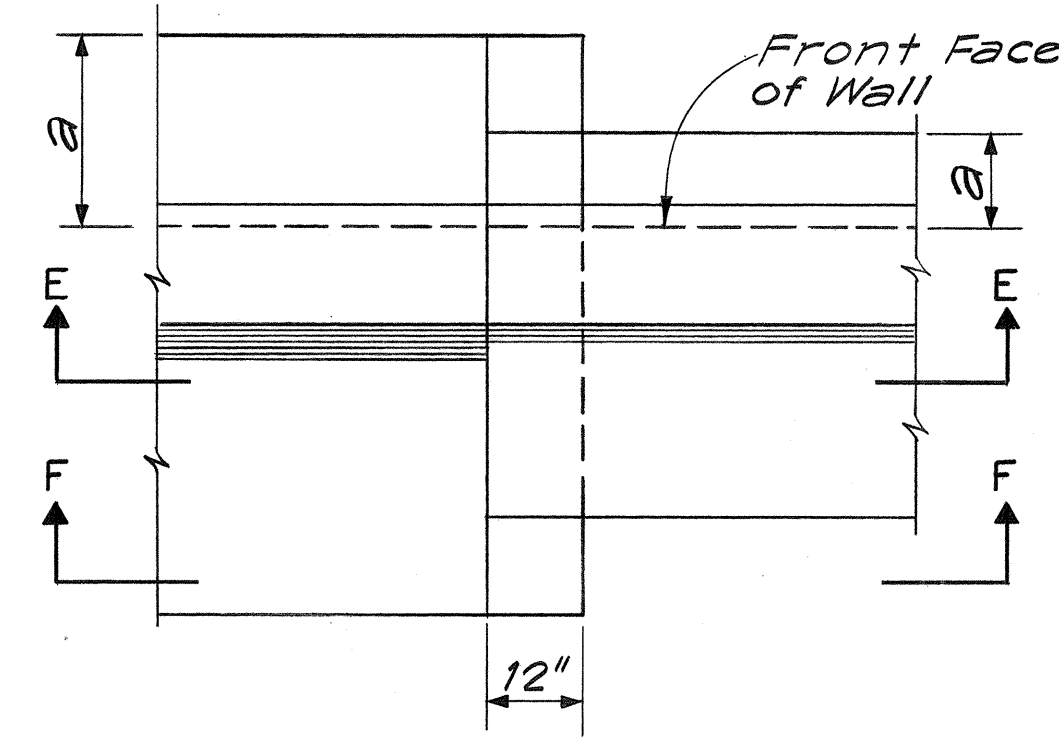
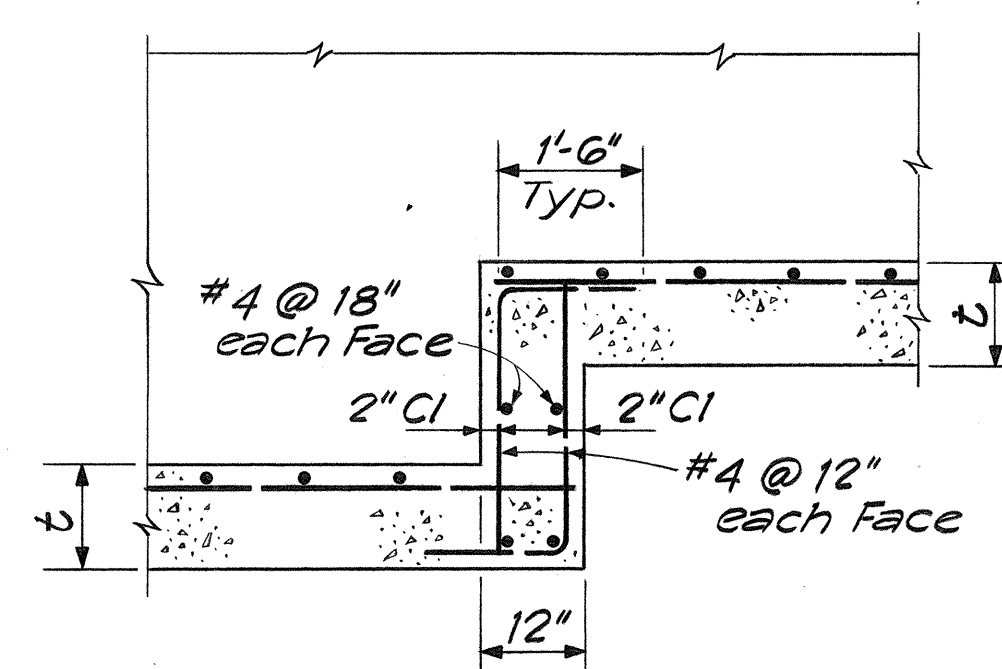


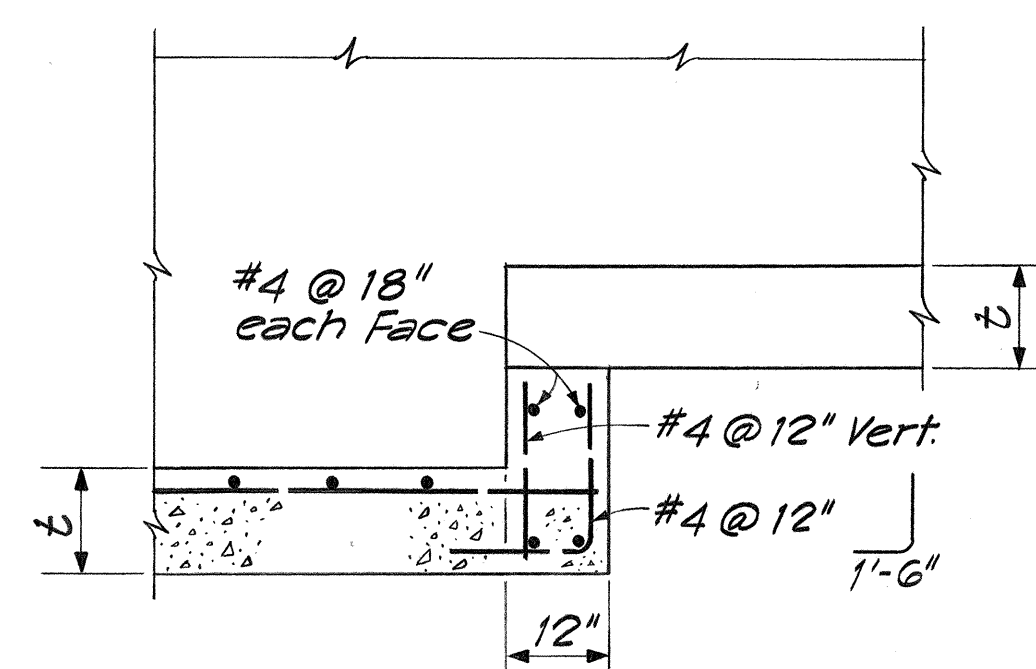
FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-H3-1(25):3	1975	83	111



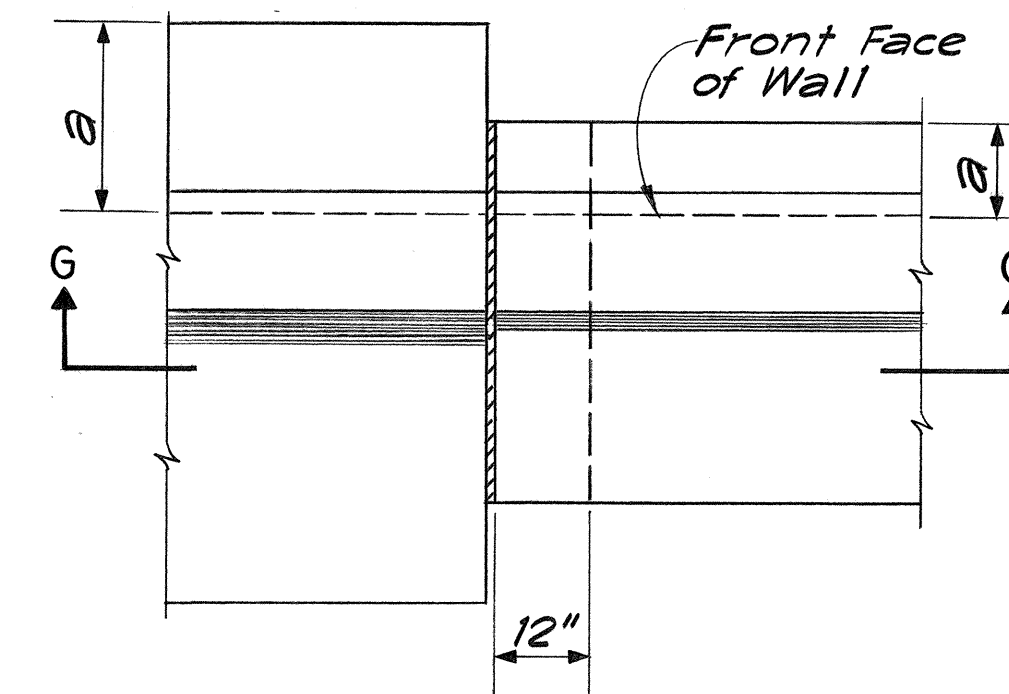
PLAN



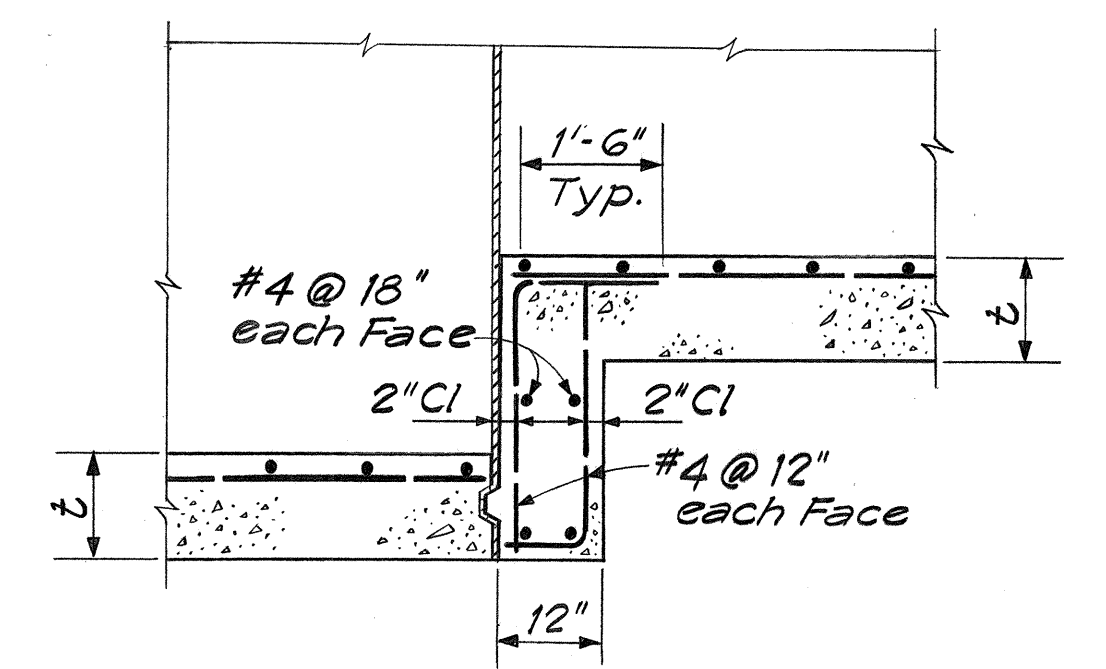
SECTION E-E



SECTION F-F



PLAN



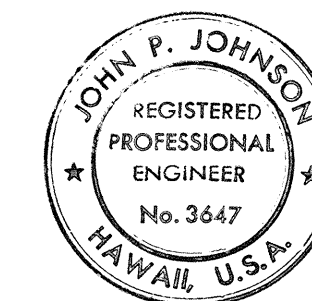
SECTION G-G

AT CONTINUOUS FOOTING

TYPICAL FOOTING STEP-UP DETAILS
NTS

AT EXPANSION JOINT

ORIGINAL PLAN	SURVEY PLOTTED BY	DATE
NOTED BY	DRAWN BY	
NOTED BY	QUANTITIES BY	
NOTED BY	CHECKED BY	
No.		



THIS WORK WAS PREPARED BY
ME OR UNDER MY SUPERVISION.

John P. Johnson

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

RED HILL TUNNELS

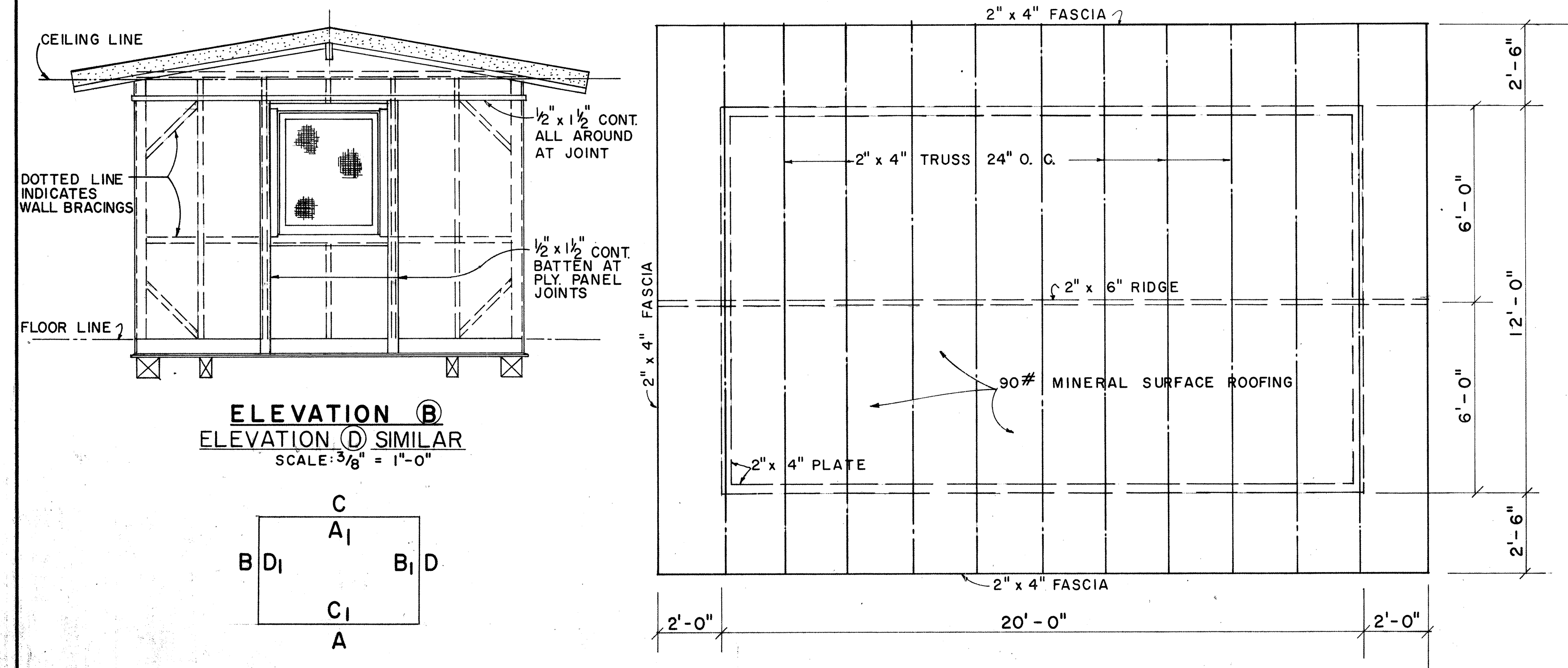
MOANALUA PORTAL
RETAINING WALL DETAILS

F.A.I. PROJECT I-H3-1(25):3

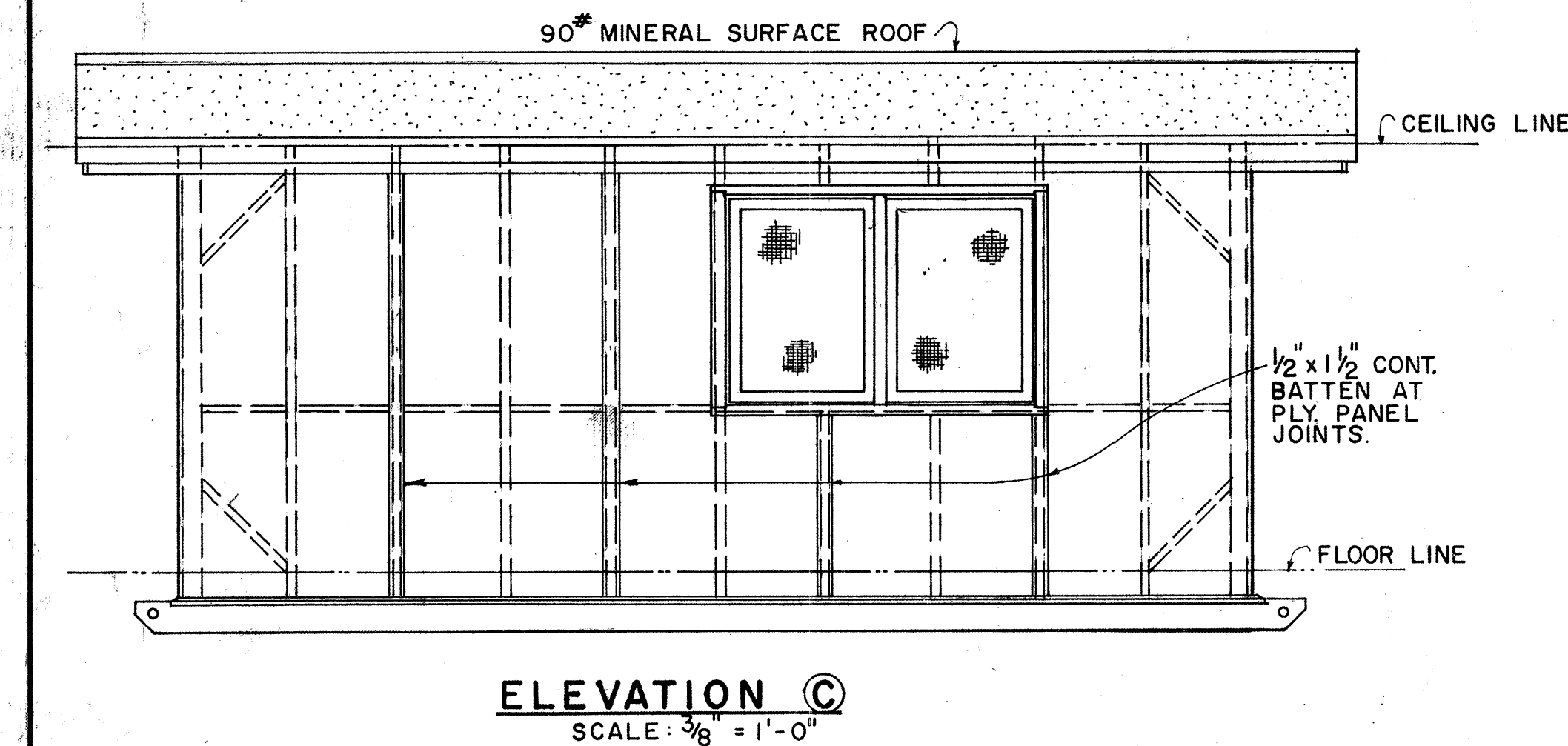
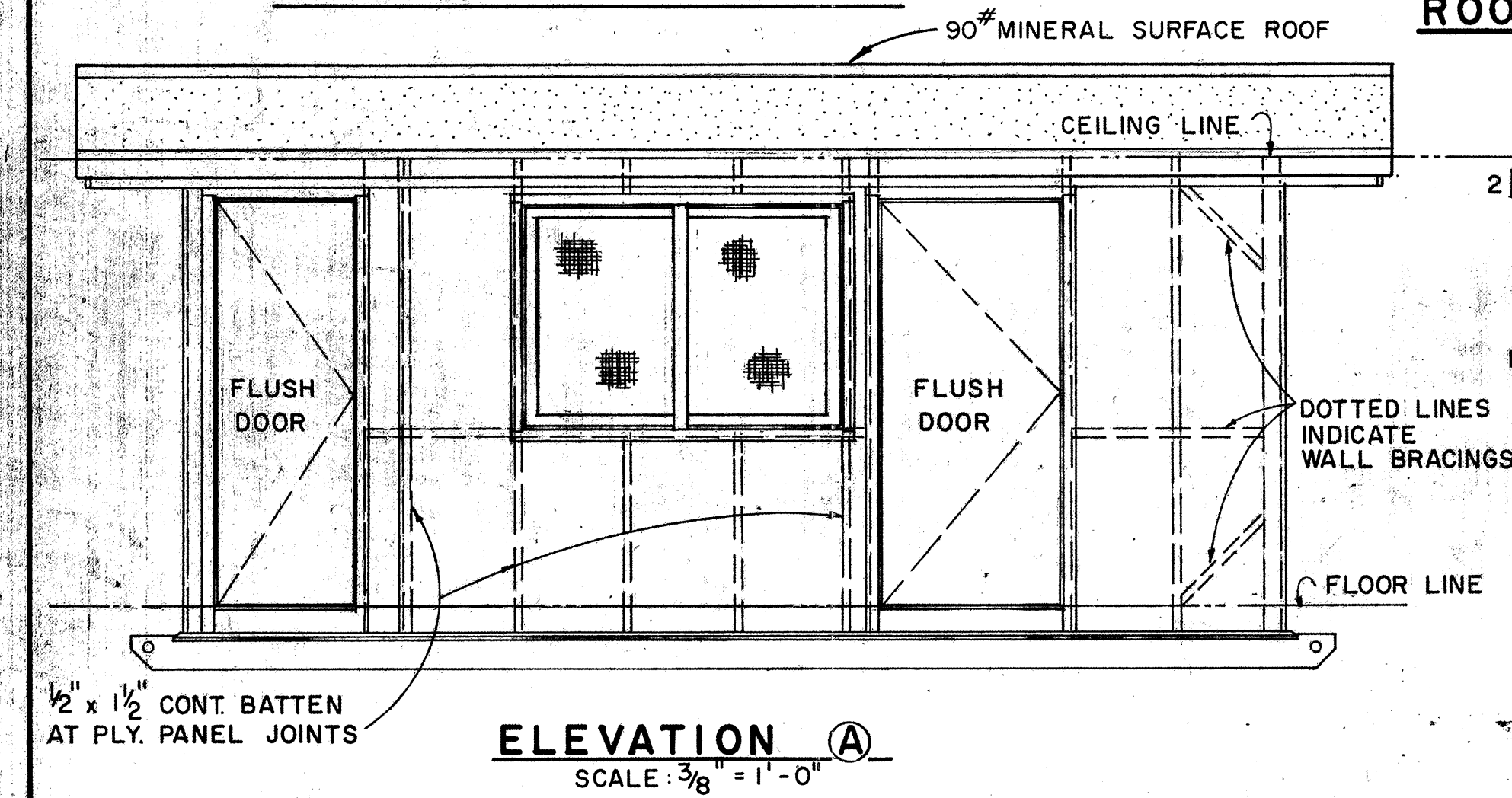
SCALE: NONE DATE: JAN 31, 1975

SHEET NO. 79S OF 86S SHEETS

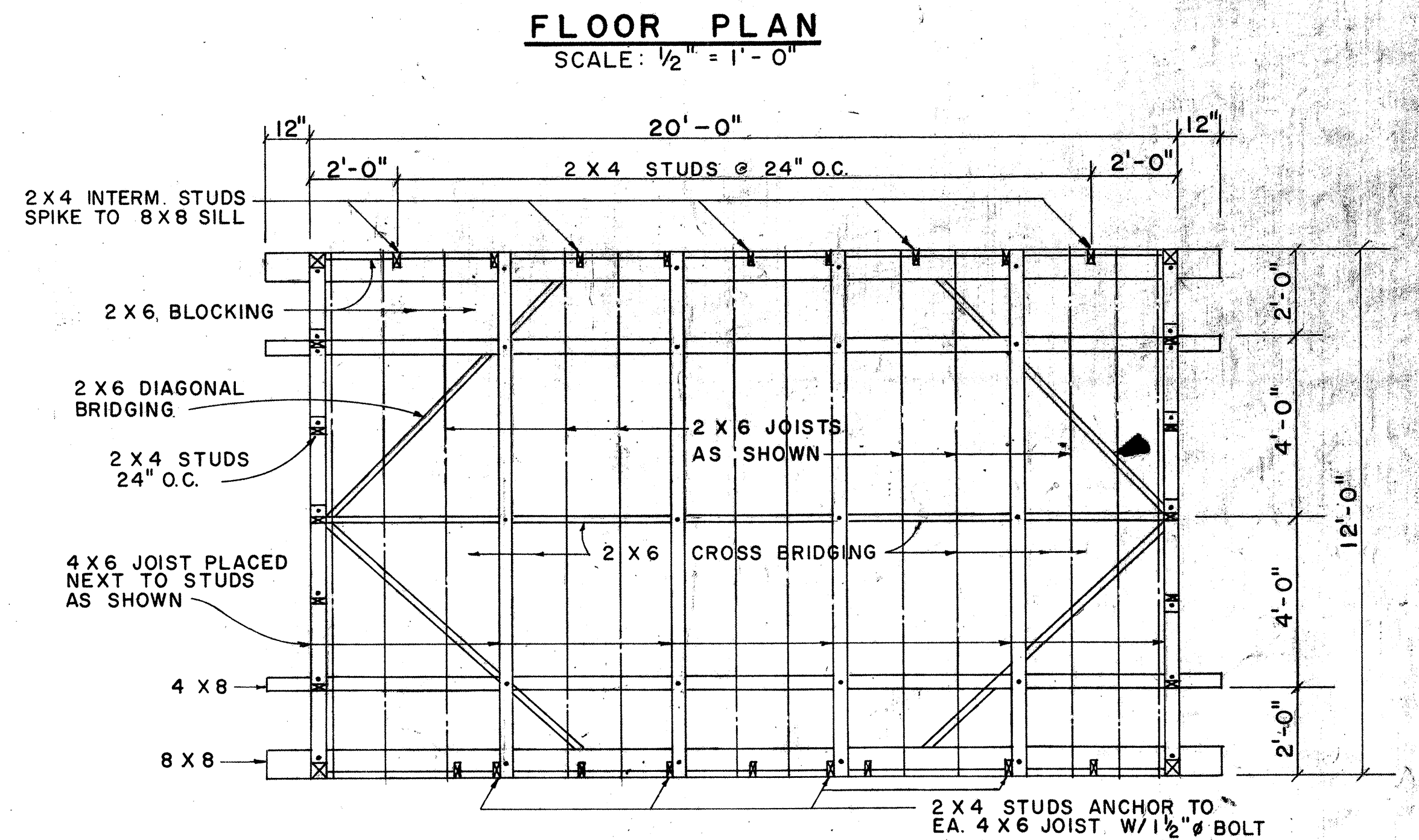
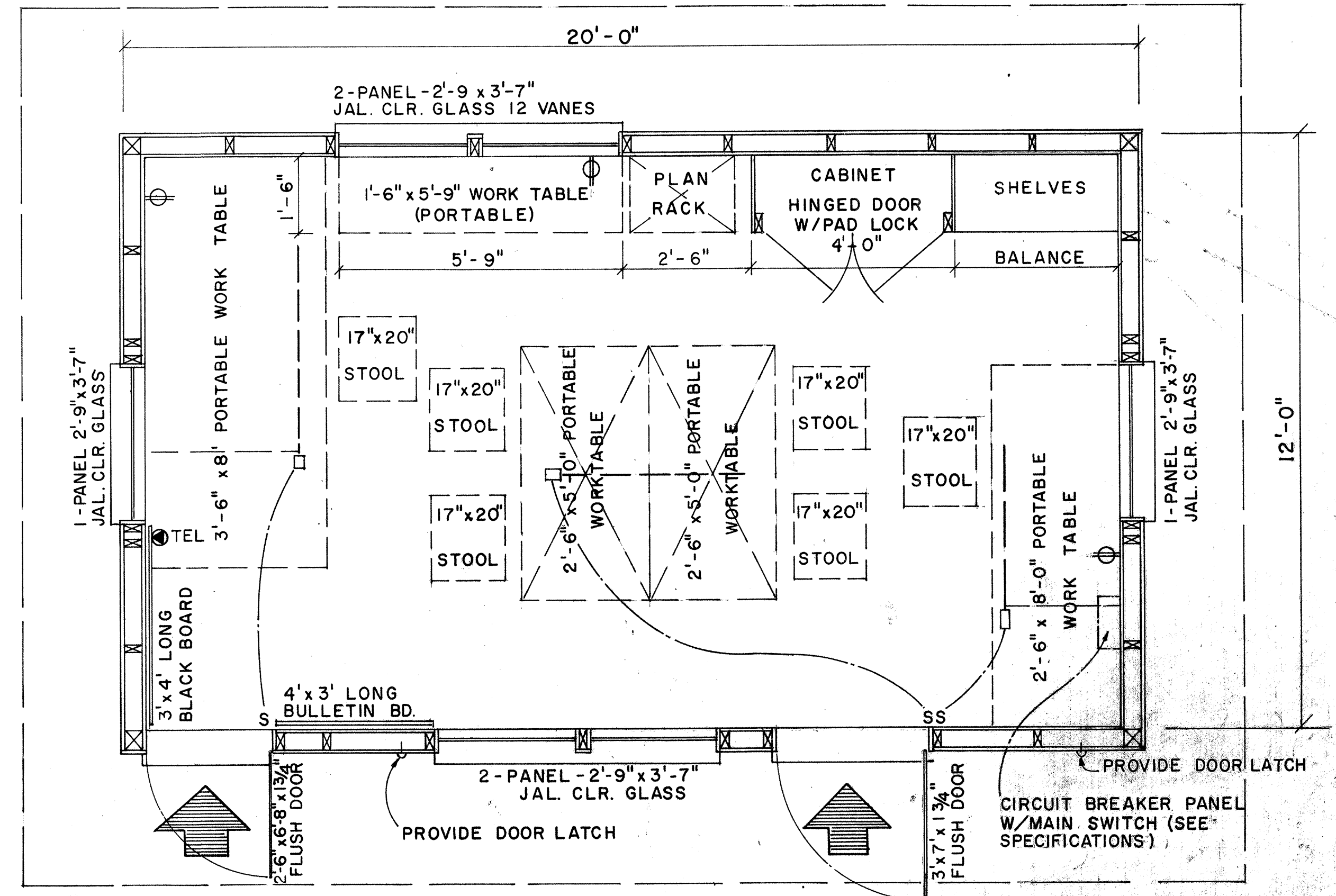
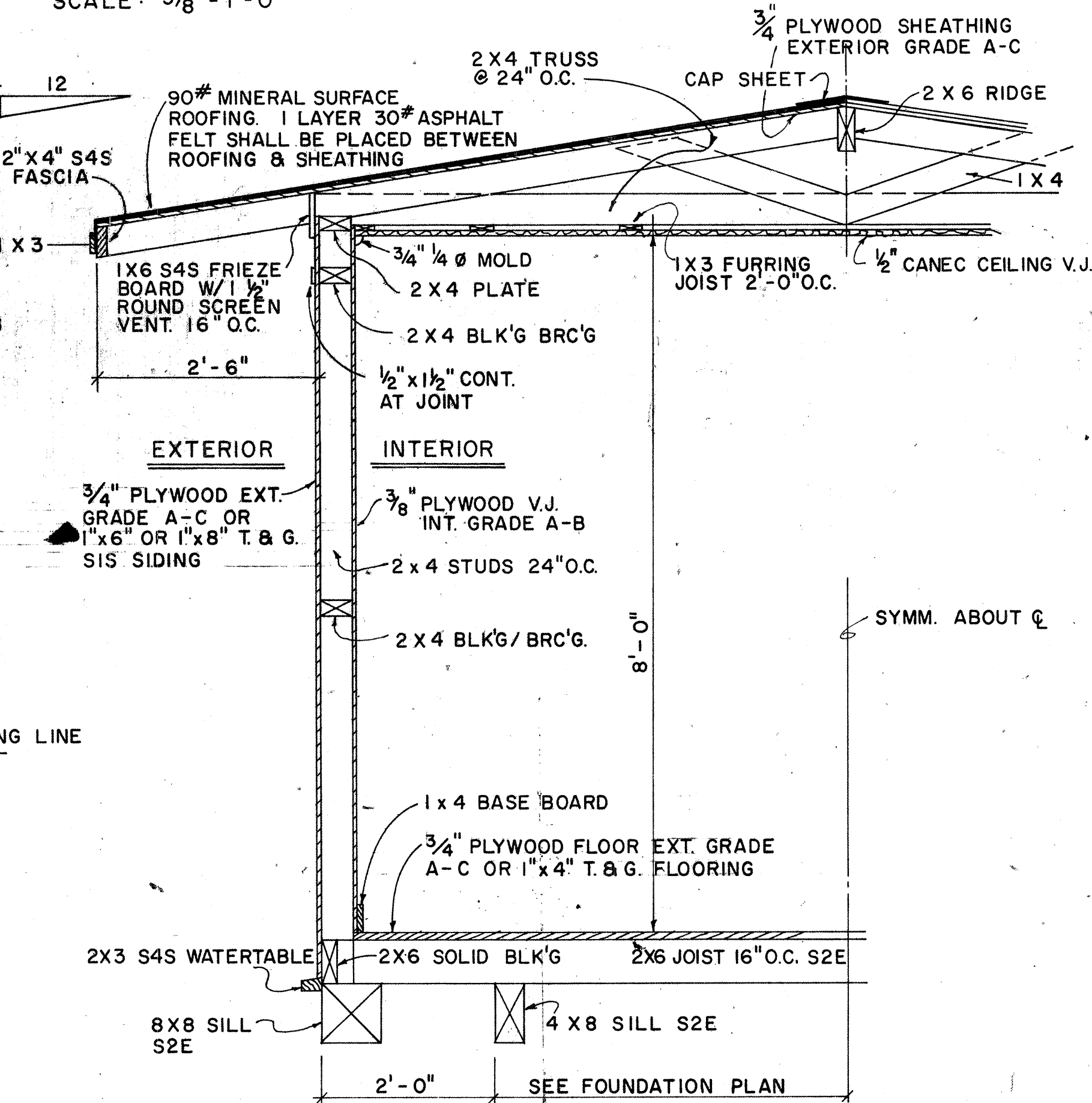
FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAWAII	I-13-(125)-3	1975	84	111



EXTERIOR & INTERIOR KEY



ROOF FRAMING PLAN



FOUNDATION FRAMING PLAN

NOTE:
FOR SIZE OF FIELD OFFICE FOR THIS PROJECT SEE SPECIFICATIONS.

APPROVAL RECOMMENDED:
HIGHWAY DESIGN ENGINEER
12-4-69
DATE

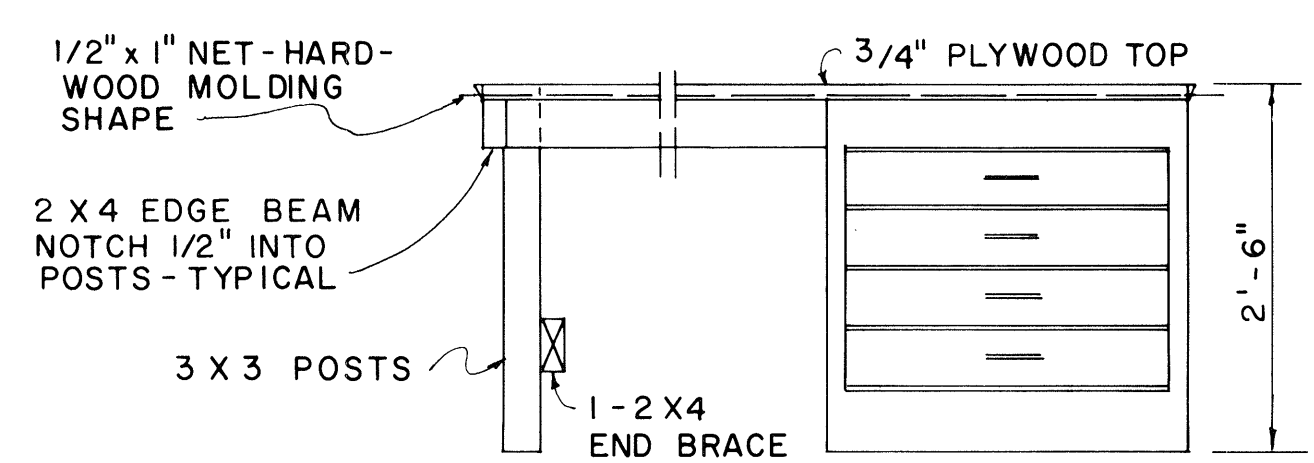
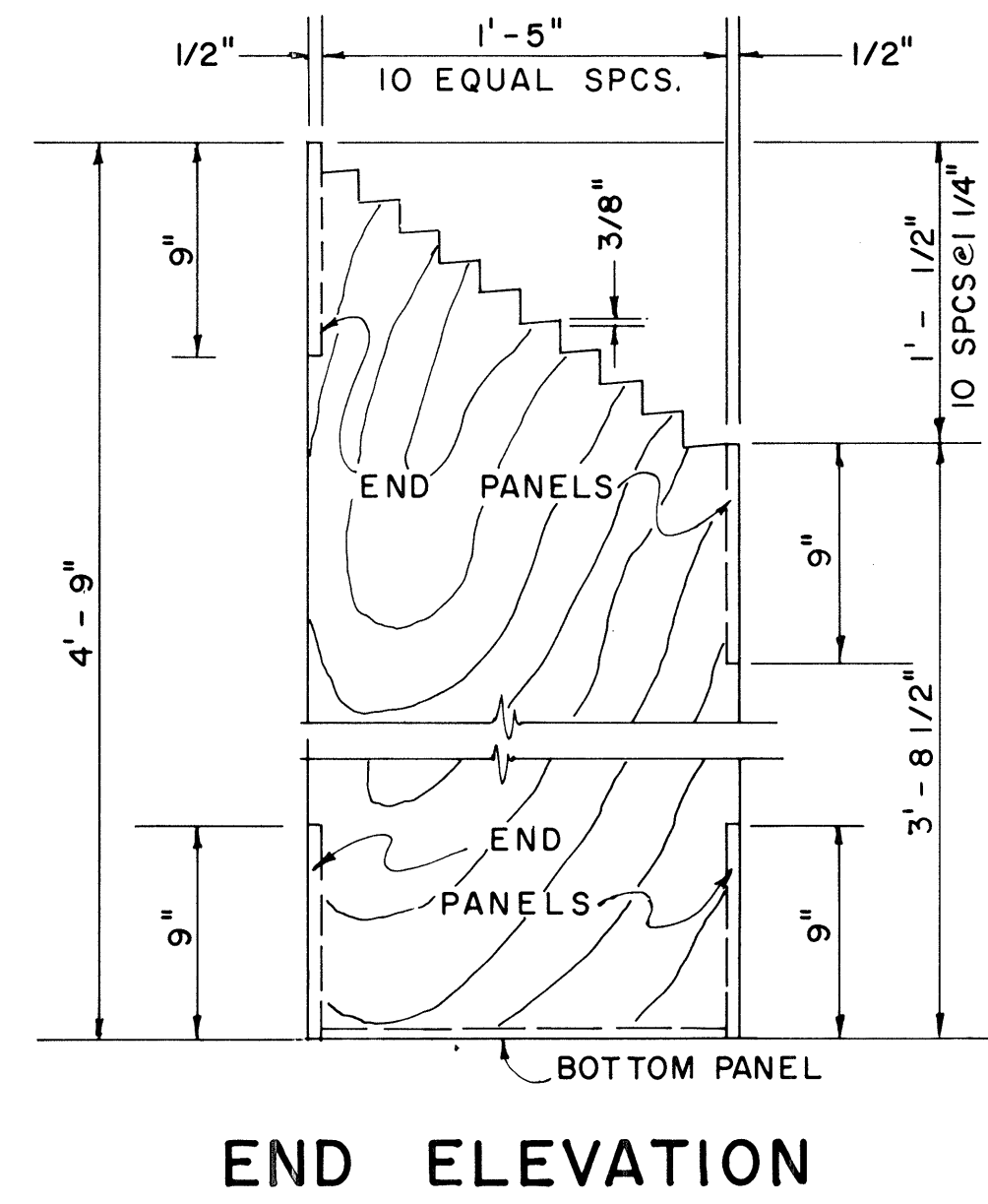
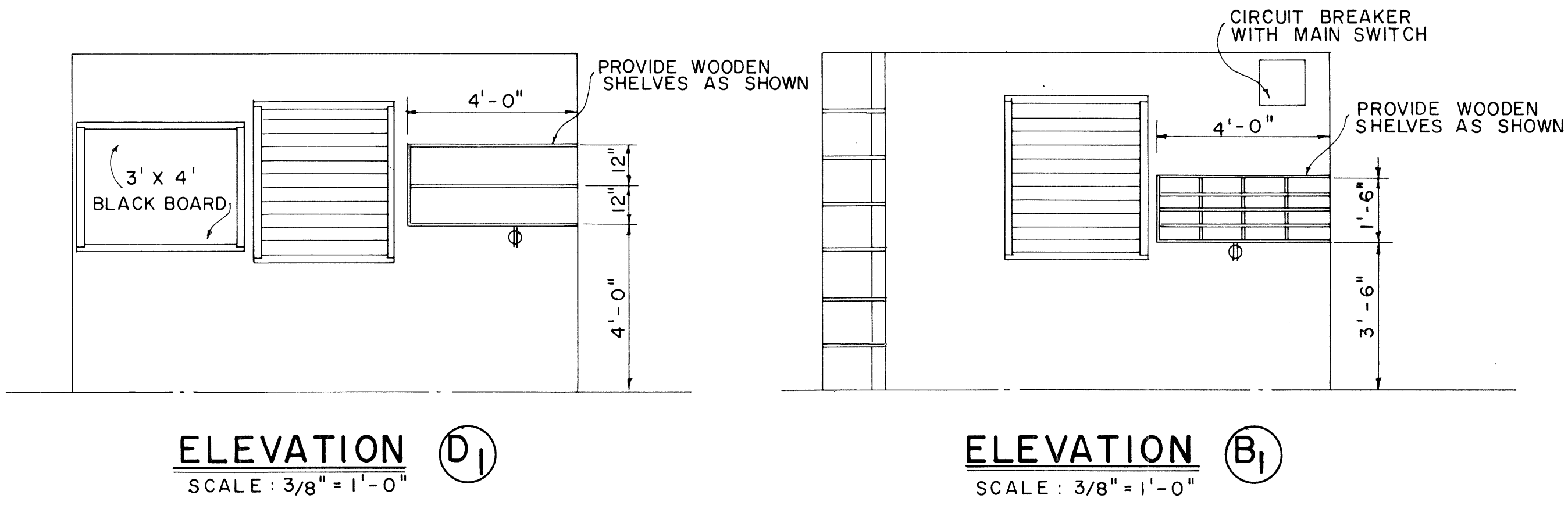
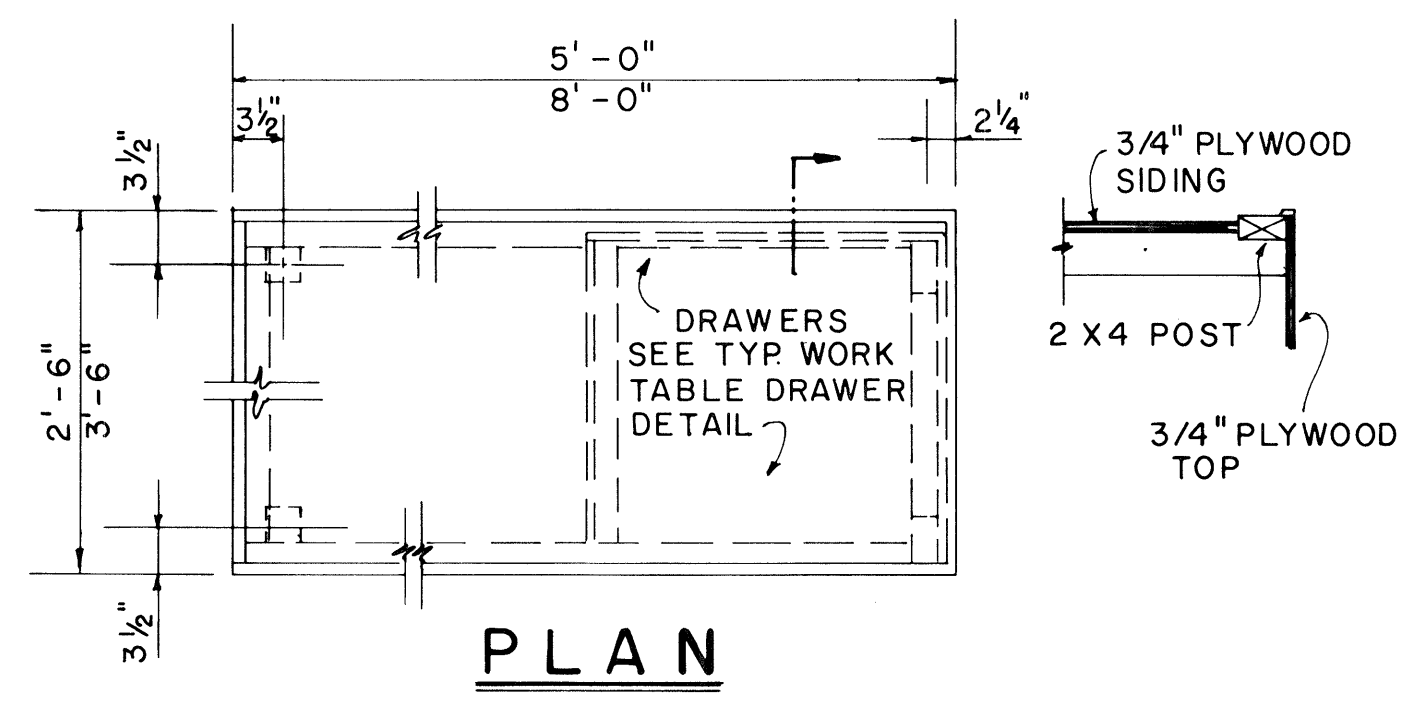
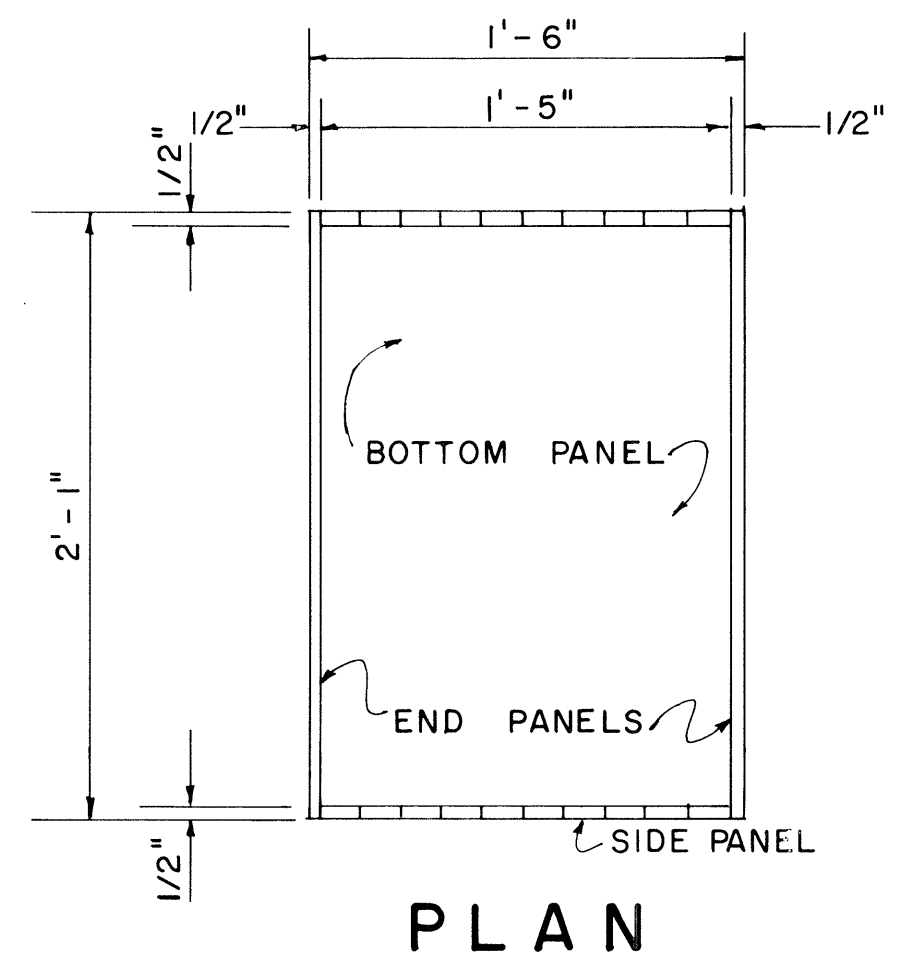
APPROVED:
ASSISTANT CHIEF, ENGINEERING
12-10-69
DATE

NO.	REVISION	APPROVED BY	DATE

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
FIELD OFFICE
Scale: As Noted
SHEET 84 OF 85 SHEETS DD 636-1

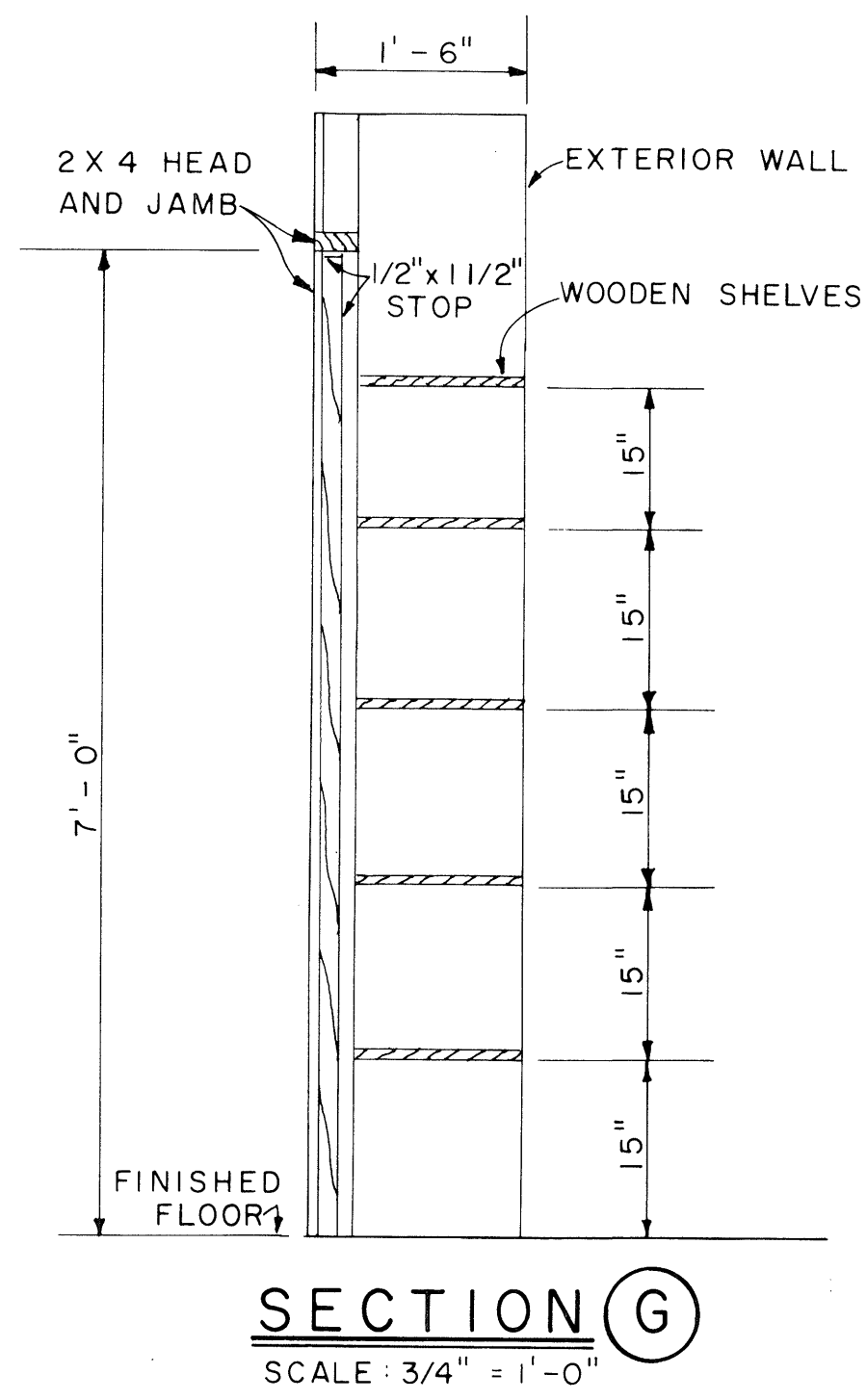
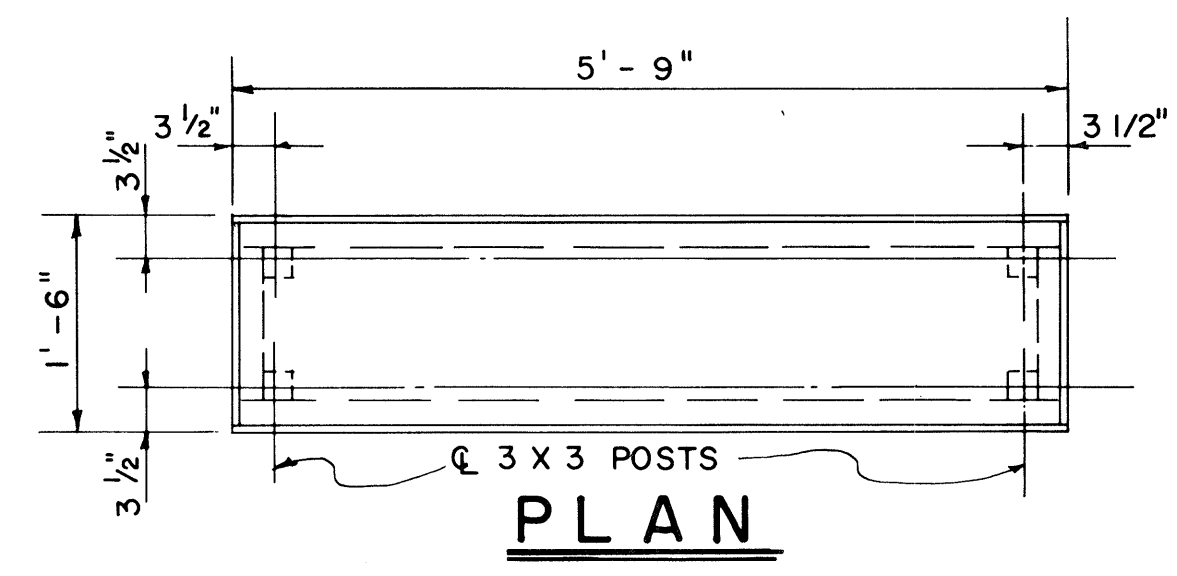
ORIGINAL PLAN
DATE
DRAWN BY
TRACED BY
NOTE BOOK
QUANTITIES BY
CHECKED BY
No.

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAWAII	I-H3-1(25)-3	1975	85	111



PORTABLE WORK TABLE DETAIL

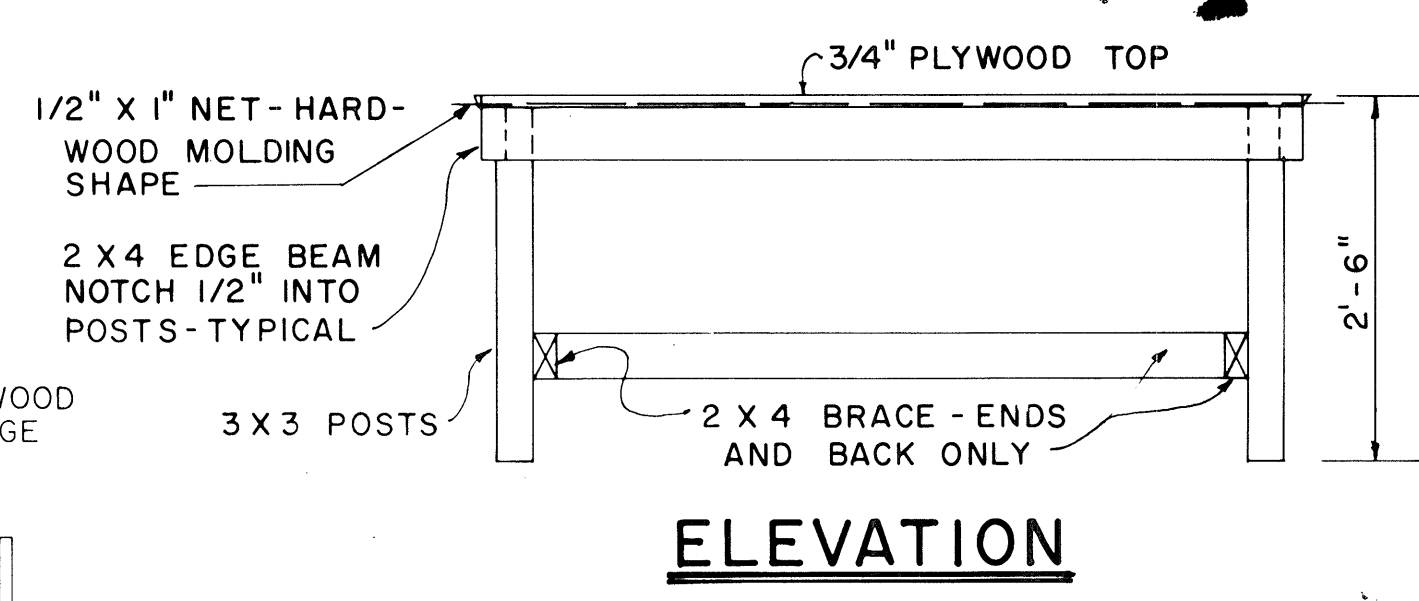
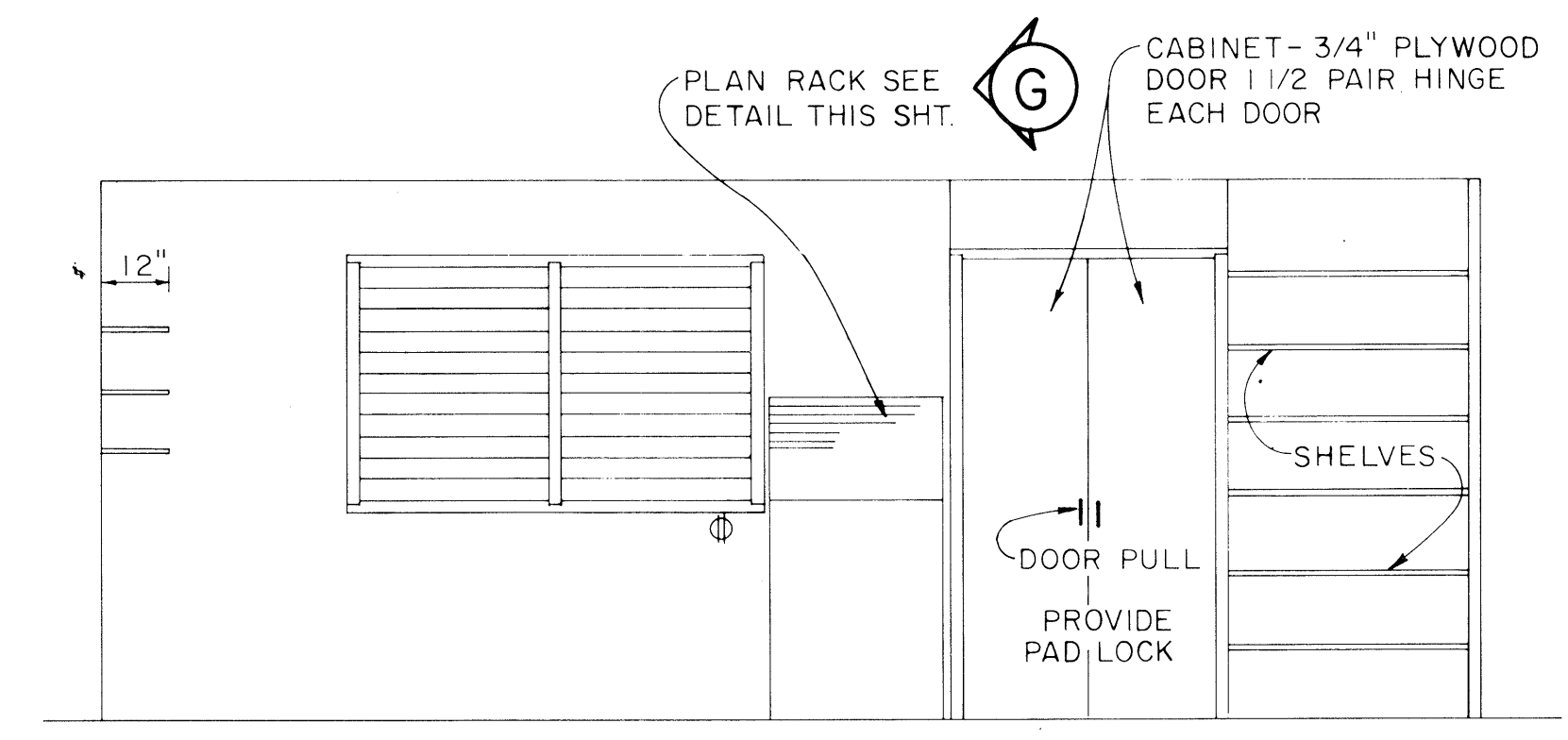
SCALE: 3/4" = 1'-0"



PLAN RACK DETAIL

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

(ONE REQUIRED)



1'-6" x 5'-9" PORTABLE WORK TABLE DETAIL

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

APPROVAL RECOMMENDED:
 HIGHWAY DESIGN ENGINEER
 DATE: 12-4-69

APPROVED:
 ASSISTANT CHIEF, ENGINEERING
 DATE: 12-10-69

NO.	REVISION	APPROVED BY	DATE

STATE OF HAWAII
 DEPARTMENT OF TRANSPORTATION
 HIGHWAYS DIVISION

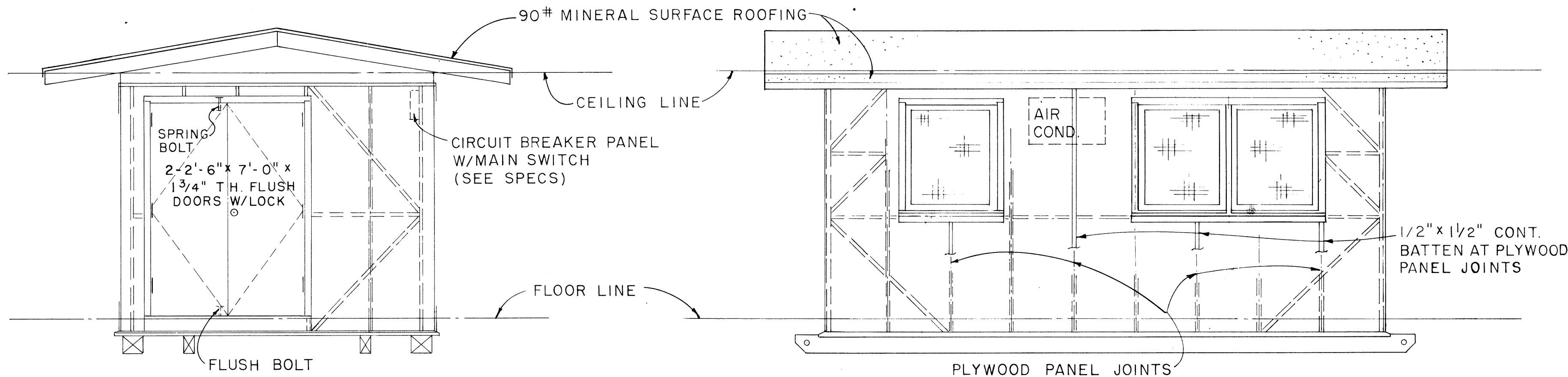
FIELD OFFICE

Scale: As Noted

SHEET No. 81 OF 86 SHEETS DD 636.2

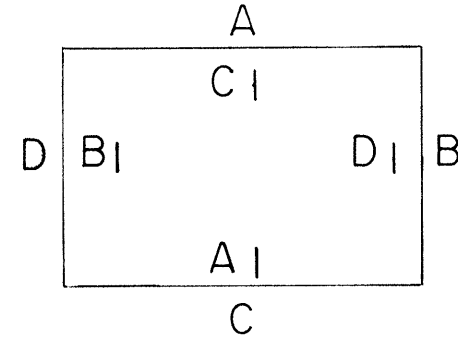
DATE	
SURVEY PLOTTED BY	
ORIGINAL PLAN	
DESIGNED BY	
NOTE BOOK	
CHECKED BY	
No.	

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	1-H3-1(25)-3	1975	86	111

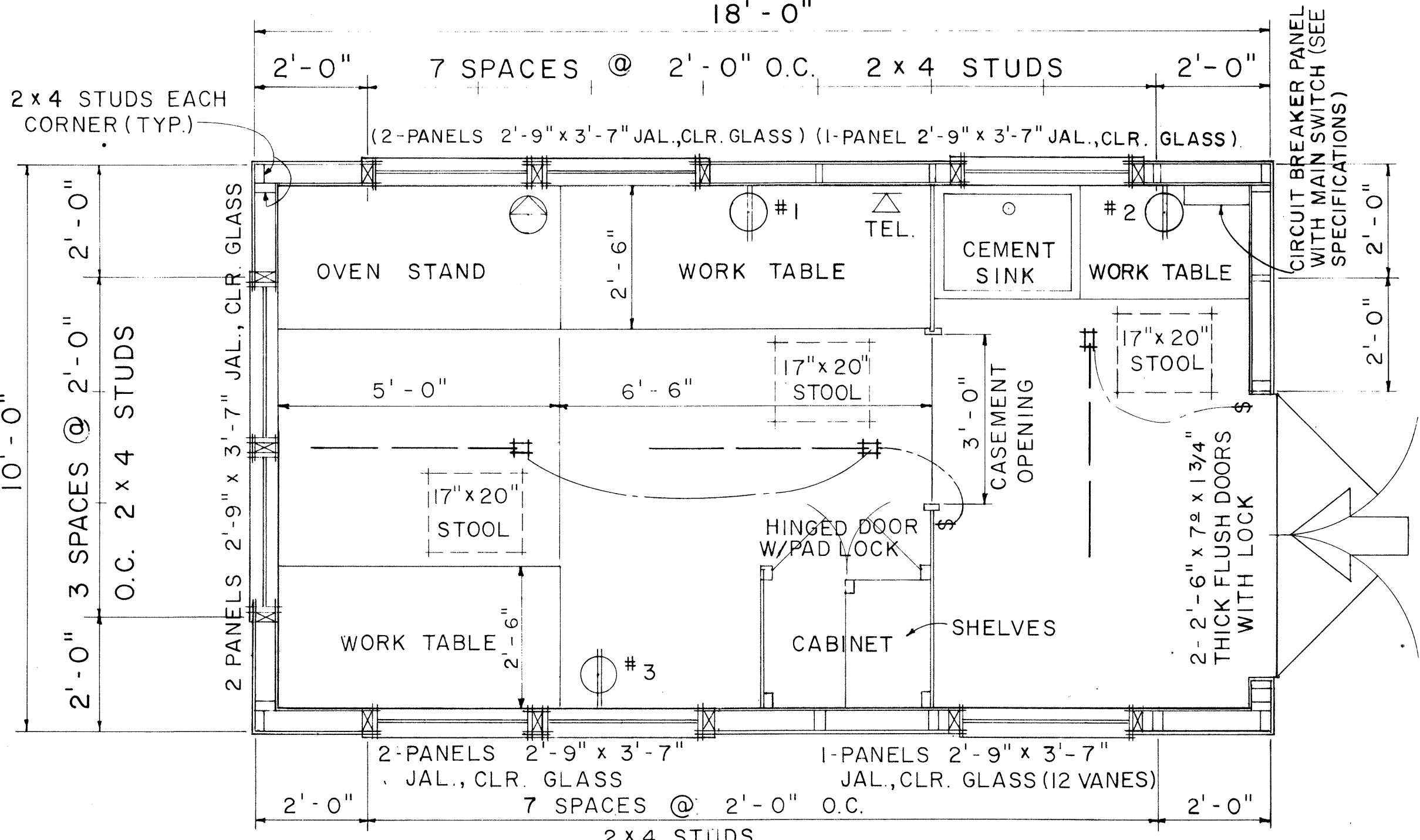


ELEVATION B
SCALE: 3/8" = 1'-0"

ELEVATION A
SCALE: 3/8" = 1'-0"

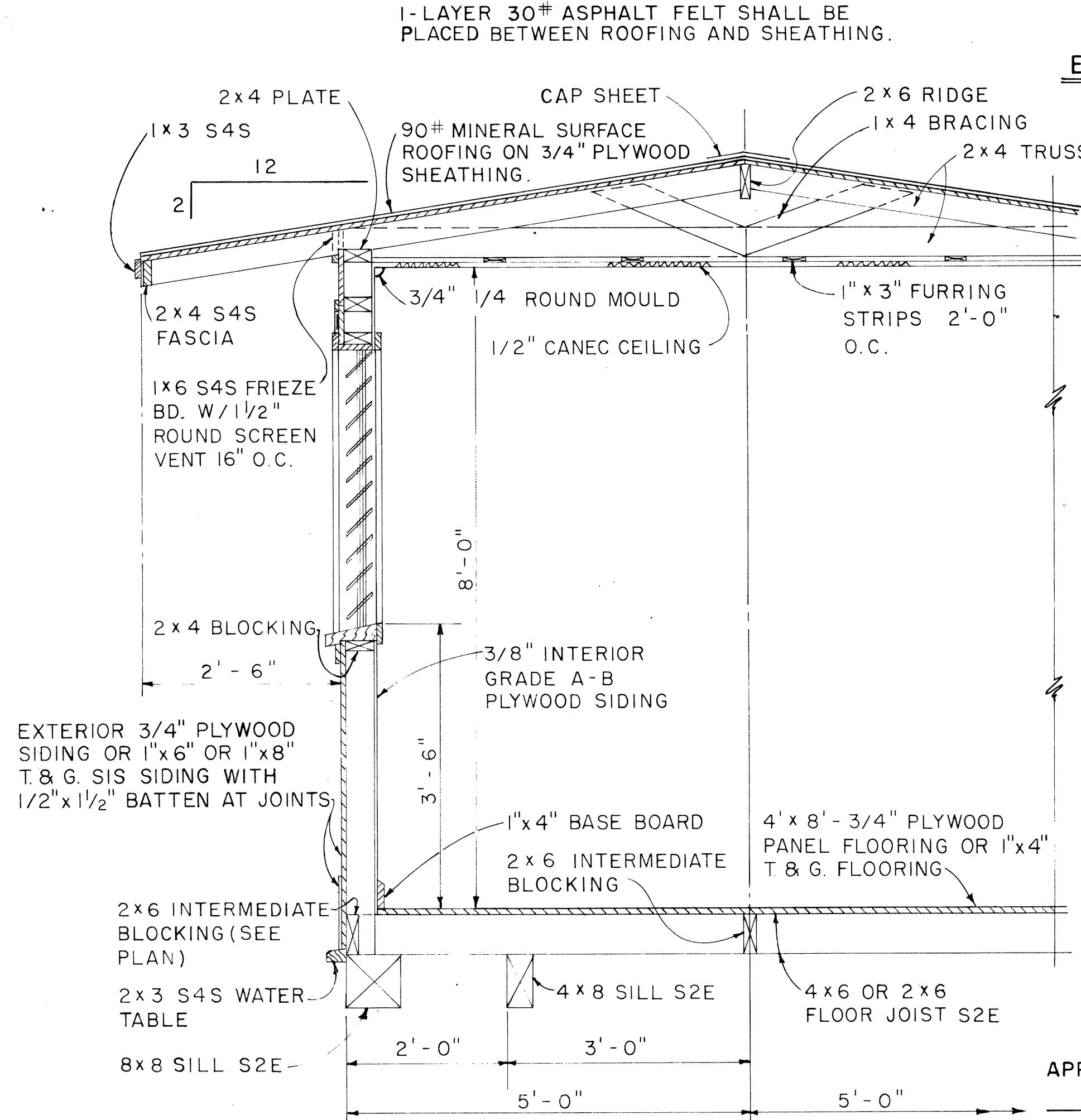


EXTERIOR & INTERIOR KEY



FLOOR PLAN
SCALE: 1/2" = 1'-0"

- NOTE:**
1. FLUORESCENT FIXTURE SHALL BE 48", 2 LAMP, 40 WATT, RAPID START.
 2. TELEPHONE AND WALL OUTLET 4'-0" ABOVE FLOOR.

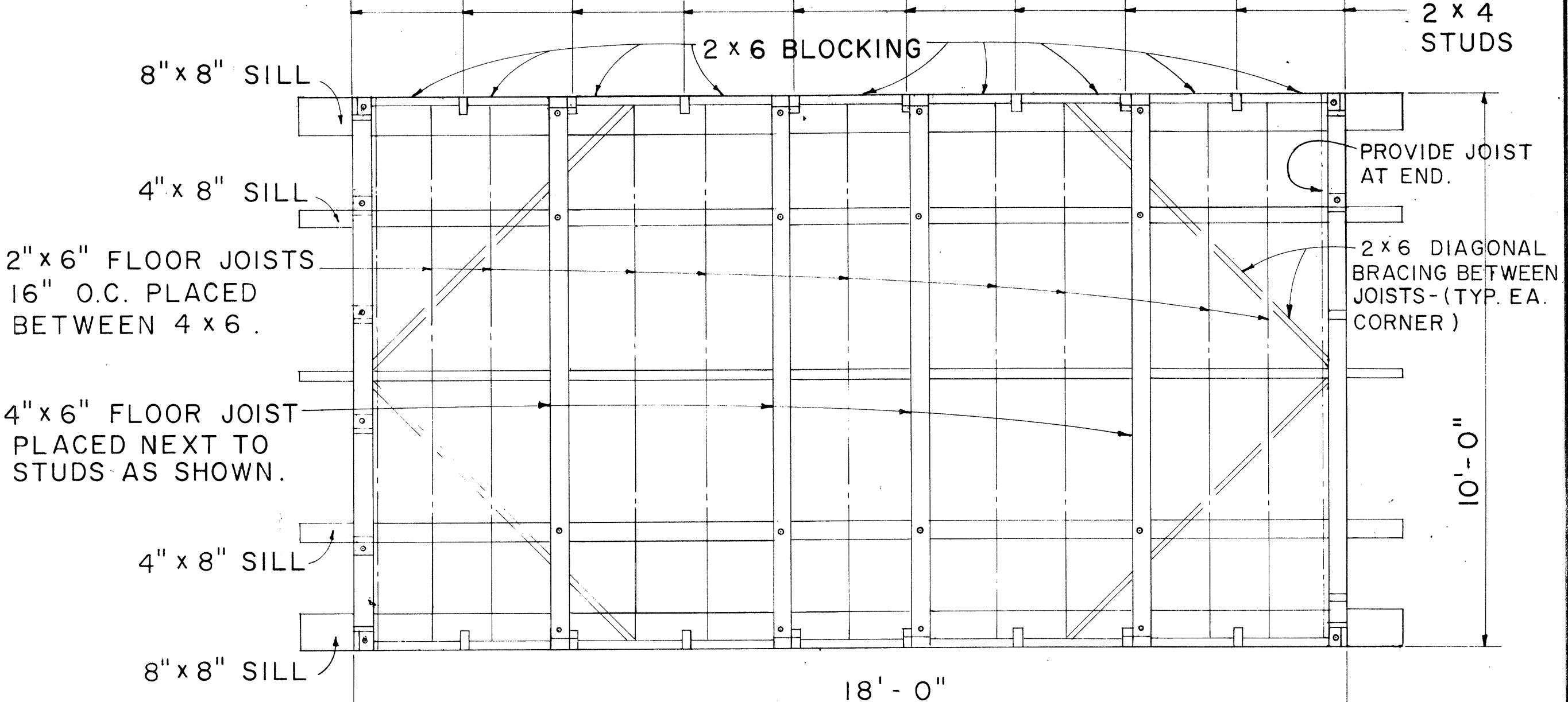


TYPICAL SECTION
SCALE: 3/4" = 1'-0"

NOTE:
ALL 3/4" PLYWOOD SHALL BE EXTERIOR GRADE A-C OR BETTER.

APPROVAL RECOMMENDED:
HIGHWAY DESIGN ENGINEER
DATE: 12-4-69

APPROVED:
ASSISTANT CHIEF, ENGINEERING
DATE: 12-10-69



FLOOR FRAMING PLAN
SCALE: 1/2" = 1'-0"

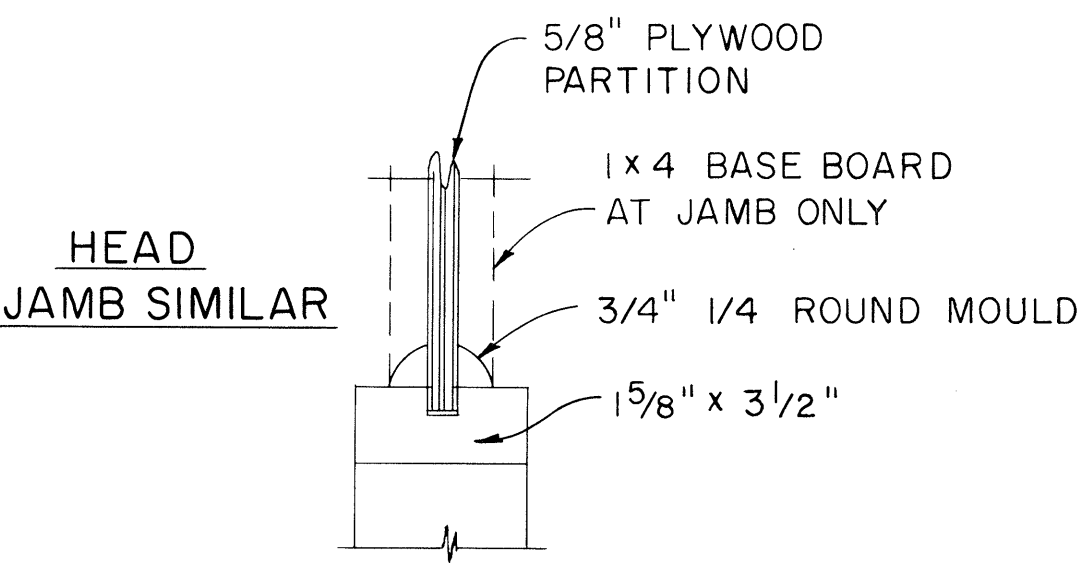
NO.	REVISION	APPROVED BY	DATE

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

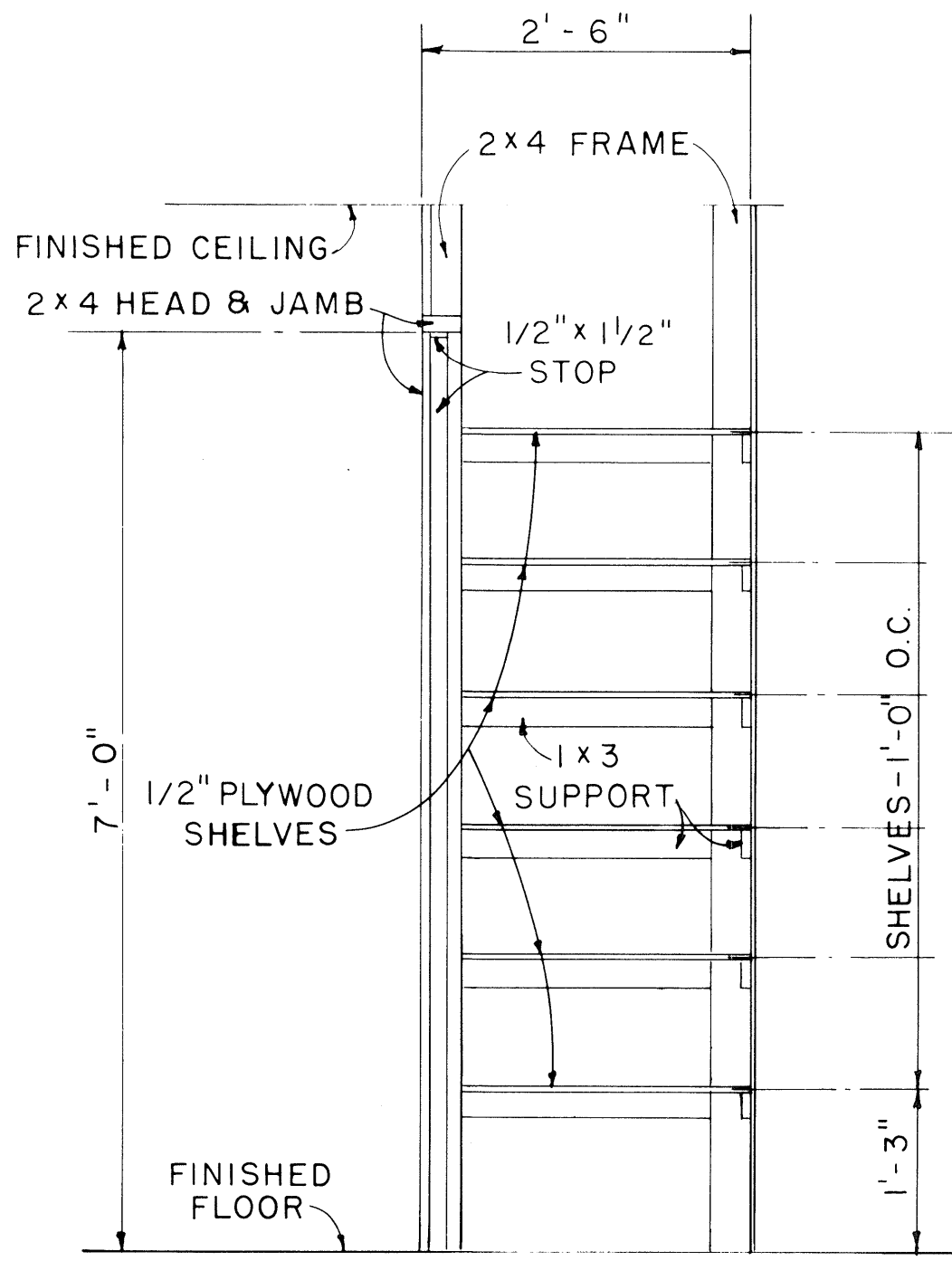
PROJECT SITE LABORATORY

Scale: As Noted

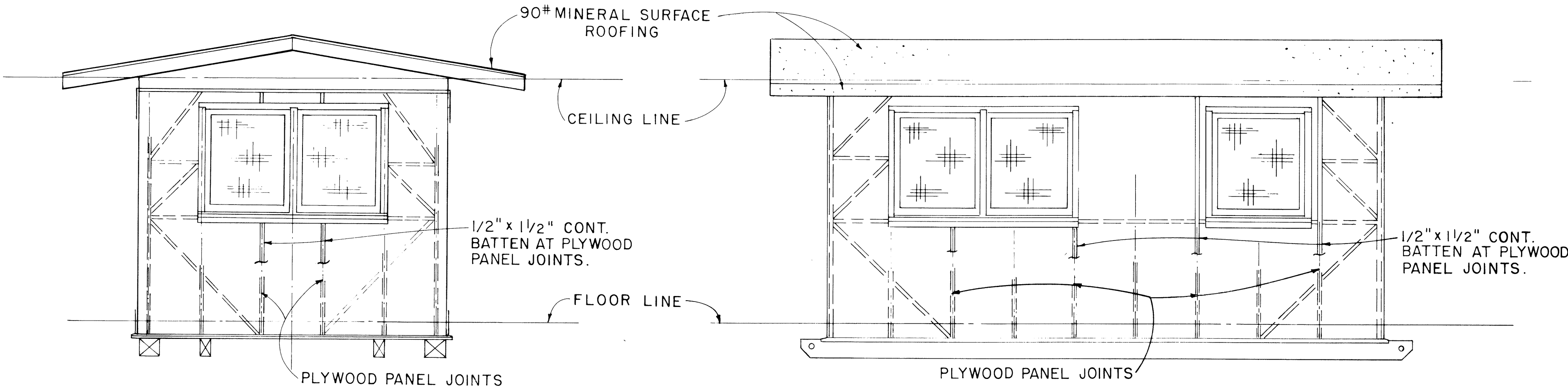
FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-43-1(25):3	1975	87	111



CASEMENT DETAIL
SCALE: 3" = 1'-0"

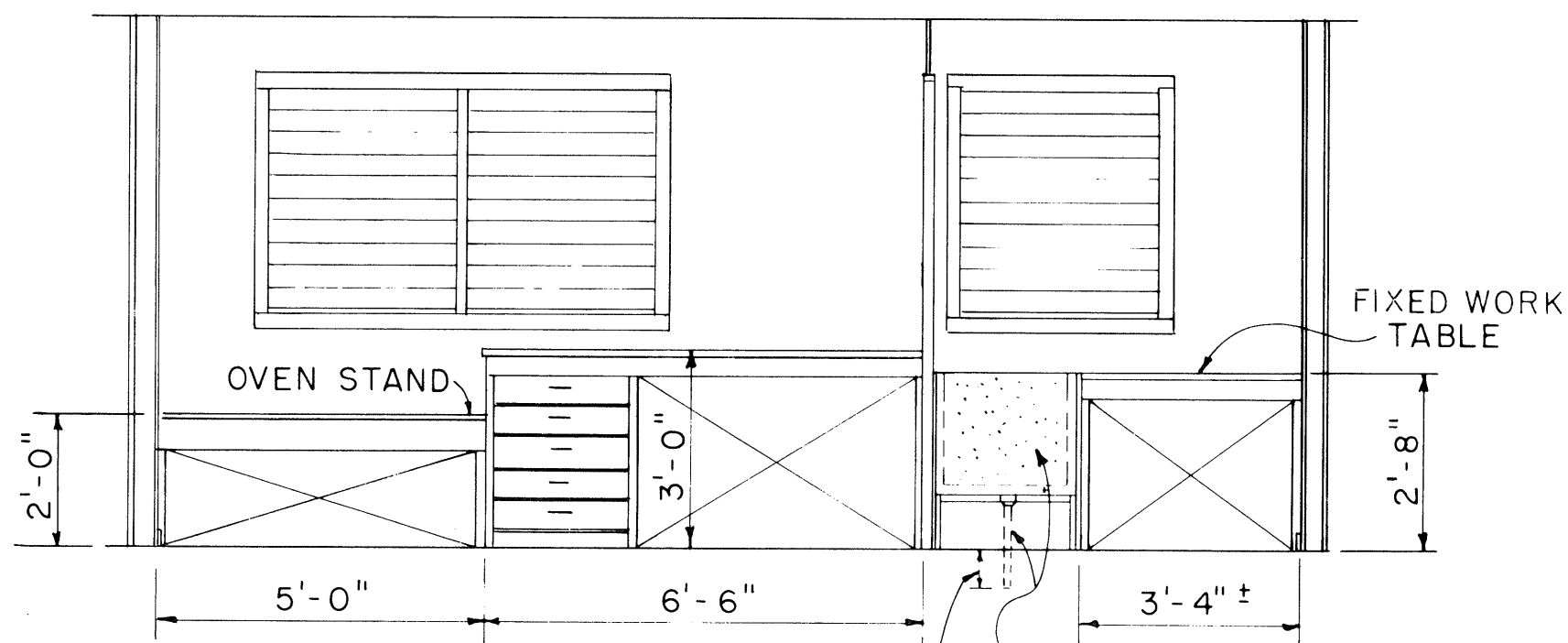


CABINET DETAIL
SCALE: 3/4" = 1'-0"

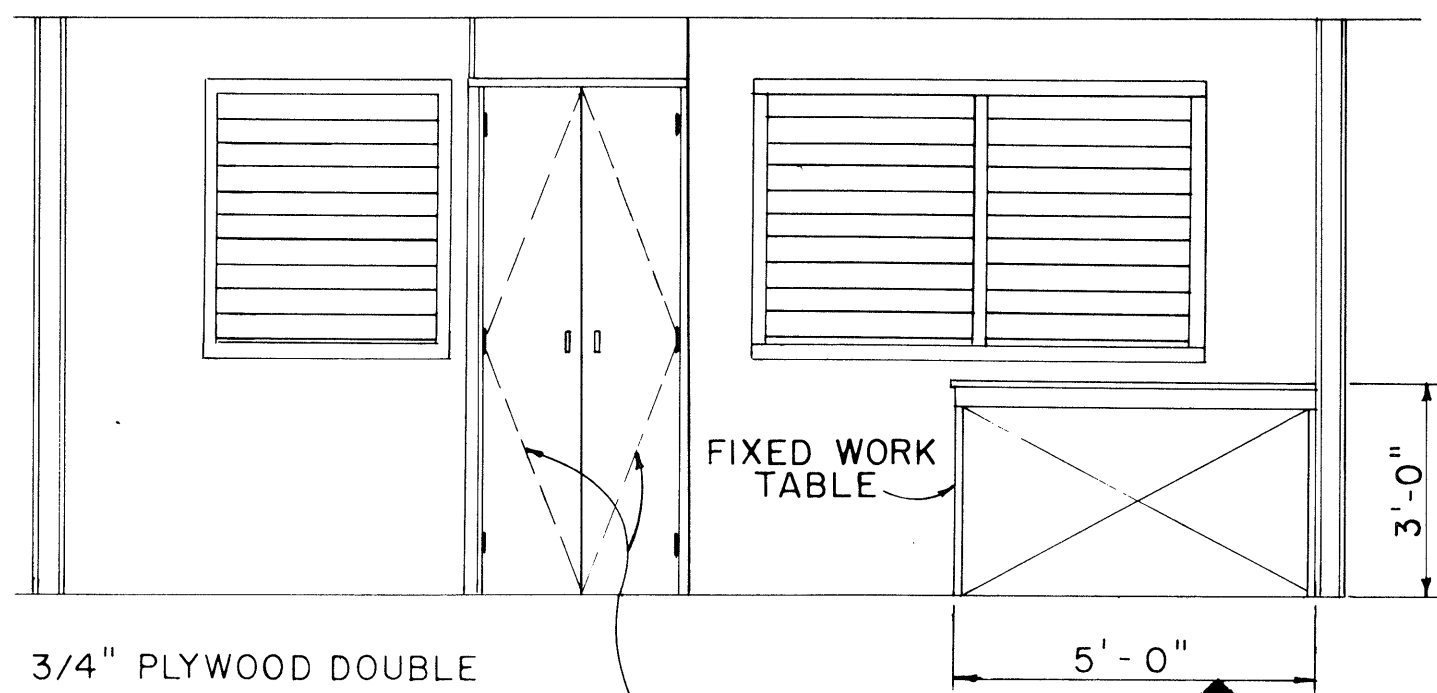


ELEVATION D
SCALE: 3/8" = 1'-0"

ELEVATION C
SCALE: 3/8" = 1'-0"



ELEVATION C1
SCALE: 3/8" = 1'-0"



ELEVATION A1
SCALE: 3/8" = 1'-0"

APPROVAL RECOMMENDED:
[Signature] 12-4-69
HIGHWAY DESIGN ENGINEER DATE

APPROVED:
[Signature] 12-10-69
ASSISTANT CHIEF, ENGINEERING DATE

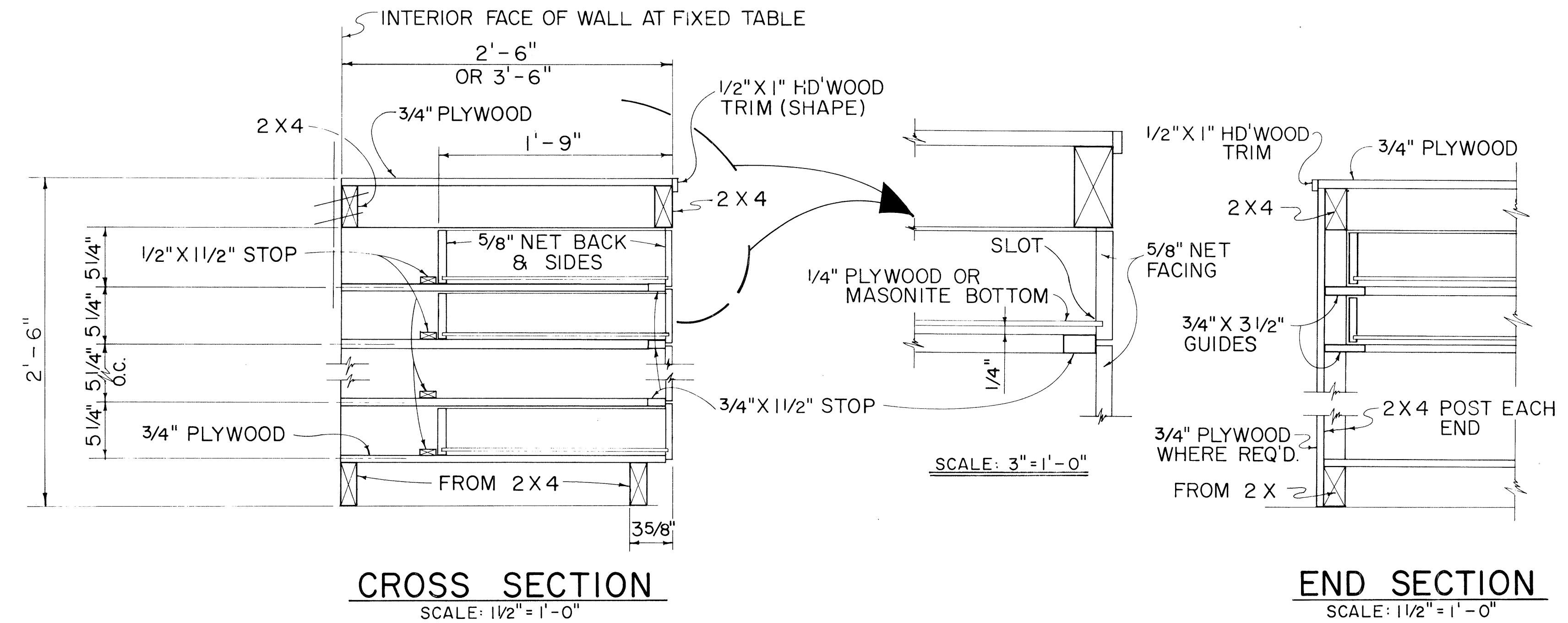
NO.	REVISION	APPROVED BY	DATE

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

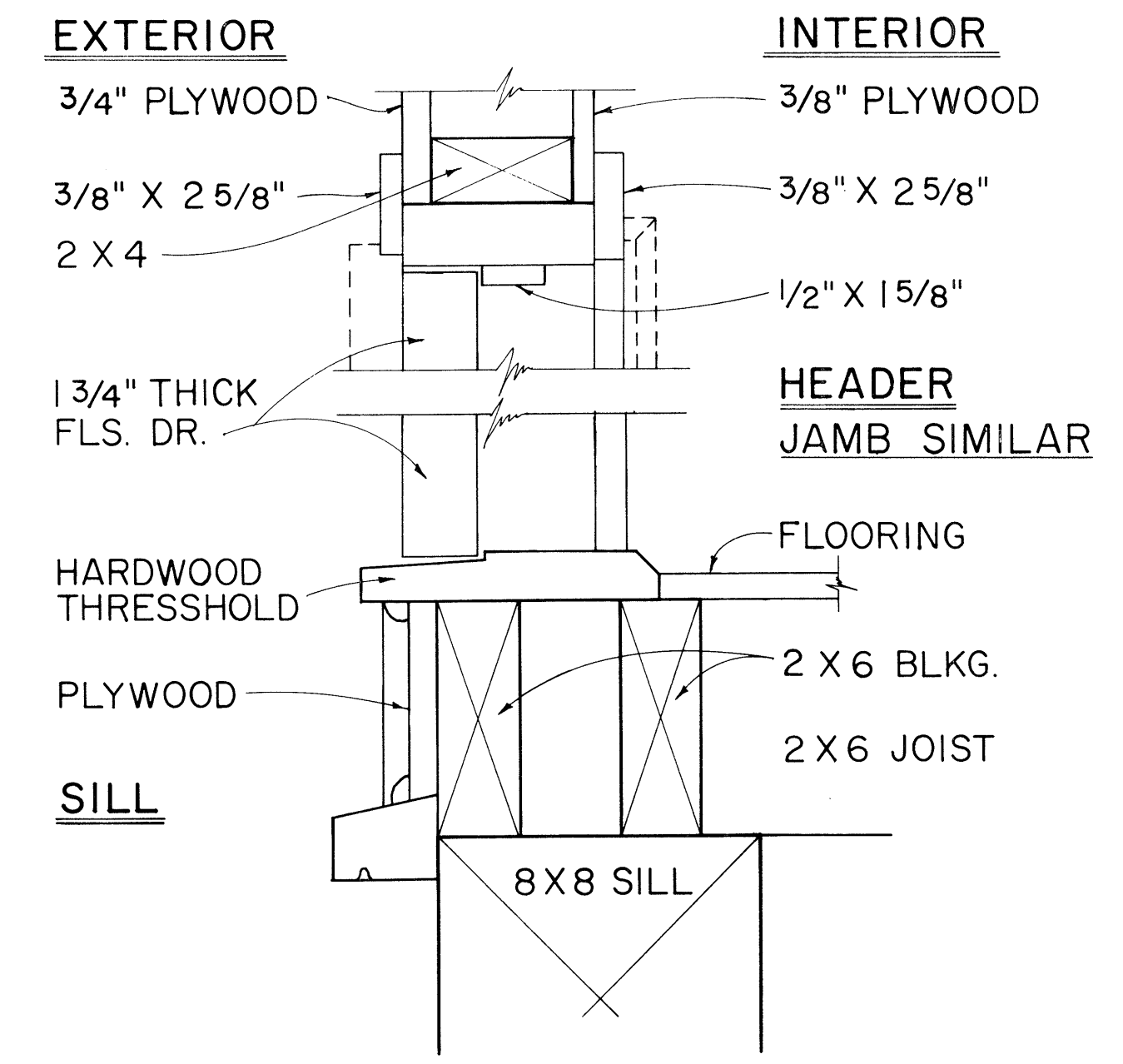
PROJECT SITE LABORATORY

Scale: As Noted

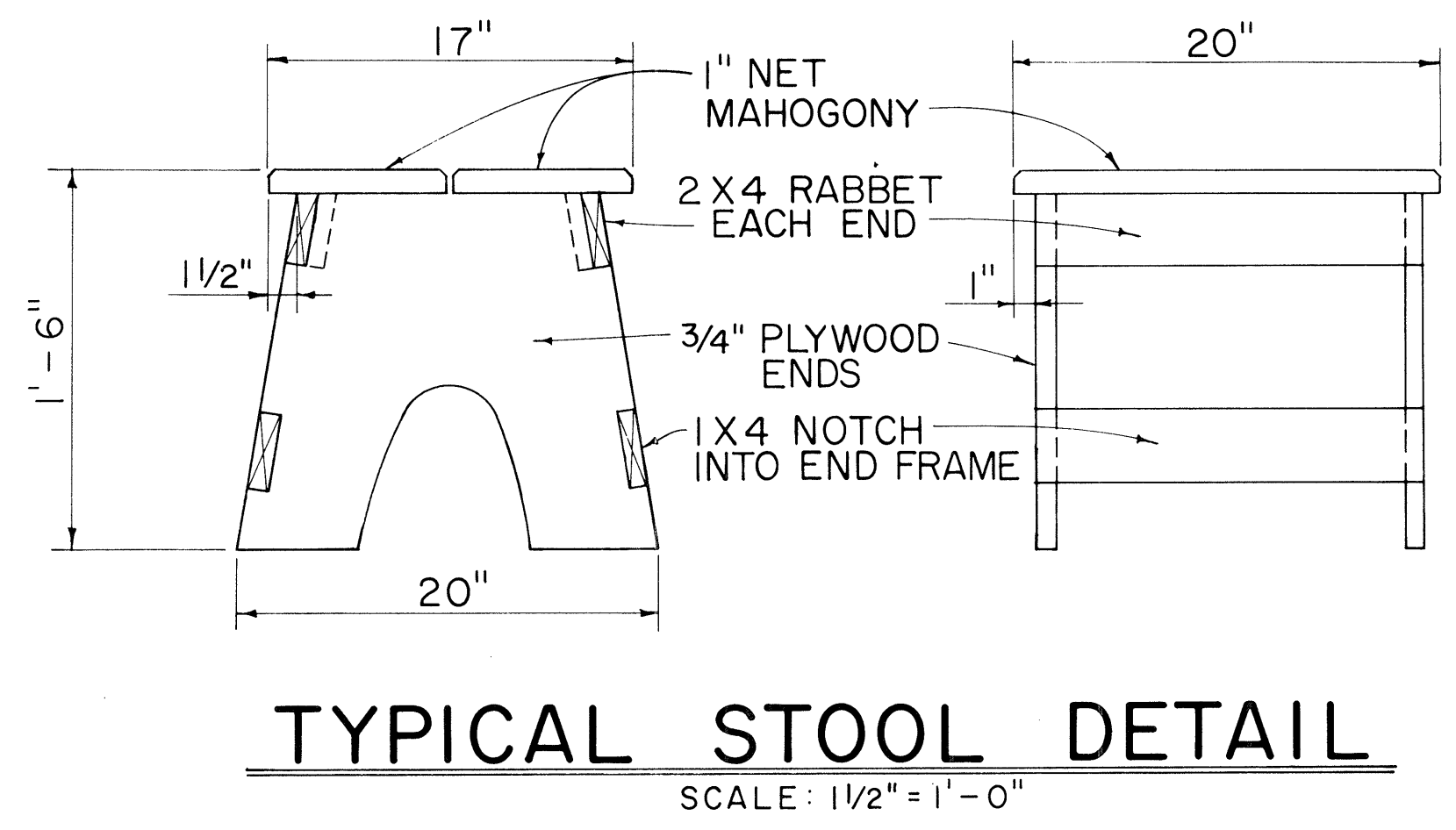
FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAWAII	I-H3-1(25)-3	1975	88	111



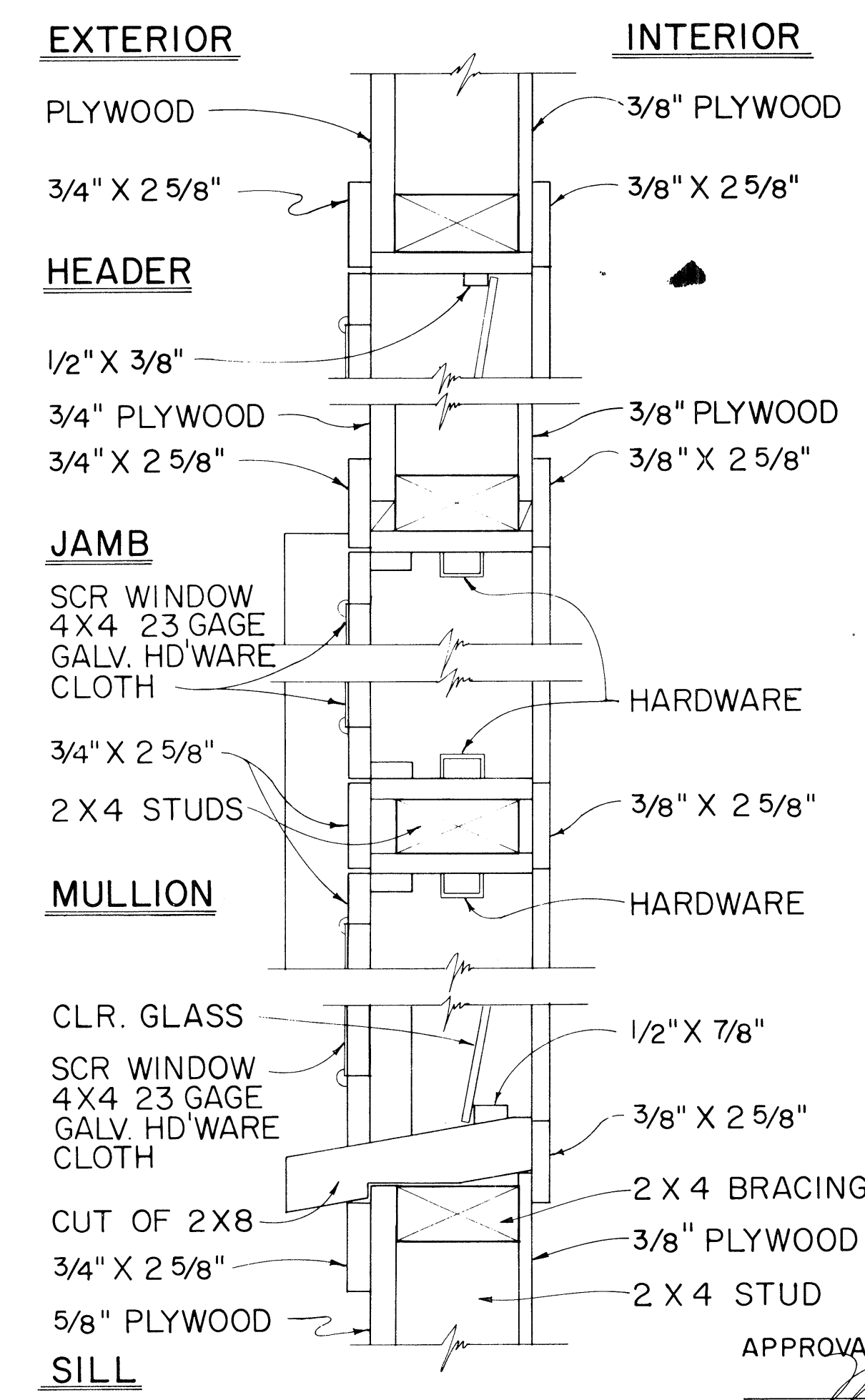
TYPICAL WORK TABLE DRAWER DETAIL



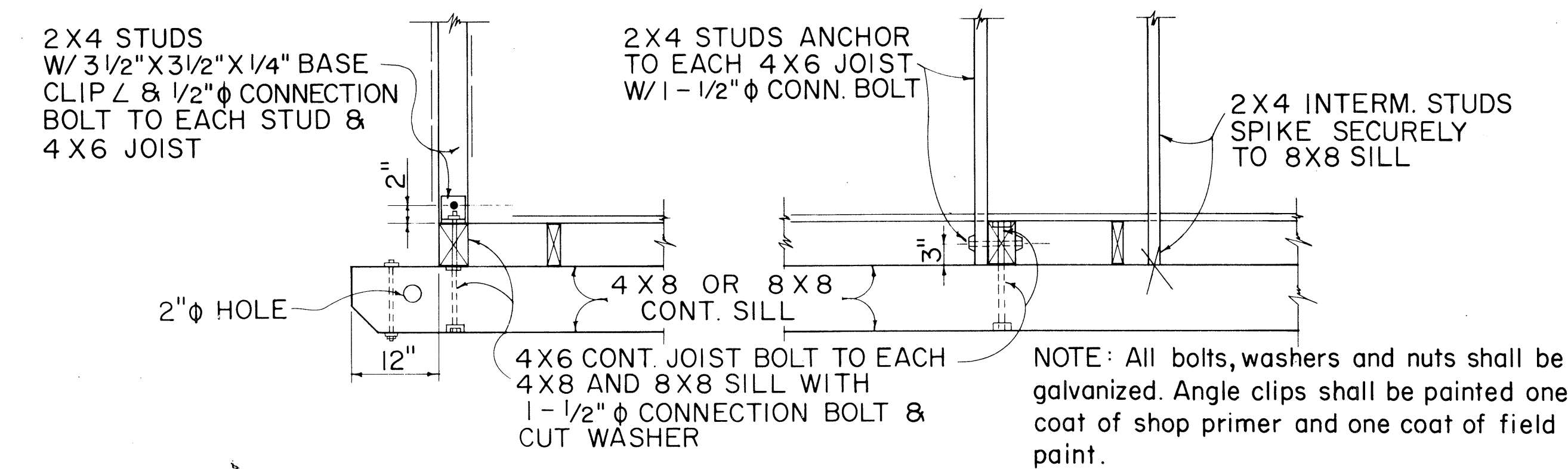
TYP. SWING OUT DOOR
TYPICAL SINGLE OR DOUBLE EXTERIOR DOOR DETAIL



NOTE: CONTRACTOR MAY WITH THE APPROVAL OF THE ENGINEER FURNISH THE FIELD OFFICE OR PROJECT SITE LABORATORY WITH STOOLS OTHER THAN THE TYPE SHOWN IN THE DETAIL.



TYPICAL DETAIL JALOUSIES WINDOWS



TYPICAL 2X4 STUD & 4X6 FLOOR JOIST BASE CONNECTION DETAILS

APPROVAL RECOMMENDED:
M. H. H. H.
HIGHWAY DESIGN ENGINEER
DATE 12-4-69

APPROVED:
A. J. J. J.
ASSISTANT CHIEF, ENGINEERING
DATE 12-10-59

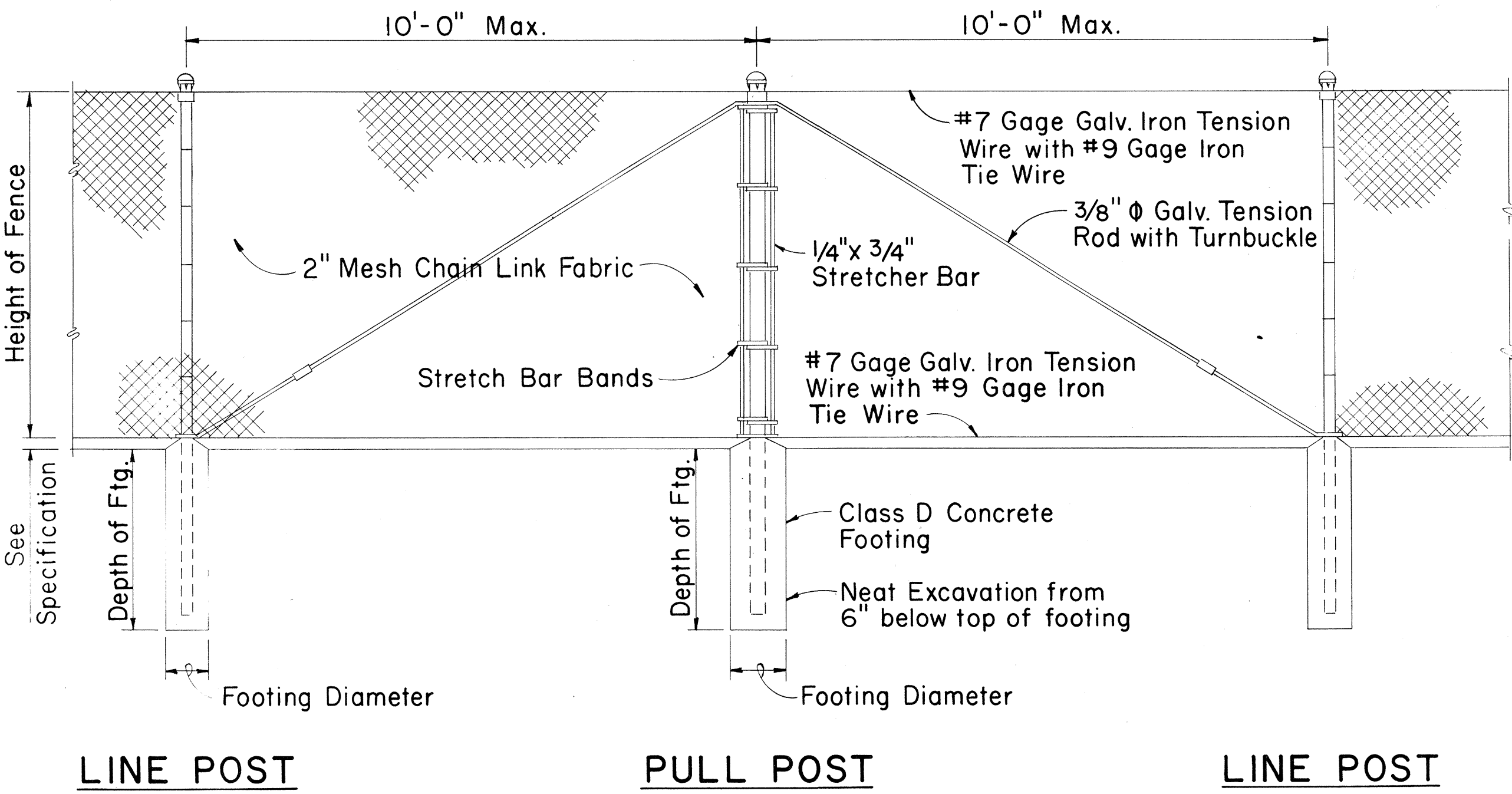
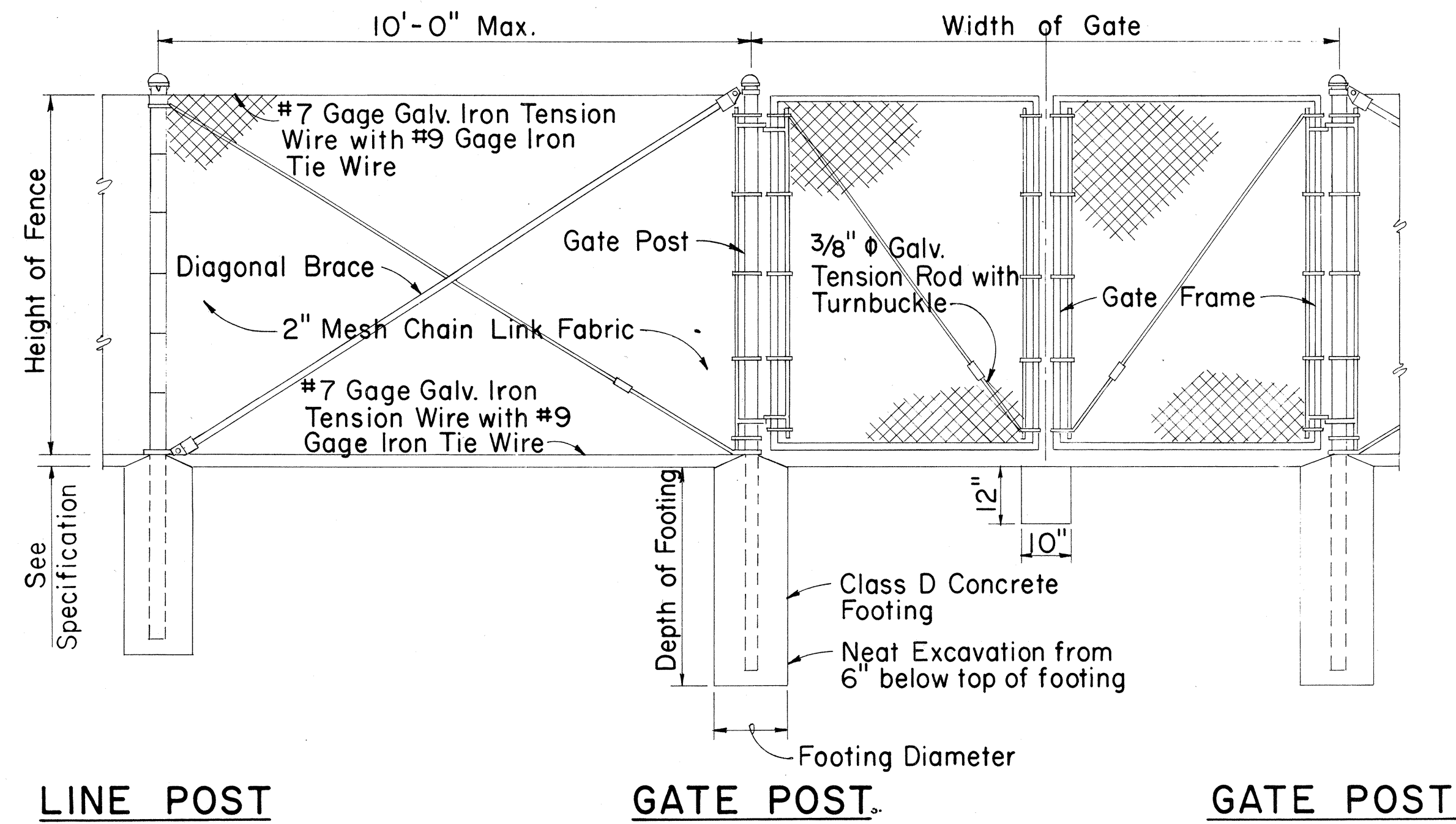
NO.	REVISION	APPROVED BY	DATE

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

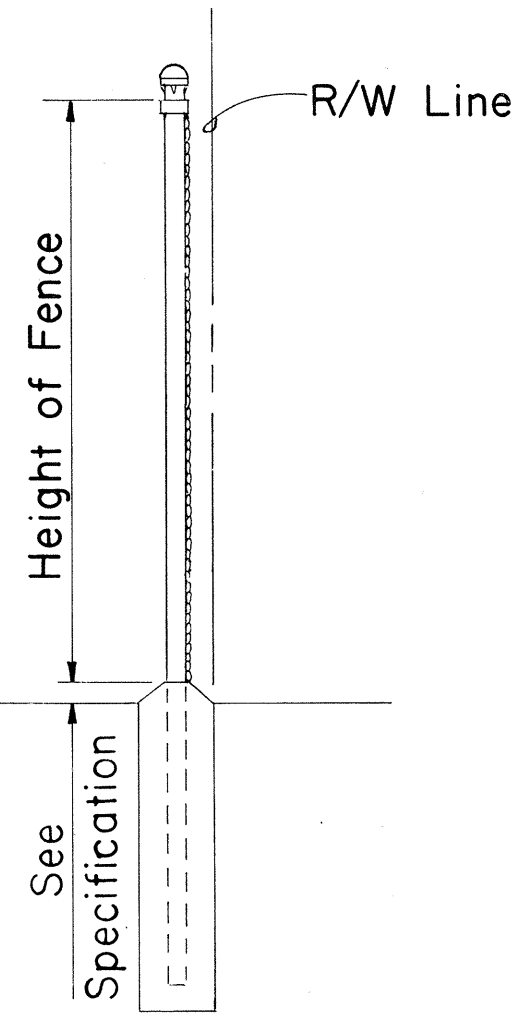
FIELD OFFICE
&
PROJECT SITE LABORATORY

Scale: As Noted

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-H3-1(25)-3	1975	89	111

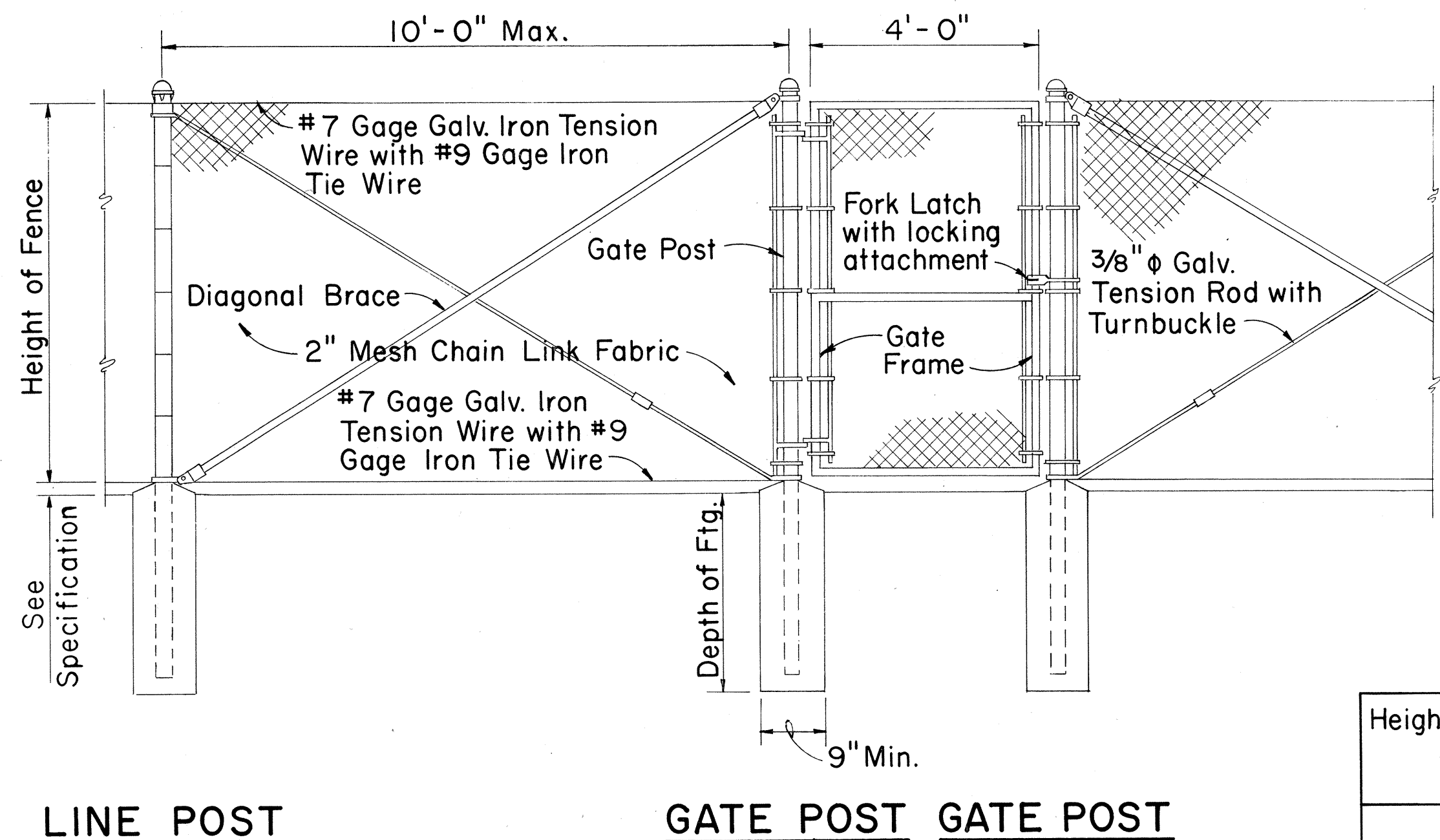


TYPICAL SECTION (WITH CONCRETE FOOTING)

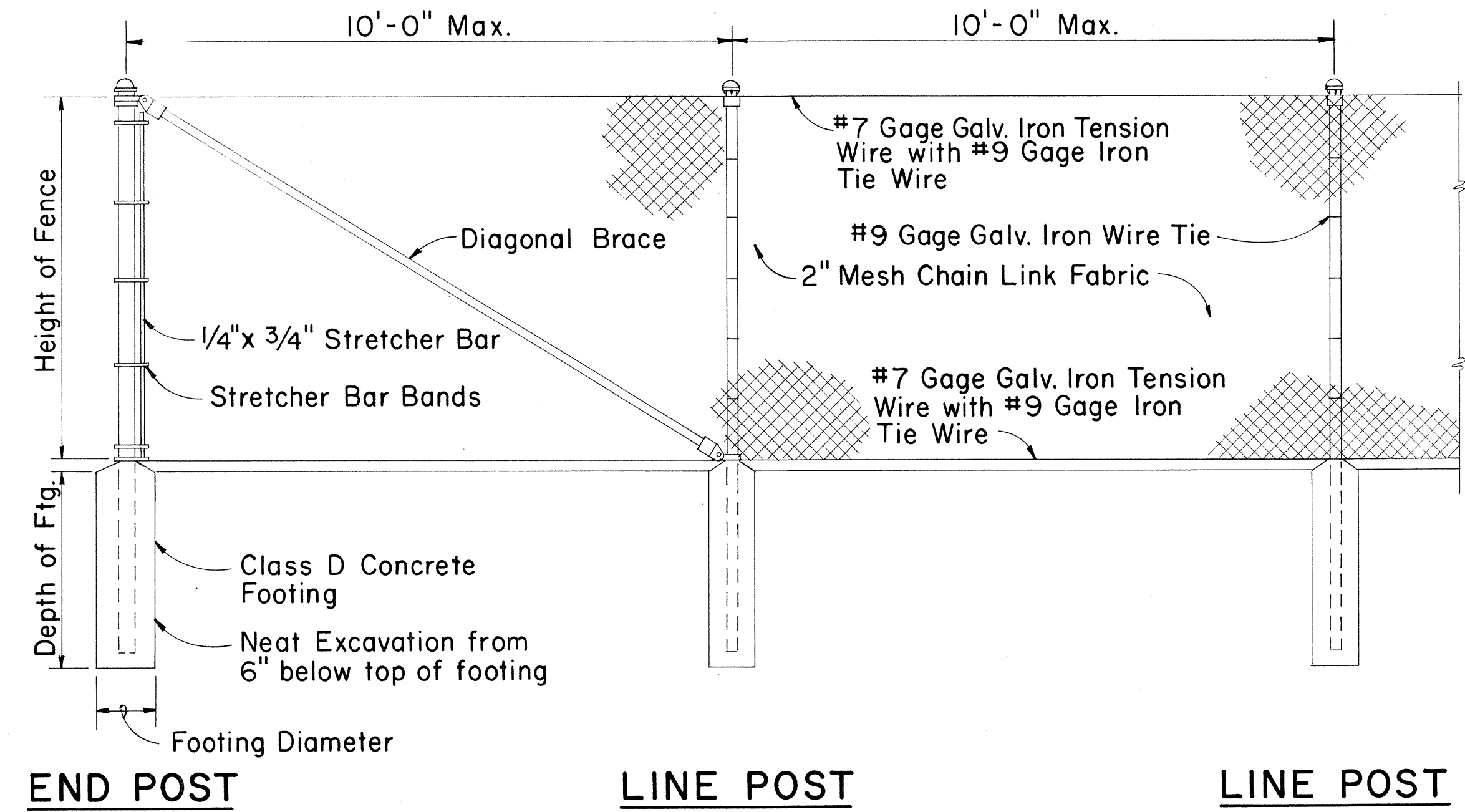


DETAIL OF CHAIN LINK GATE

- NOTE: 1. Gate fork latch and lock, flush plate and anchor, and plunger shall be installed with Gates, and shall be considered as incidental to Chain Link Fence Gate.
2. Gate frames shall be mitered and welded at corners.
3. Fence detail not shown shall be in accordance with the Standard Specifications.



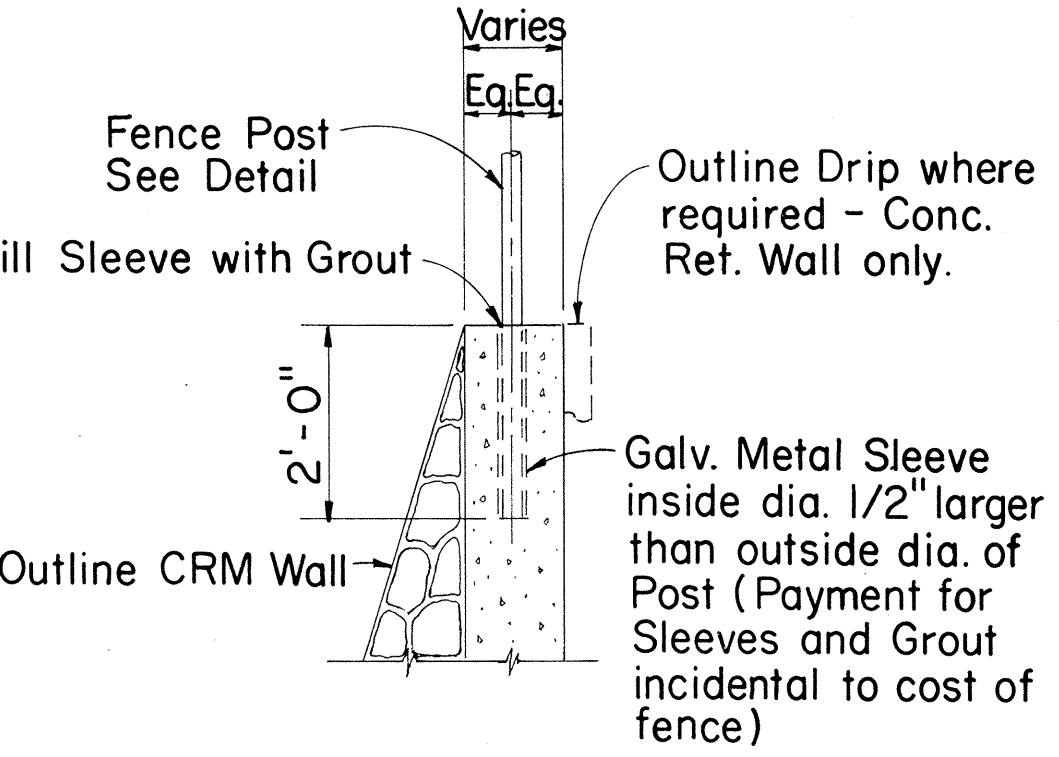
DETAIL OF 4 FT. CHAIN LINK GATE



CHAIN LINK FENCE DETAILS

Height of Fence	Minimum Depth of Footing		Minimum Footing Diameter	
	Line Post	Corner, Pull, End and Gate Posts	Line Post	Corner, Pull and End Posts
3'	2'-0"	2'-6"	8"	8"
4'	2'-6"	2'-6"	8"	8"
5'	3'-0"	3'-0"	8"	8"
6'	3'-0"	3'-0"	8"	9"

TYPICAL SECTION (ON CRM & CONC. RET. WALL)



APPROVAL RECOMMENDED: M. Hironaka 12-9-69
HIGHWAY DESIGN ENGINEER DATE

APPROVED: M. Hironaka 12-10-69
ASSISTANT CHIEF, ENGINEERING DATE

NO.	REVISION	APPROVED BY	DATE

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

STANDARD DETAILS

CHAIN LINK FENCE
(WITHOUT TOPRAIL)

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

6"

12" o.c.

1/2" Ø Steel Plunger Bar, 39" long

8"

12"

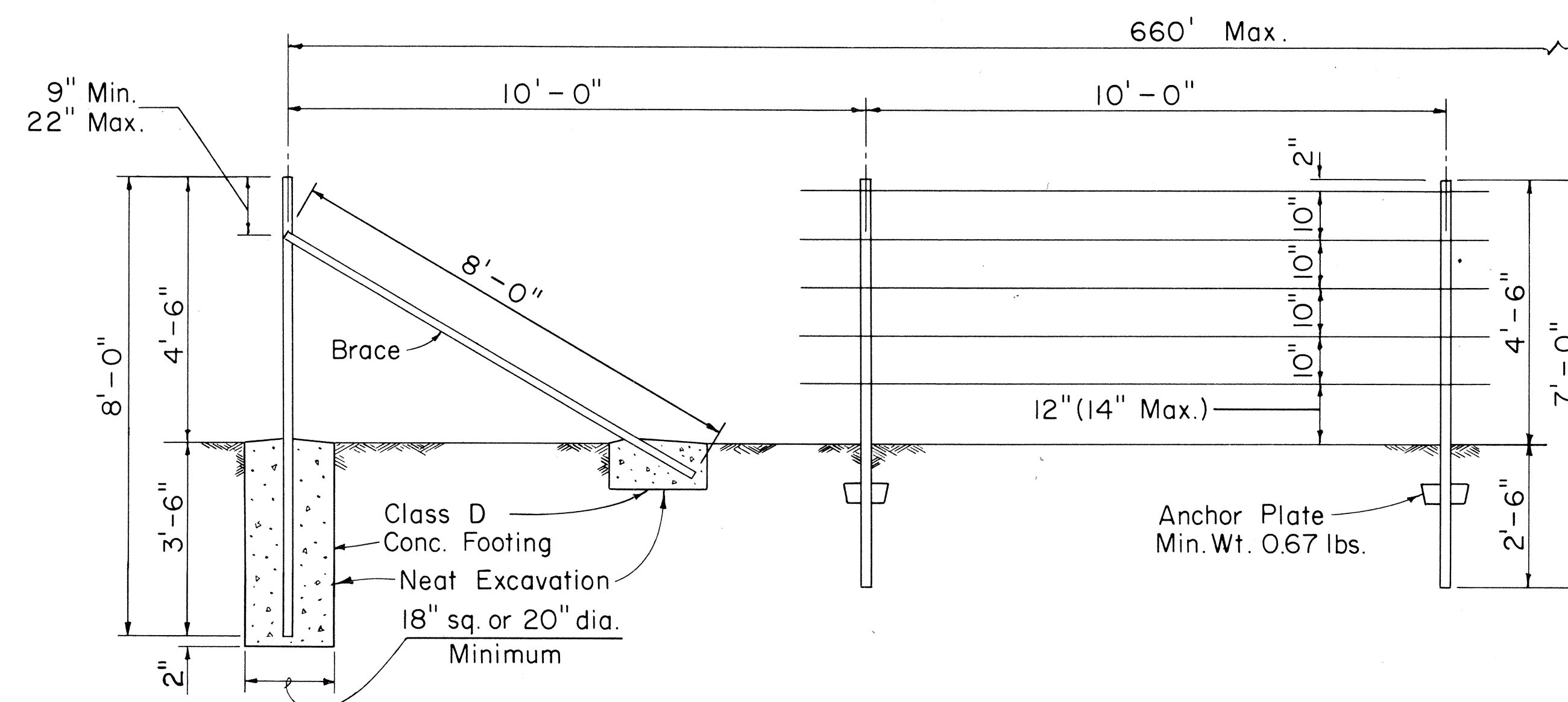
10" Dia.

Class D Concrete

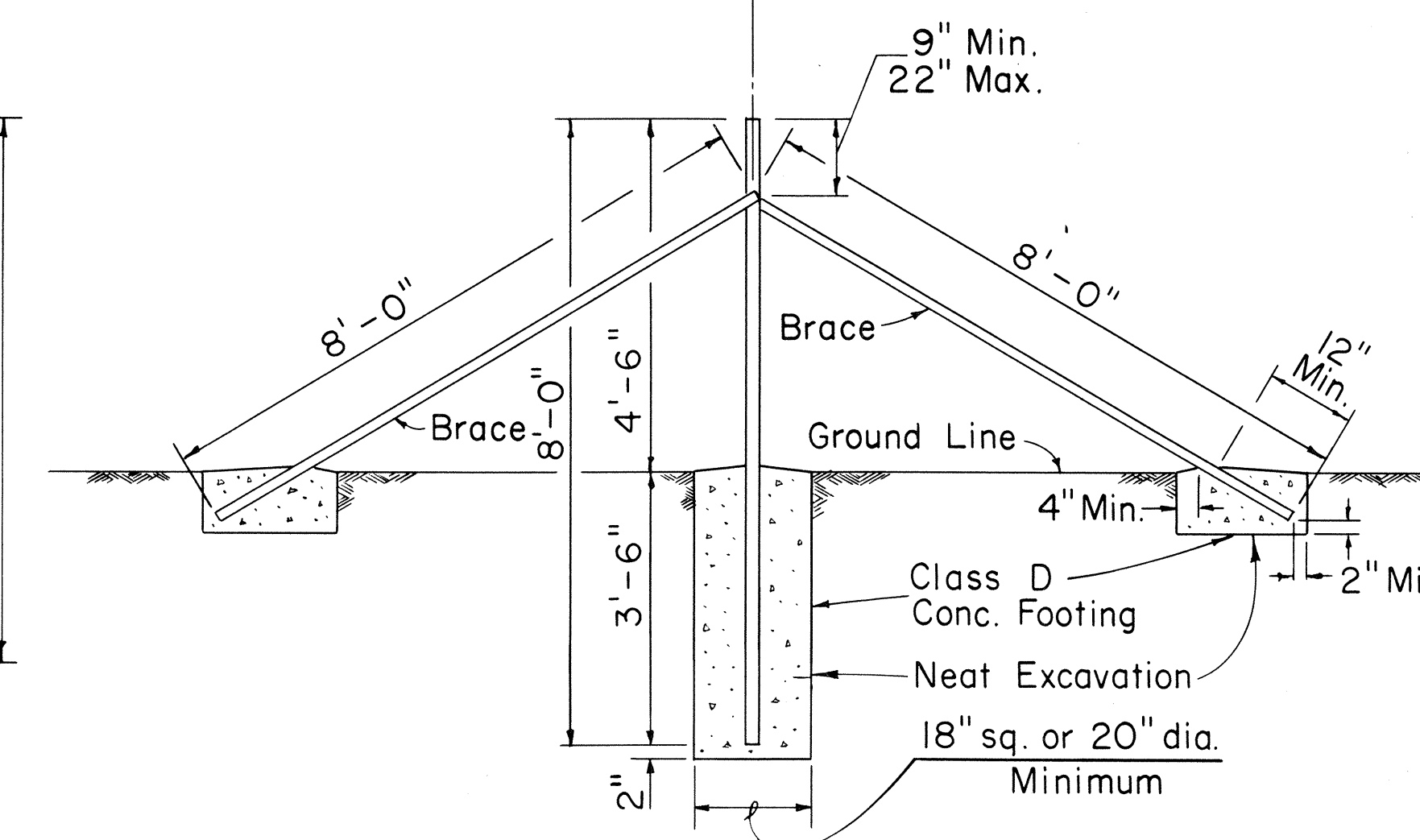
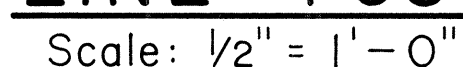
Fin. Grade

Imbed 3/4" I.D. Galv. Pipe

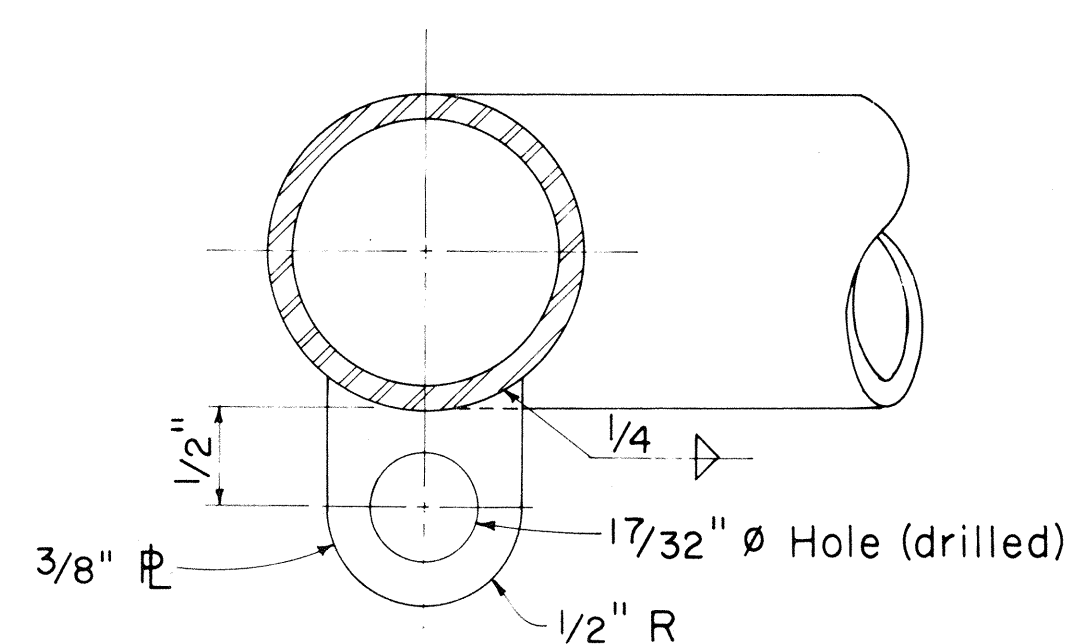
Scale: 1" = 1' - 0"



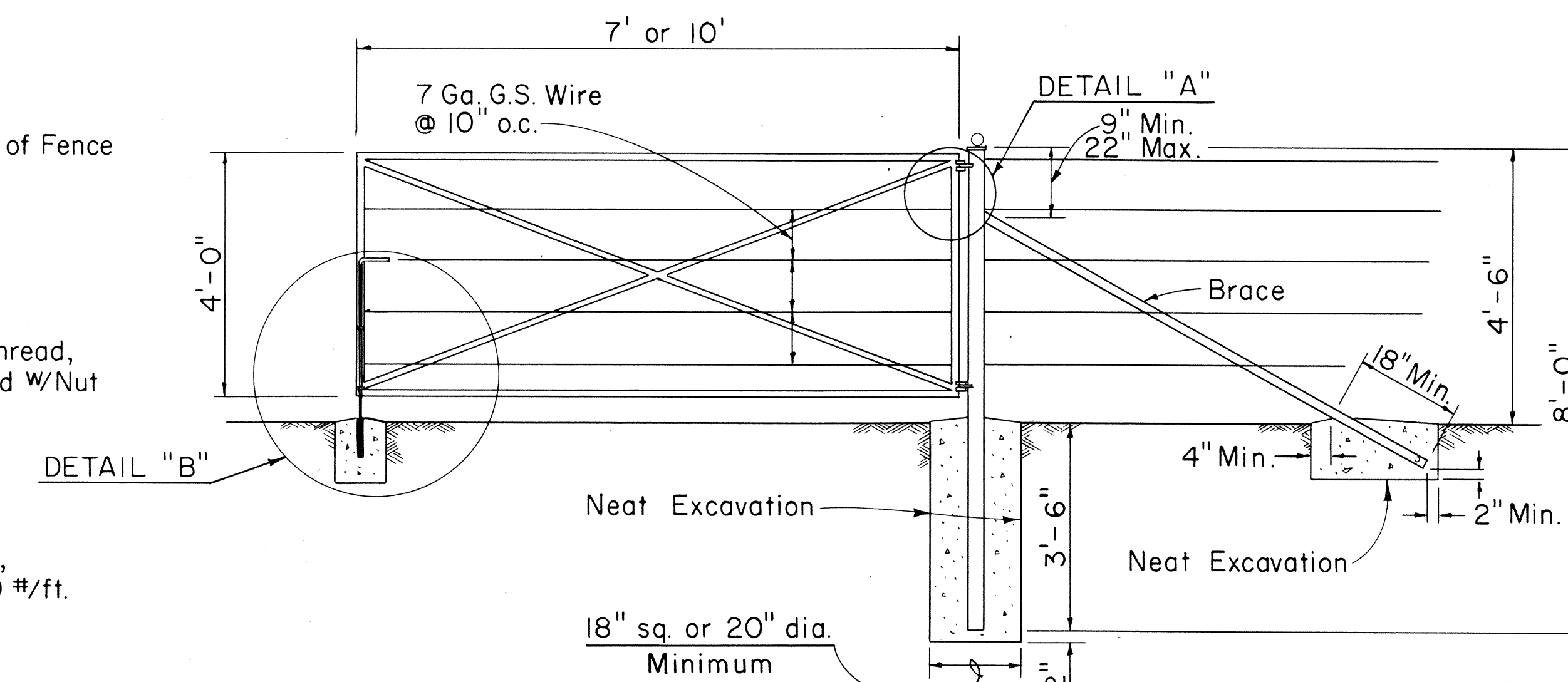
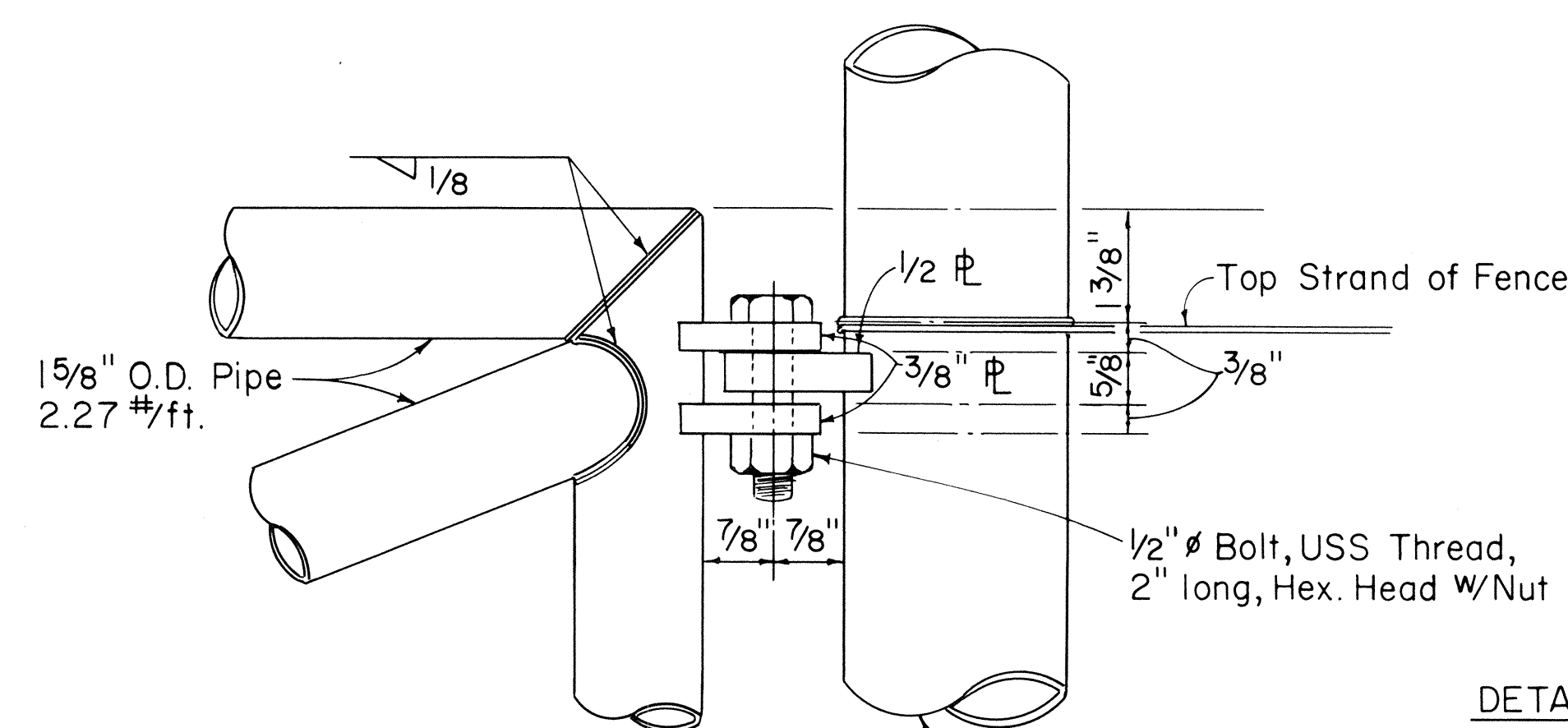
Scale: $1/2'' = 1' - 0''$



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

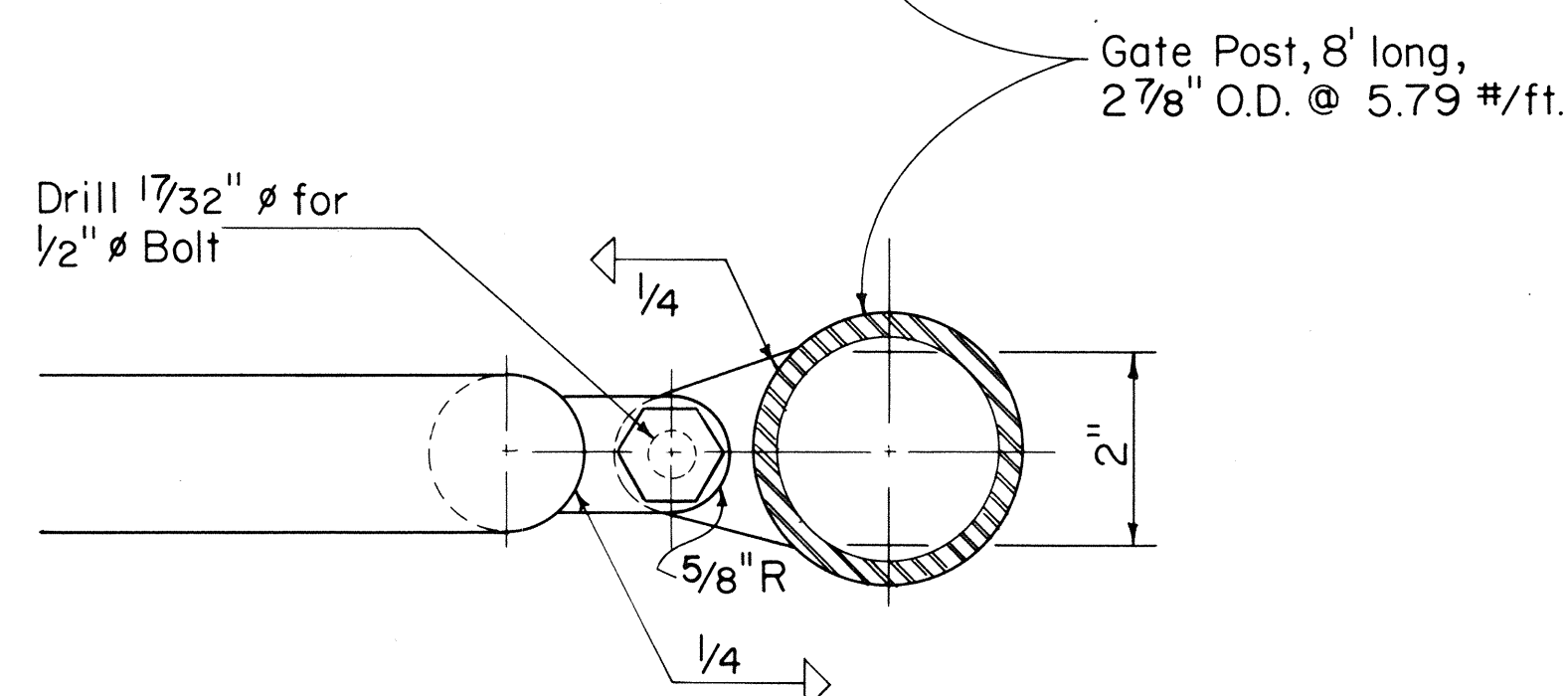


Scale: Full Size

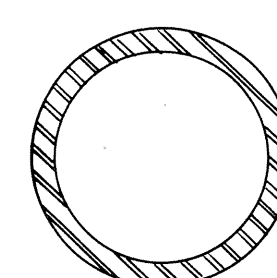


Scale: $\frac{1}{2}'' = 1' - 0''$

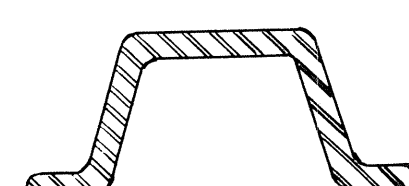
1. Gate Hinge Blades and Plunger bar guides shall be chamfered $\frac{1}{32}$ " all around and as required to prevent conflict between moving parts.
2. All parts of Gates shall be galvanized after fabrication.
3. All holes shall be reamed as necessary to admit hinge bolts or plunger bars.
4. Gate panels shall be strung with 7 ga. smooth fence wire spaced to conform to spacing of adjacent fence strands.
5. One plunger bar required per set of double-hung gates. None required for single-hung gate.



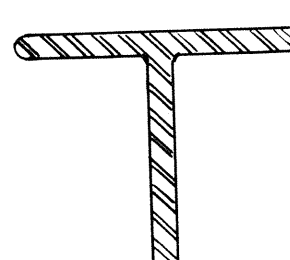
Not To Scale



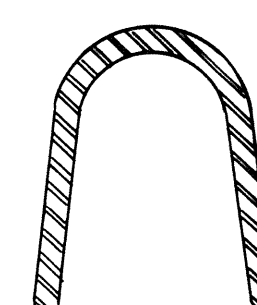
TUBULAR



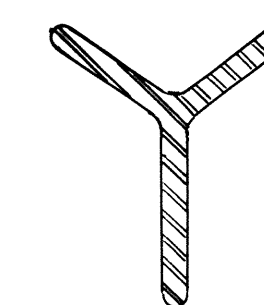
CHANNEL



TEE



U - BAR

Y - BAR

Not To Scale

APPROVAL RECOMMENDED:
M. H. H. H. H. 12-4-69
HIGHWAY DESIGN ENGINEER DATE

APPROVED: Andrew S. Schick 12-10-9
ASSISTANT CHIEF, ENGINEERING DATE

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

STANDARD DETAILS

WIRE FENCE WITH METAL POSTS

Scale: As Noted

SHEET No. 86 OF 86 SHEETS DD 607.3