manhole Rungs may be placed at any location as ordered by the Engineer.



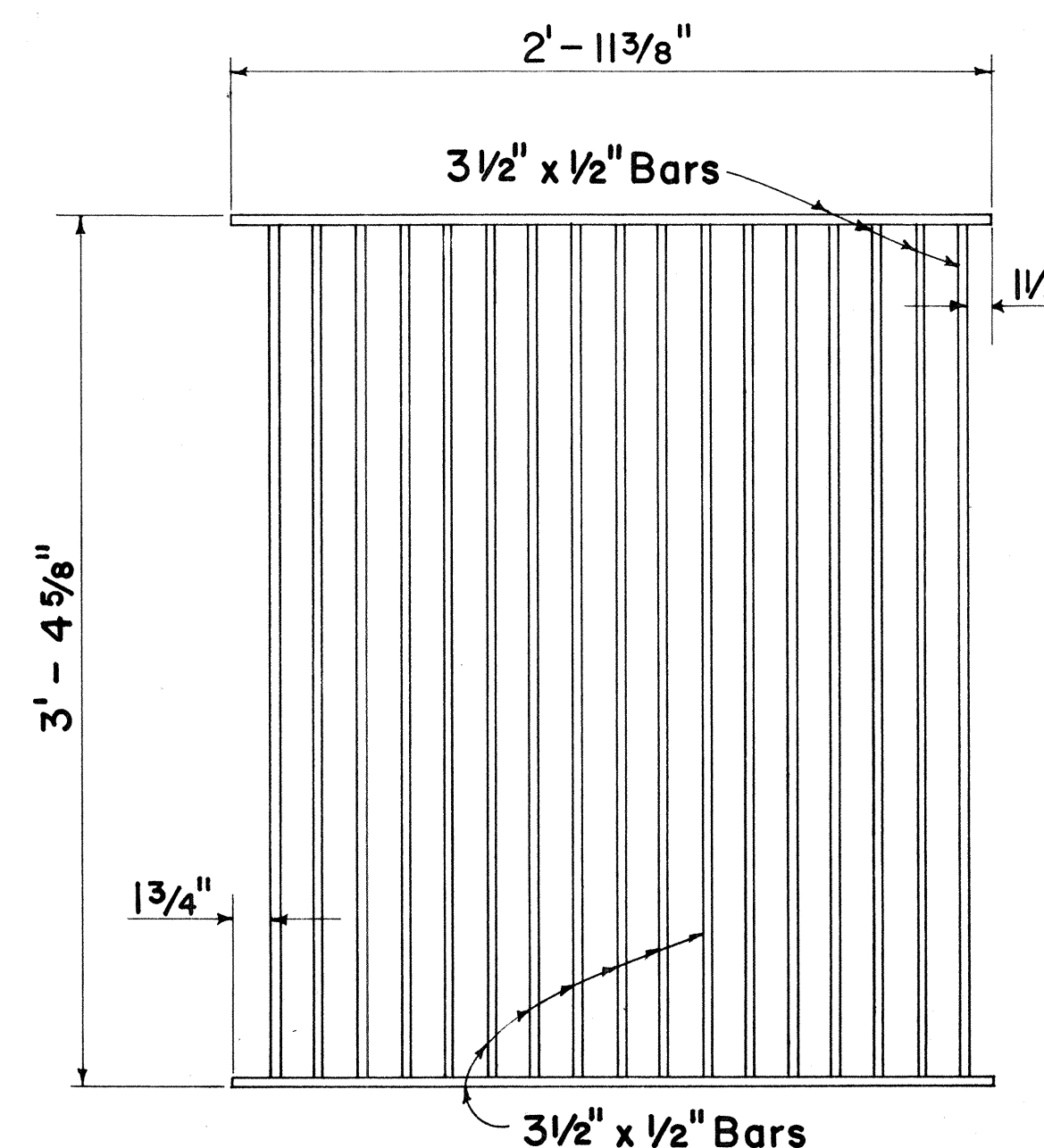
PLAN

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



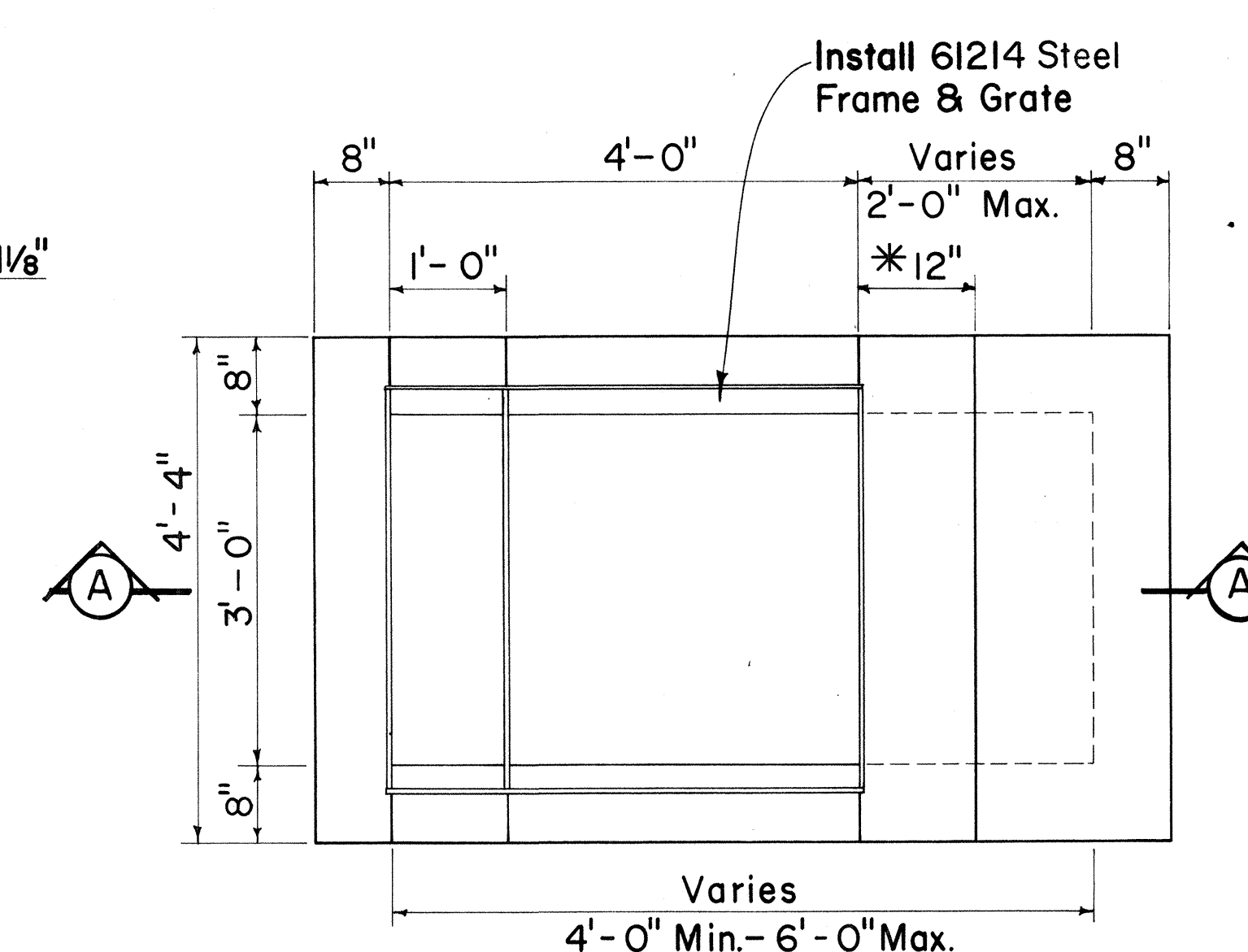
PLAN

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

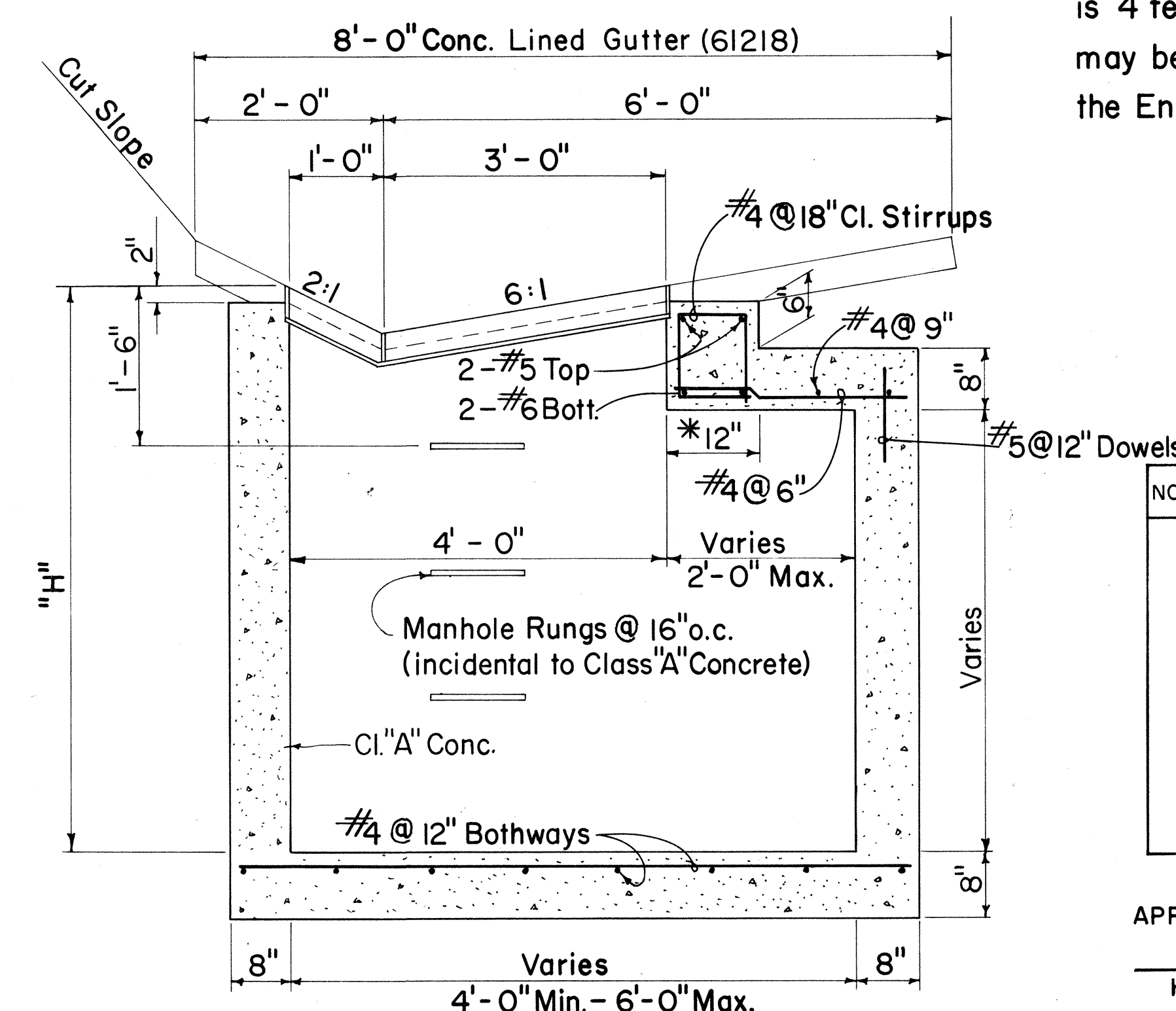


PLAN

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



PLAN

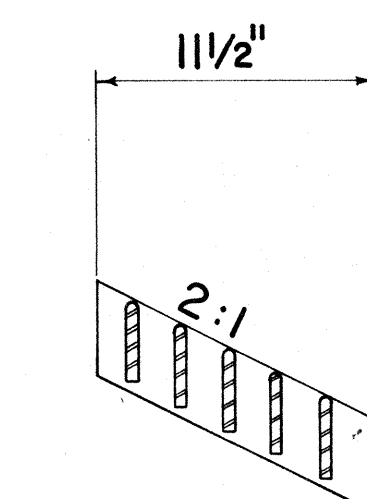


SECTION A - A

DETAIL OF 61214 DROP INTAKE

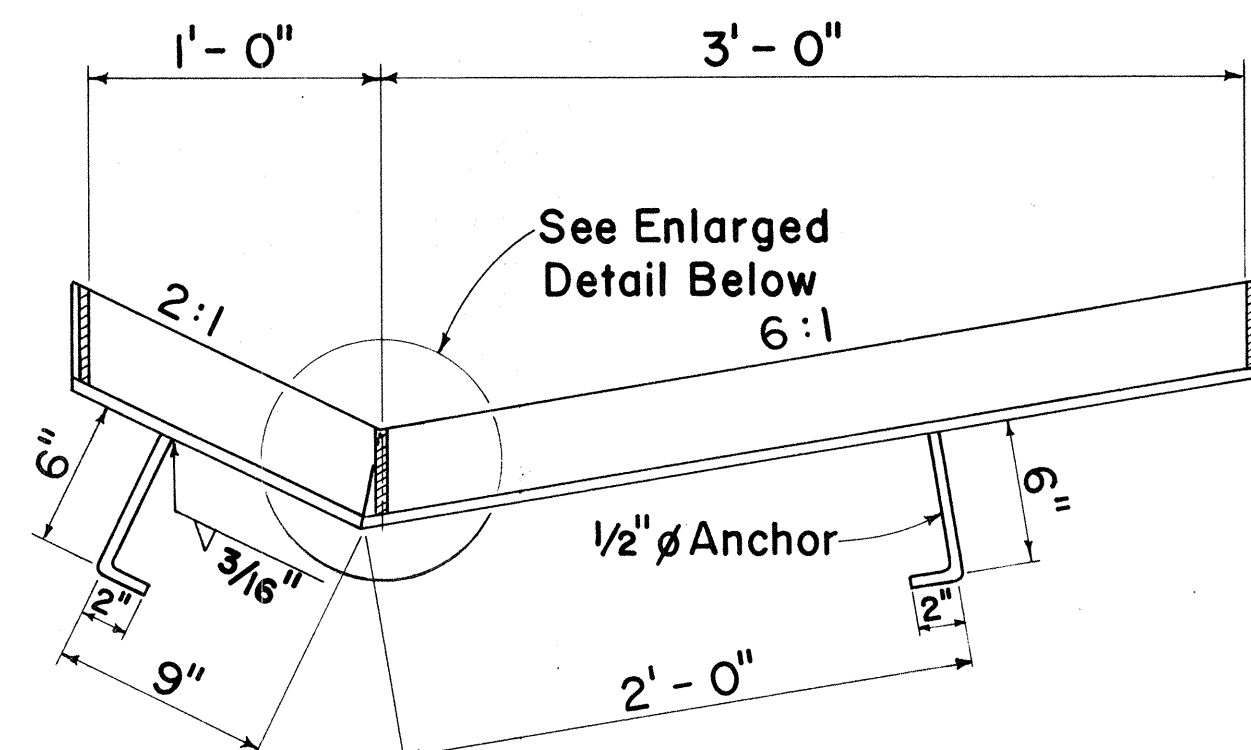
Scale: 3/4" = 1' - 0"

*For Minimum size box of 4'-0" only, use 8" and eliminate reinforcing steel shown in top portion.



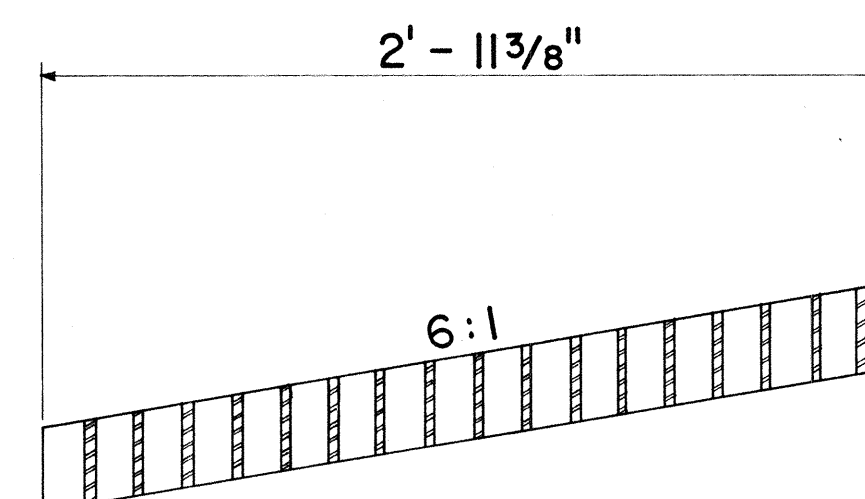
SECTION

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



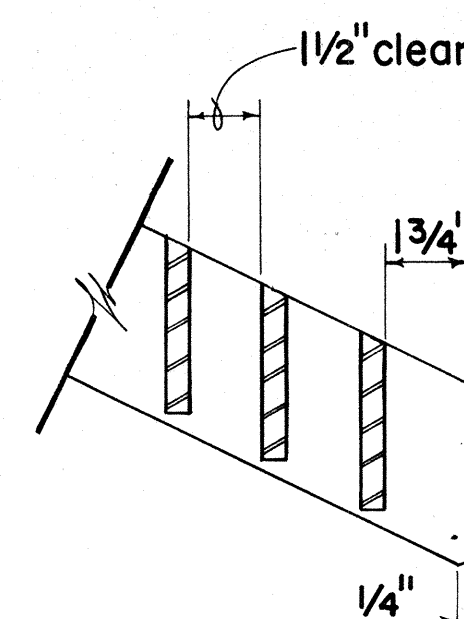
SECTION

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



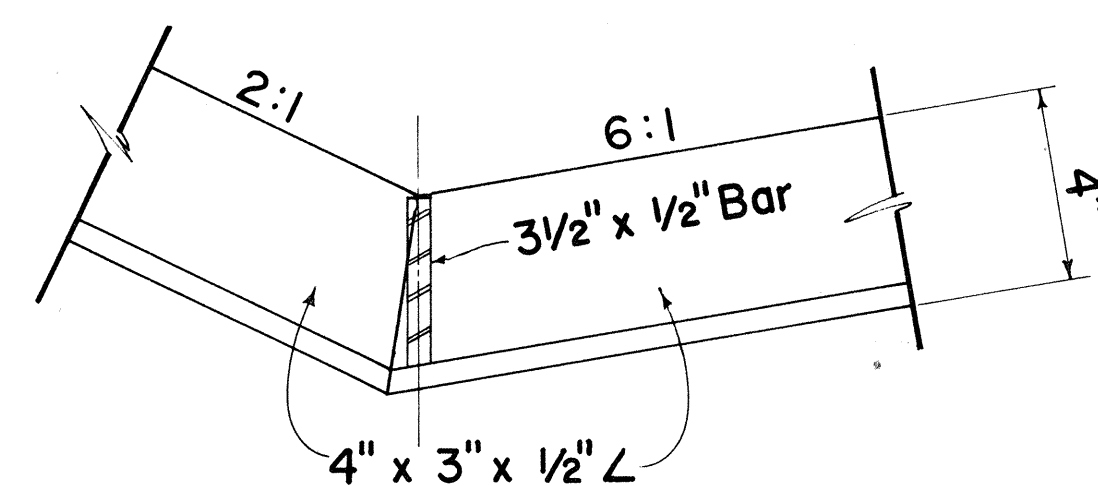
SECTION

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



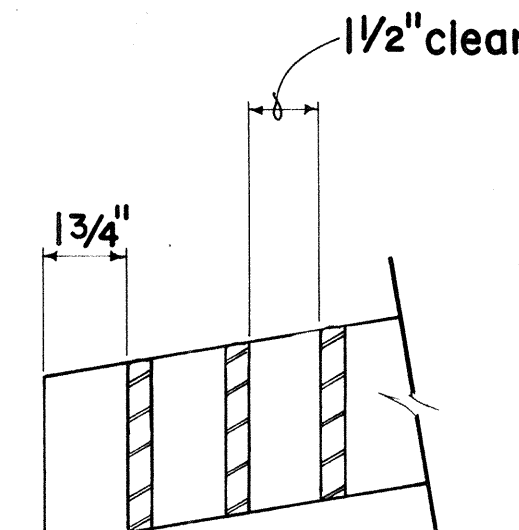
GRATE

Scale: 3" = 1' - 0"



FRAME

Scale: 3" = 1' - 0"



GRATE

Scale: 3" = 1' - 0"

DETAILS OF TYPE 61214 STEEL FRAME AND GRATES

NO.	REVISION	APPROVED BY	DATE

APPROVAL RECOMMENDED:

HYDRAULIC DESIGN ENGINEER

12-17-69
DATE

APPROVED:

ASSISTANT CHIEF, ENGINEERING

12-17-69
DATE

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION
STANDARD DETAILS
TYPE 61214
GRATED DROP INTAKE

Scales: As Noted

Date: July 1969

SHEET No. 1 OF 1 SHEETS DH 9