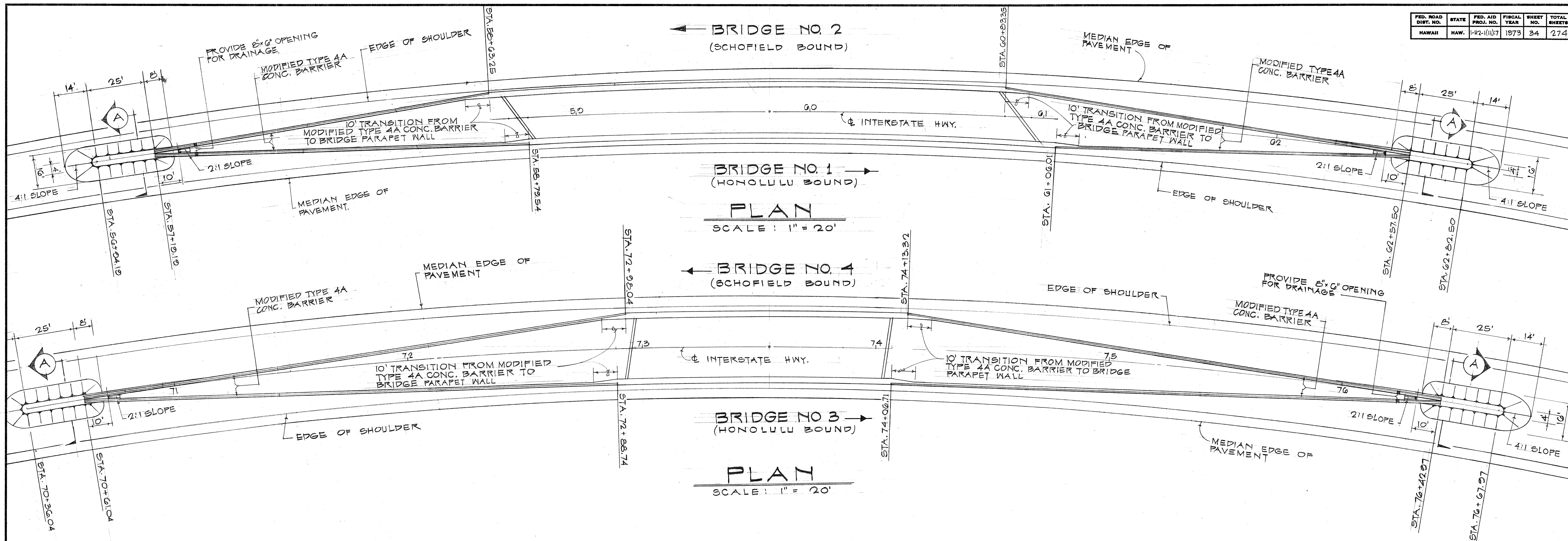


FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	1-42-1(11)	1973	34	274



BRIDGE NO. 1
(HONOLULU BOUND)

PLAN
SCALE: 1" = 20'

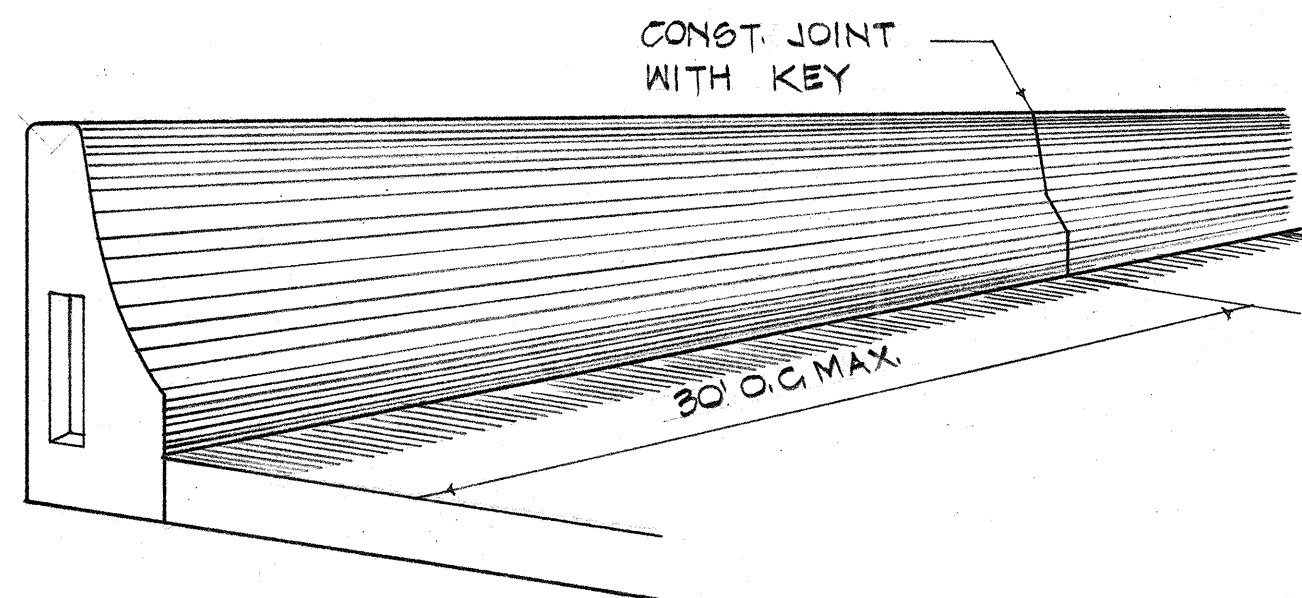
BRIDGE NO. 2
(SCHOFIELD BOUND)

BRIDGE NO. 3
(HONOLULU BOUND)

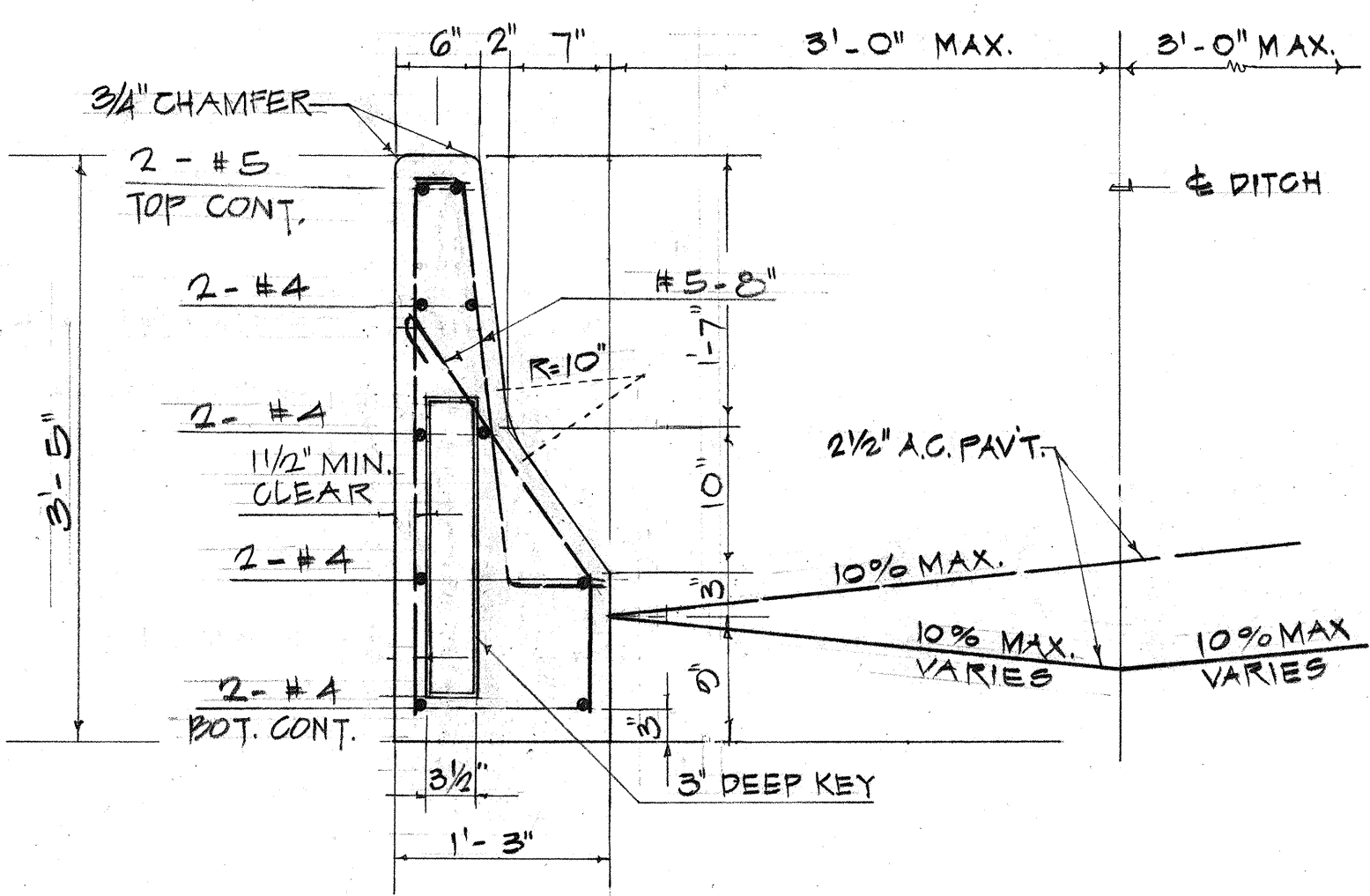
PLAN
SCALE: 1" = 20'

GENERAL NOTES

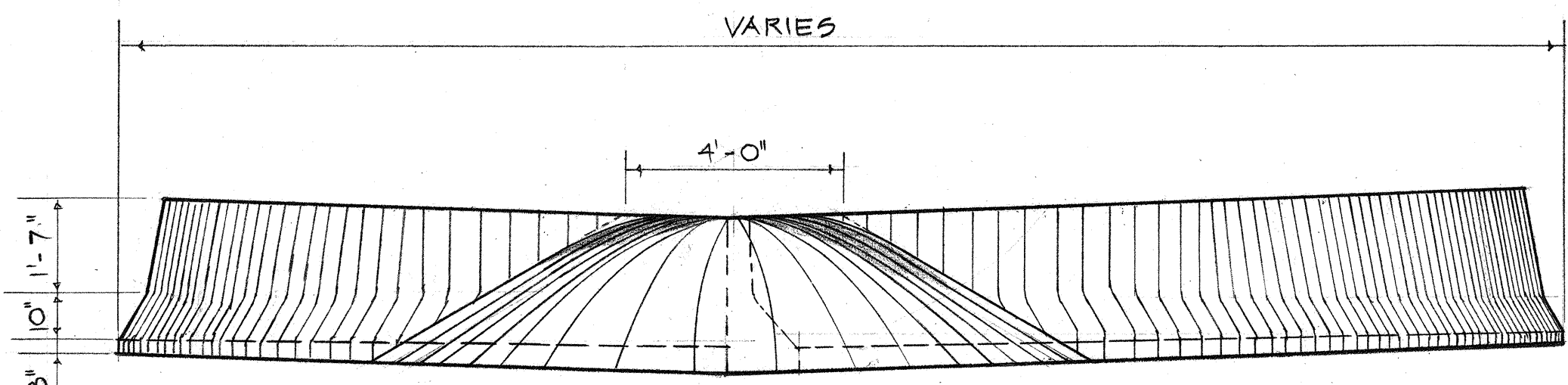
1. CONCRETE FOR CONCRETE BARRIERS SHALL BE CLASS A
2. CONSTRUCTION JOINTS WITH KEYS SHALL BE PROVIDED AND SPACED @ 30' O.C. MAX. FOR ALL CONC. BARRIERS.
3. EXPANSION JOINT SHALL BE CONSTRUCTED @ NINETY (90 FT.) INTERVALS OR AT EXISTING EXPANSION JOINTS OF STRUCTURES, (USE 1/2" PREMOLDED JOINT FILLER, INCIDENTAL TO CONC. BARRIER)



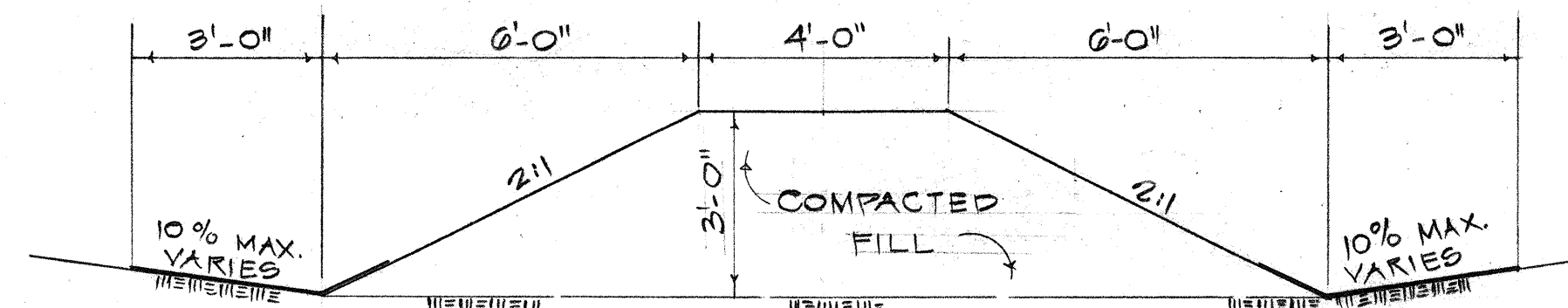
AT TANGENT SECTIONS
NOT TO SCALE



TYPICAL SECTIONS
SCALE: 1" = 1'-0"



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



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

MODIFIED TYPE 4A CONCRETE BARRIER & EARTHMOULD DETAILS
SCALE AS SHOWN

	AUSTIN, YEE & PARK (A JOINT VENTURE) 745 FORT STREET, HONOLULU, HAWAII		
	DES. VVG	DR. TP	CHK. JSK
	THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION		
	APPROVED FOR JOINT VENTURE		
STATE OF HAWAII DEPARTMENT OF TRANSPORTATION HIGHWAYS DIVISION			
MODIFIED TYPE 4A CONCRETE BARRIER & EARTHMOULD DETAILS BRIDGES NOS. 1, 2, 3 & 4 WAHIAWA INTERCHANGE F.A.I. PROJ. NO. 1-42-1 (11):17			
Scale as noted Date: 4-25-73			
SHEET No. 1 OF 10 SHEETS			

CURVE DATA:

- $\Delta = 40^{\circ} 06' 25''$
- $R = 10.0'$
- $L_c = 7.0'$

#4 @ 16" C

INTERMEDIATE CONG. SUPPORT BLOCK FOUR MONOLITHIC WITH CONG. END POST

END CONG. END POST

3-#5 BENT BARS (SEE ELEV.) EQ SPACED @ END

4-#5 C @ G.O.C.

2-#4 x 2'-6" LONG

2'-3 1/4"

VARIES SEE PLAN

2'-6 5/8" SLOT

3 3/8"

5 7/8"

11 3/4"

7" 2" 10"

1" - 7"

2'-11 3/8"

3'-1 1/2"

3'-1 1/2"

1'-11 3/4"

1" CLEAR

REFERENCE LINE & 5/8" x 7 1/4" LONG ANCHOR BOLTS

SPECIAL END SHOE

REFERENCE: FRONT FACE OF CONG. END POST

25'-0" (2 STANDARD GUARD RAIL PANELS) SUPPORTS @ 3'-1 1/2" (SEE NOTE 4 THIS SHT.)

CONCRETE END POST PLAN-DETAIL

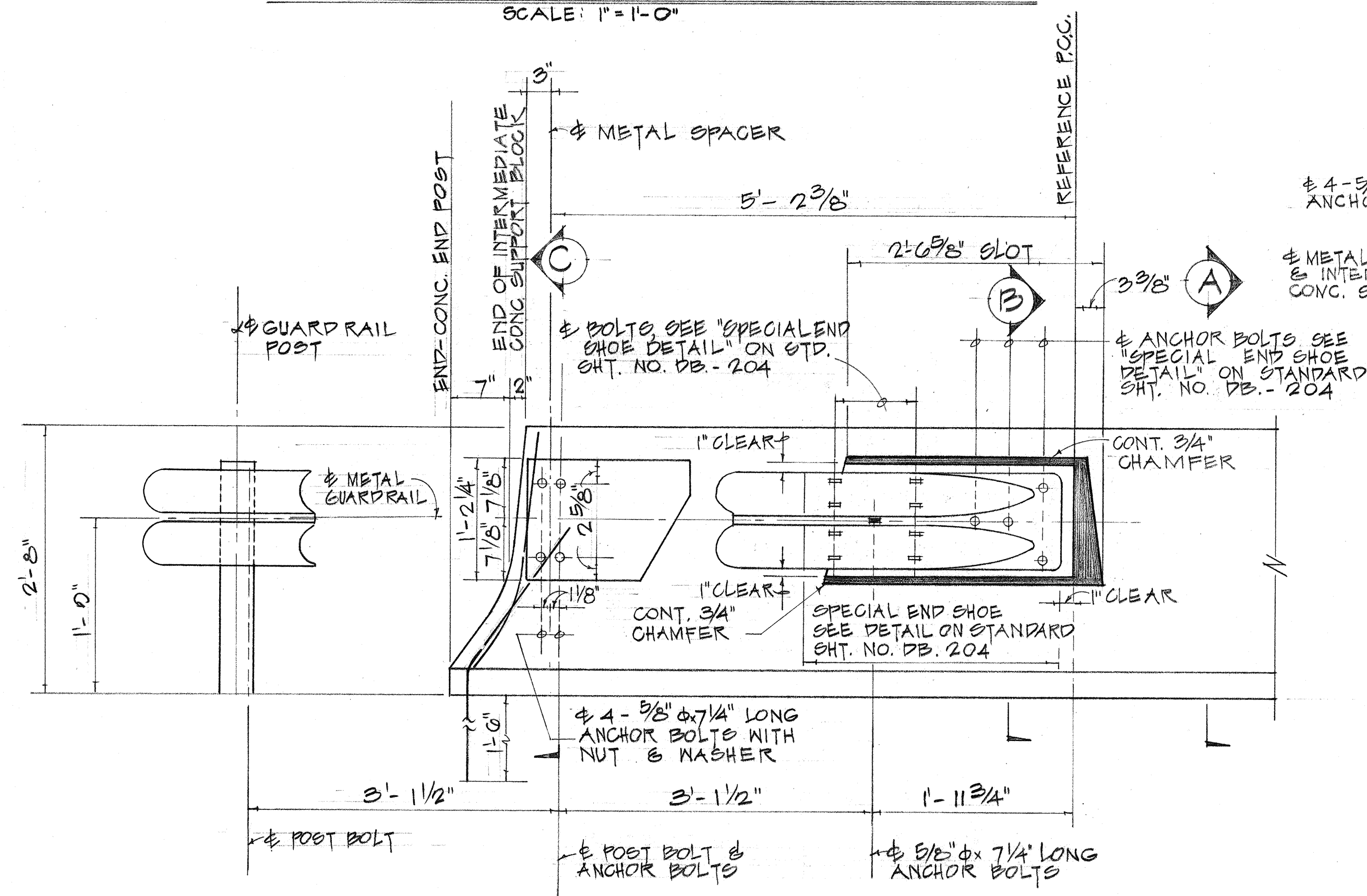
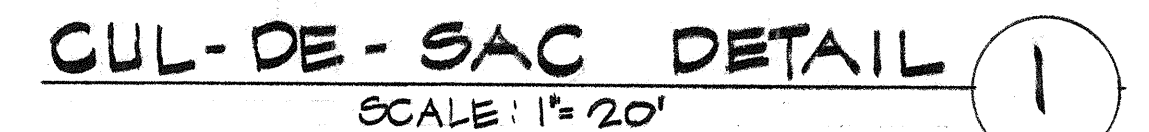


SECTION

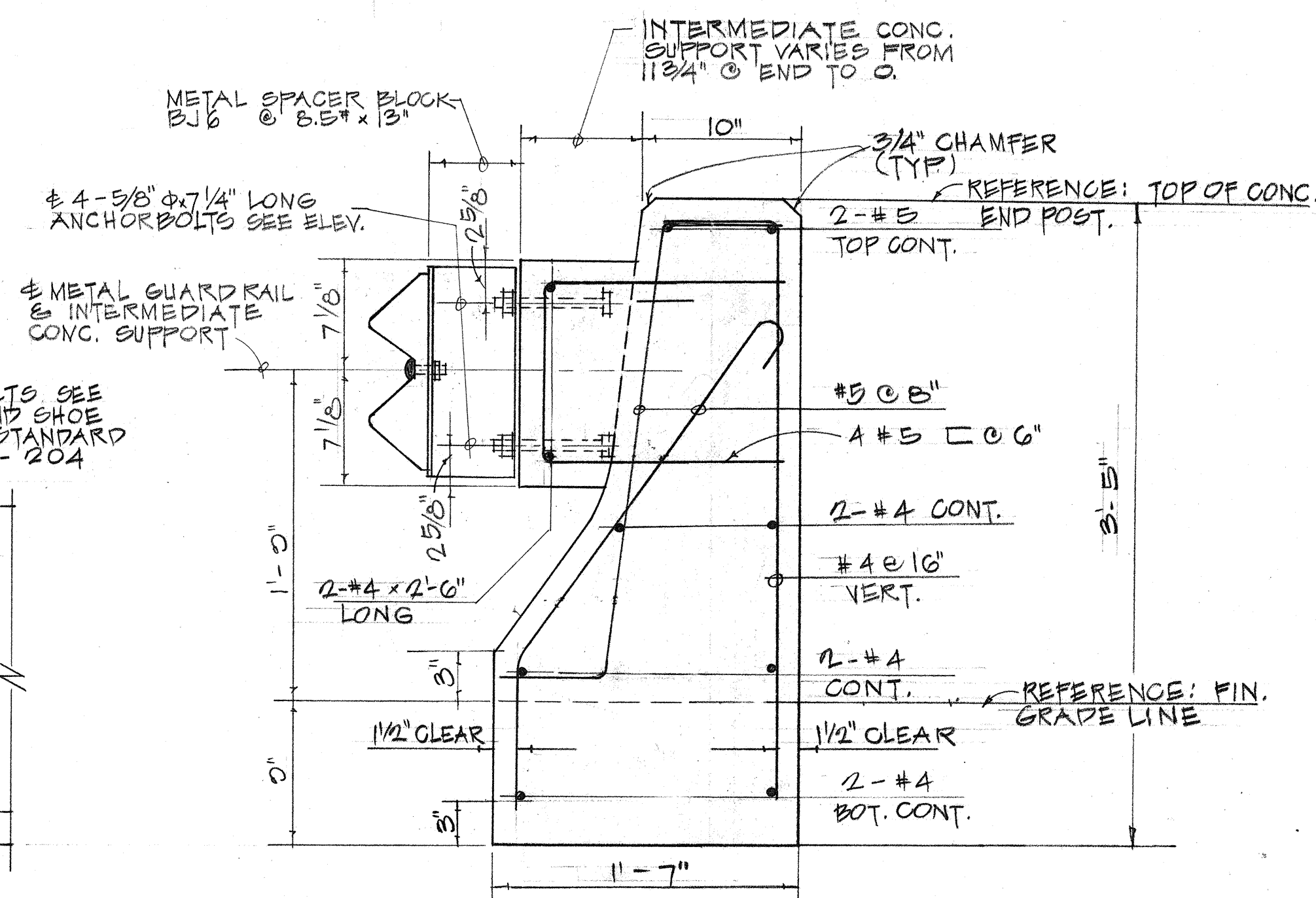
SCALE: $1\frac{1}{2}'' = 1'-0''$

NOTE:
SEE SHEETS 75 AND 76
FOR LAYOUT

(B)



CONCRETE END POST ELEVATION - DETAIL
SCALE: 1" = 1'-0"

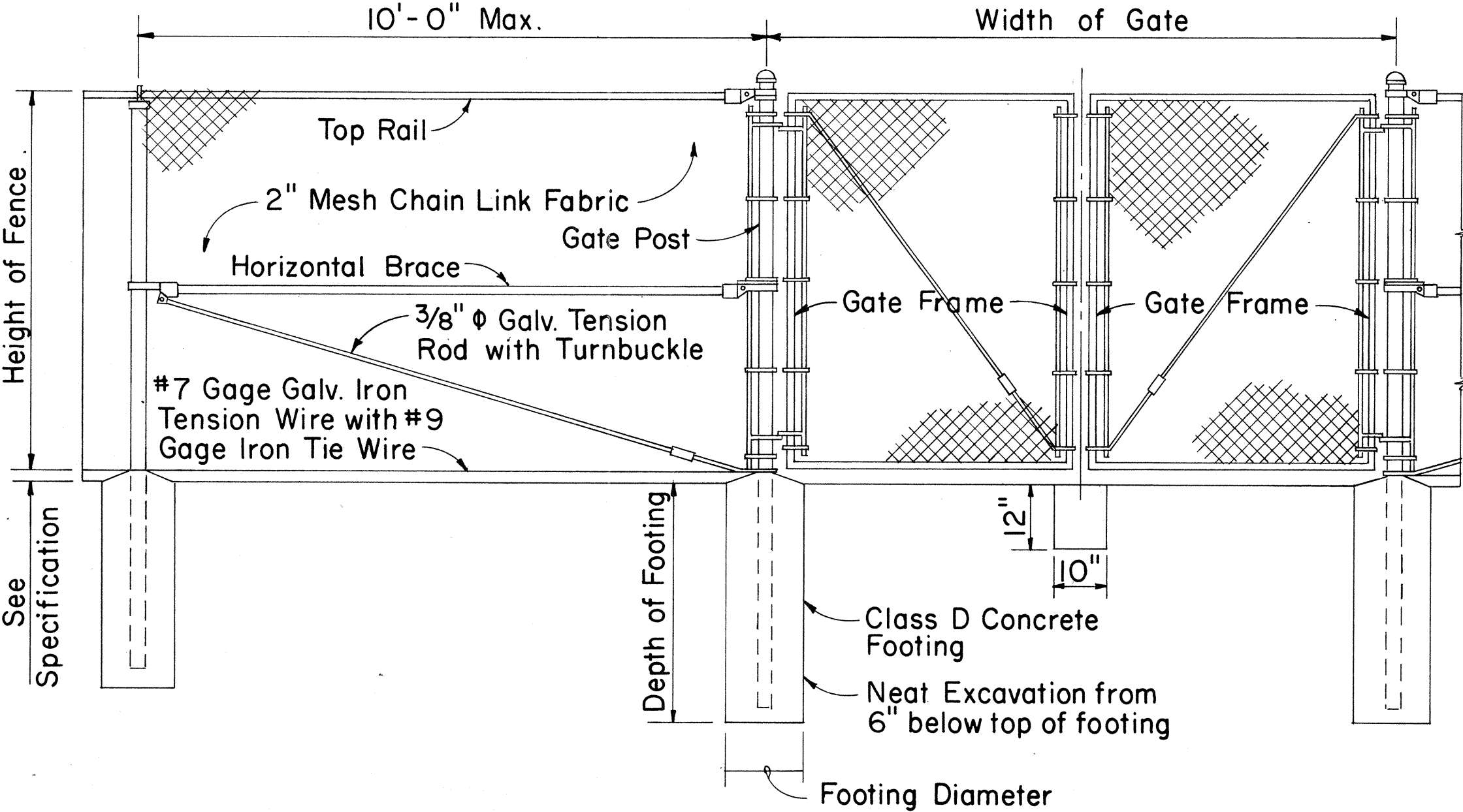


SECTION C
SCALE: 1 1/2" = 1'-0"

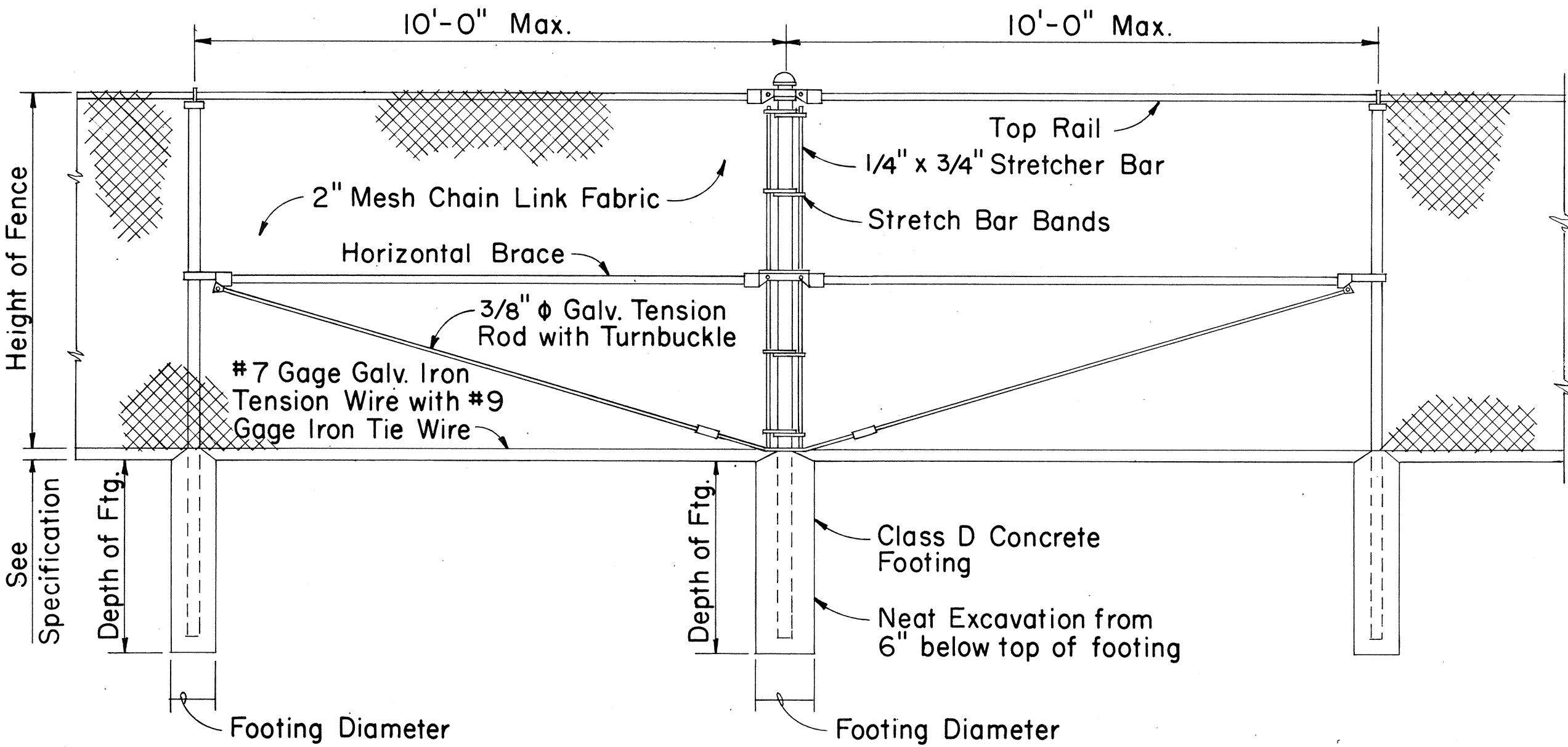
1. ALL ANCHOR BOLTS SHALL BE HIGH STRENGTH BOLTS CONFORMING TO THE REQUIREMENTS OF ASTM. A 325.
2. ALL SHOE ASSEMBLY, INCLUDING ANCHOR BOLTS, NUTS & WASHERS SHALL BE GALVANIZED.
3. SPECIAL END SHOE SHALL BE FABRICATED FROM 10 GAGE STEEL CONFORMING TO THE REQMTS OF AASHTO 180.
4. FIRST 25'-0" OF GUARD RAIL ADJOINING "SPECIAL END SHOE" SHALL BE GALVANIZED STEEL.
5. ANCHOR BOLT LENGTH GIVEN FROM UNDER BOLT HEAD.
6. LOW LEVEL LIGHTING CONCRETE BARRIERS ON CURVES SHALL BE PLACED WITH CHORD LENGTHS IN MULTIPLE OF 6'± AS REQUIRED BY APPROVED BARRIER LOW MOUNTED LUMINAIRE.
7. CONSTRUCTION JOINTS AND EXPANSION JOINTS FOR LOW LEVEL LIGHTING CONCRETE BARRIERS SHALL BE AS SPECIFIED FOR MODIFIED TYPE 4A CONCRETE BARRIER.

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

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	1-H2-(11)	1973	36	274

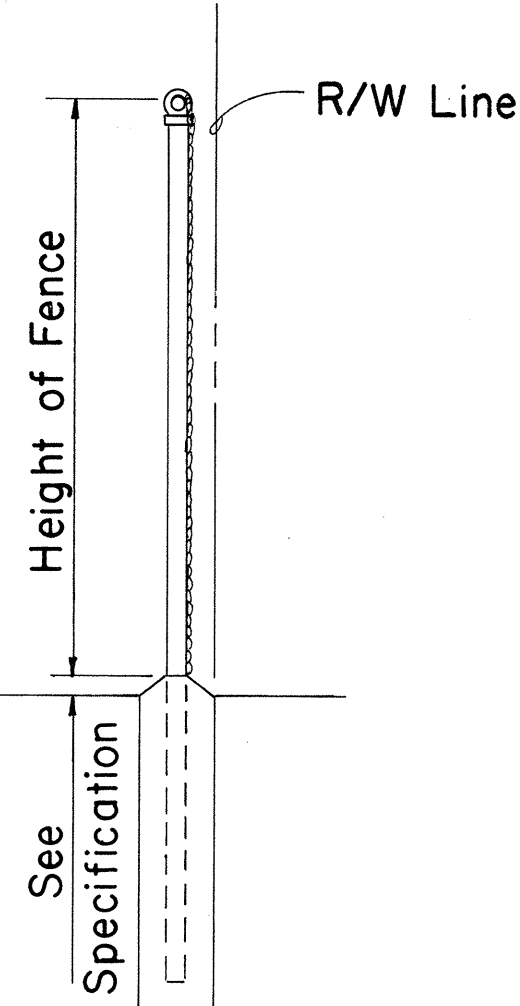


LINE POST GATE POST GATE POST



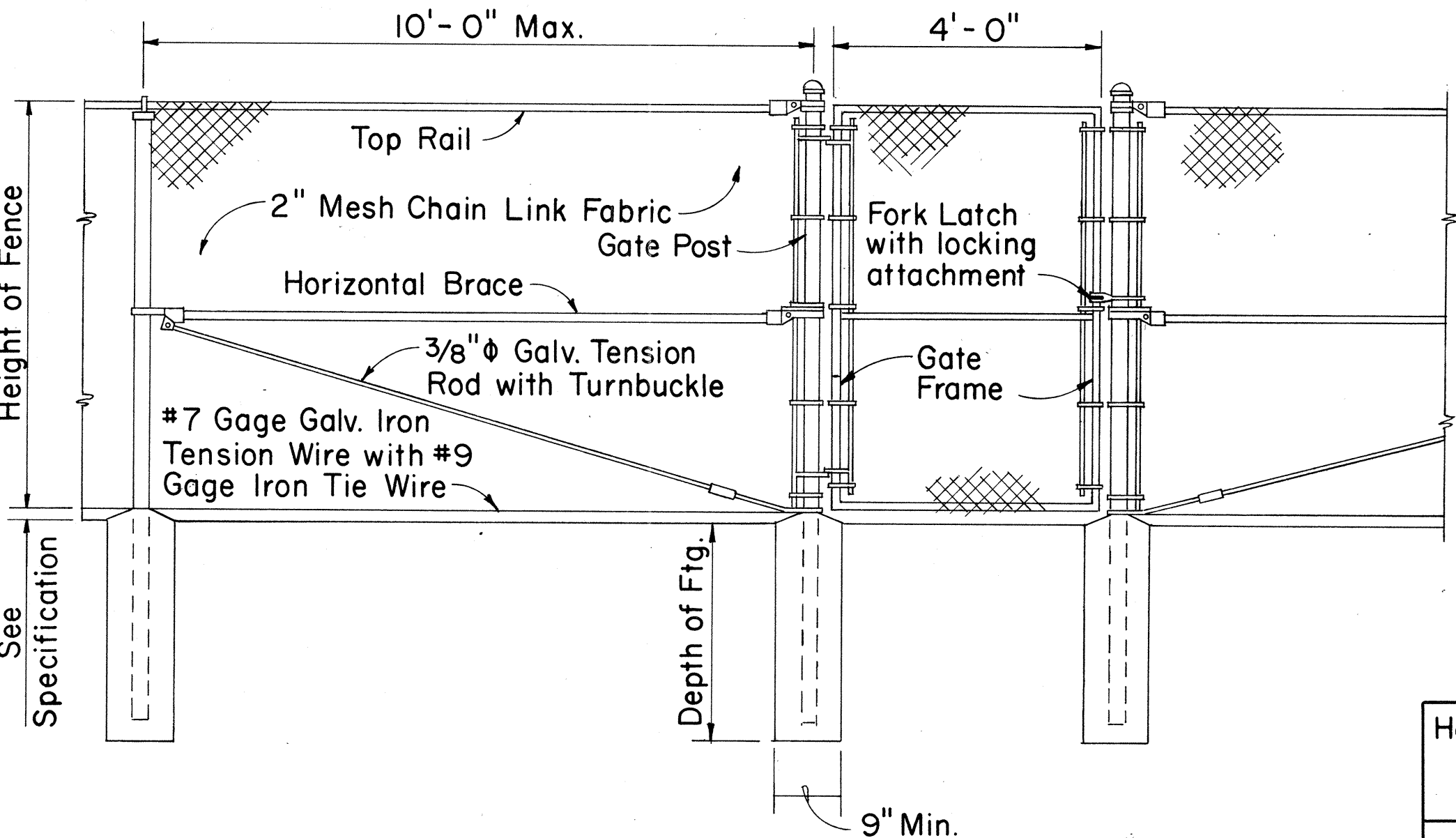
LINE POST PULL POST LINE POST

TYPICAL SECTION
(WITH CONCRETE FOOTING)



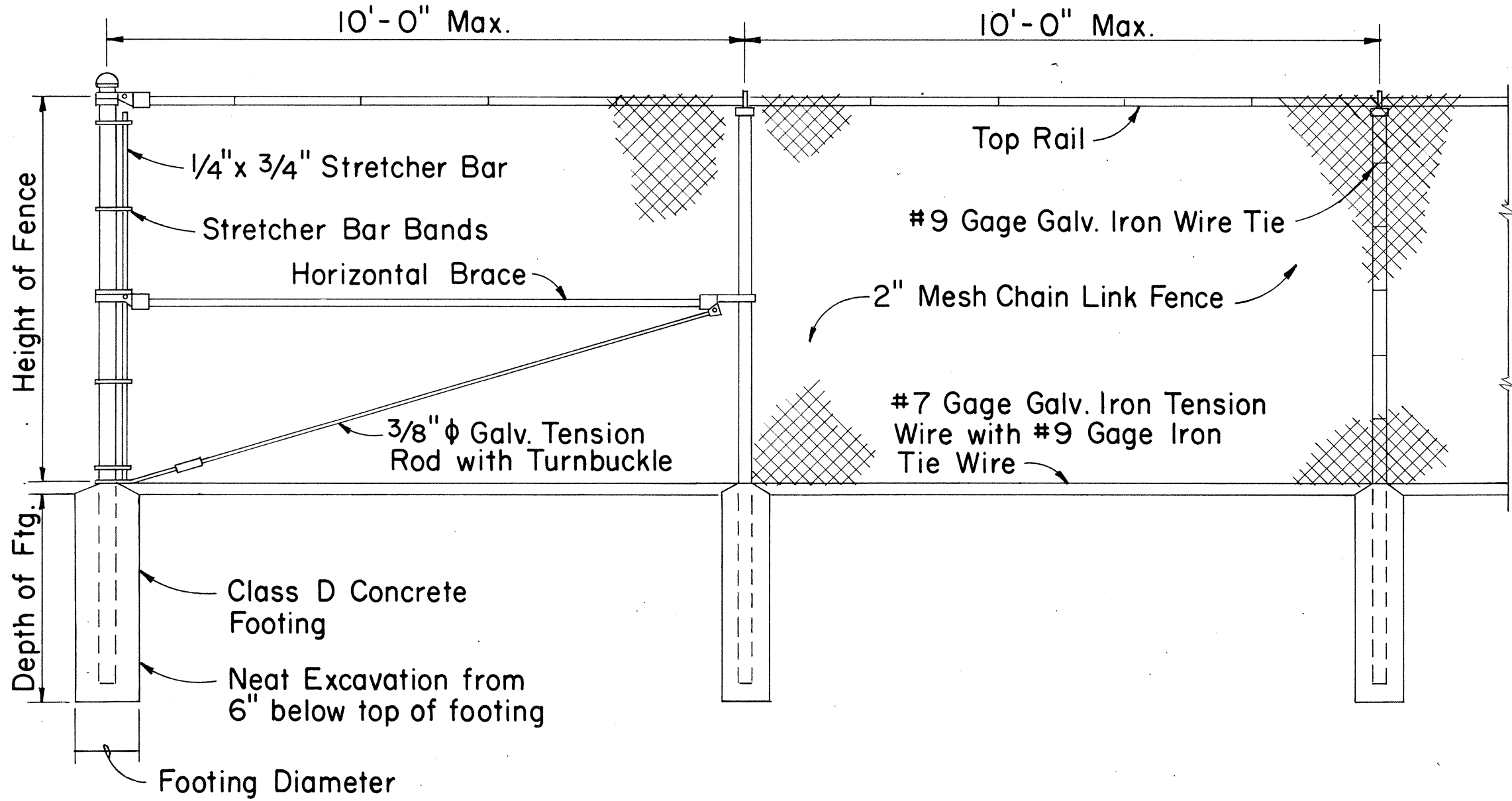
DETAIL OF CHAIN LINK GATE

- 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.



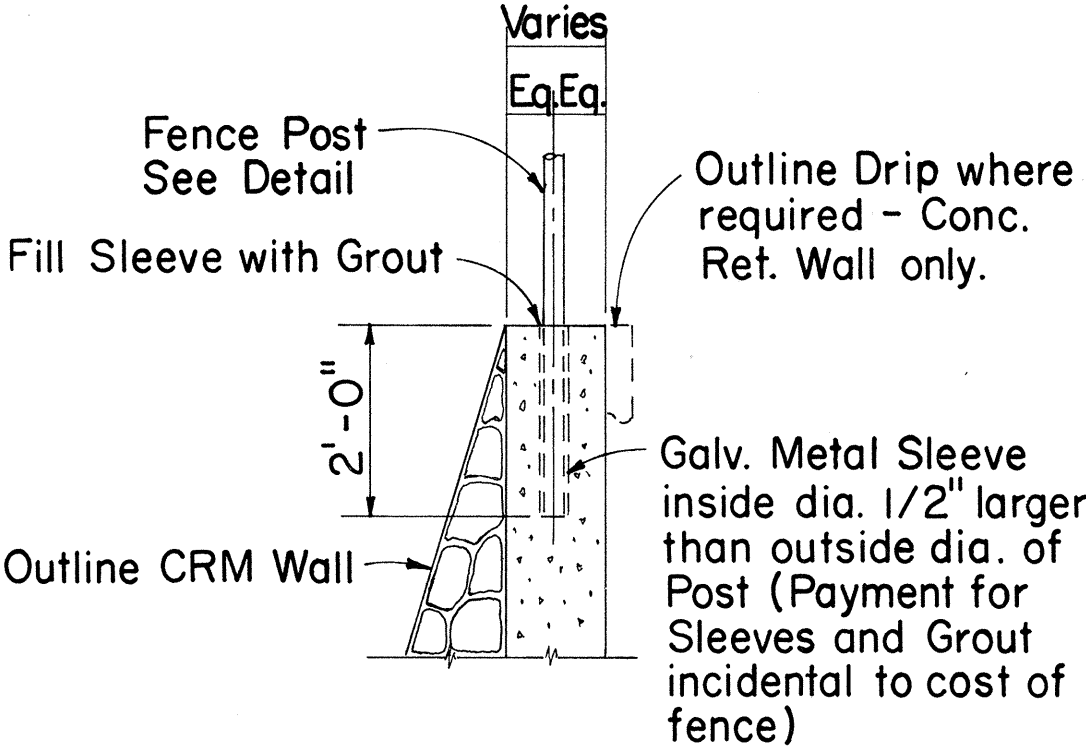
LINE POST GATE POST GATE POST

DETAIL OF 4 FT. CHAIN LINK GATE



END POST LINE POST LINE POST

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



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"

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

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

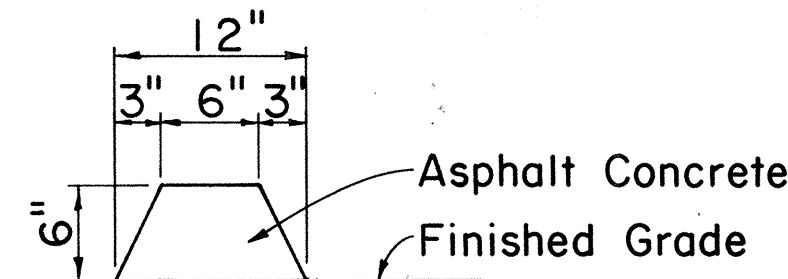
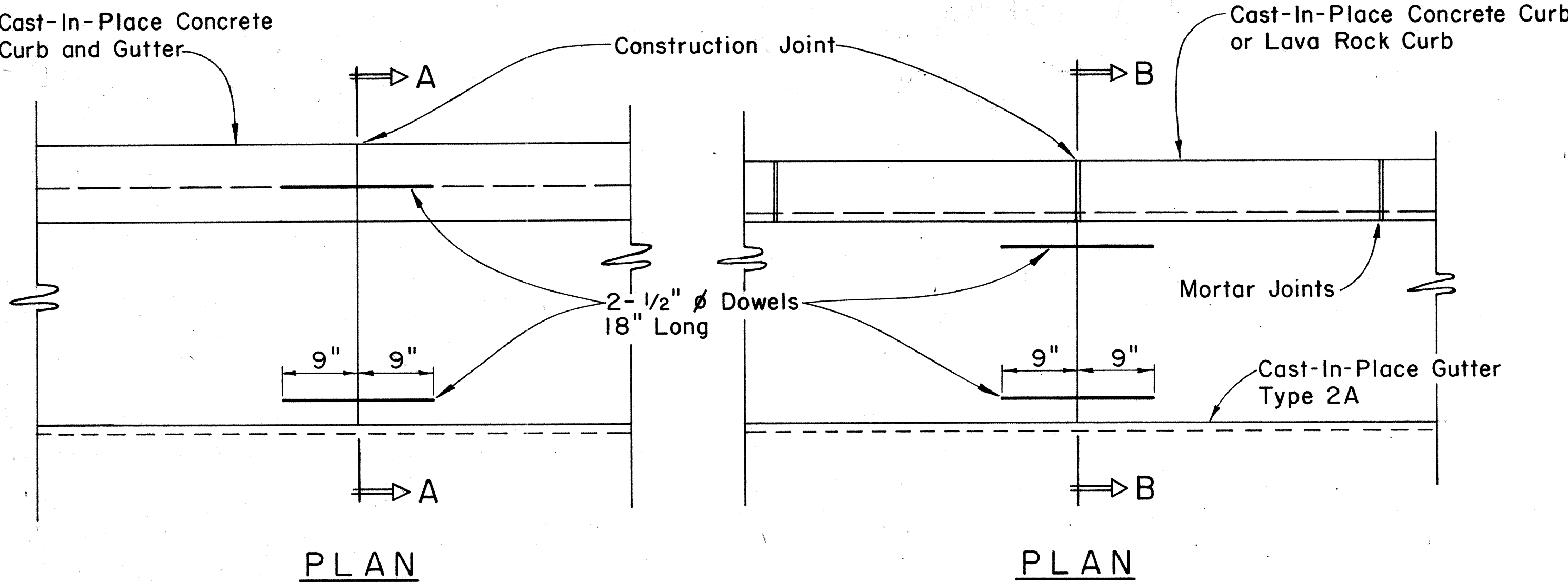
NO.	REVISION	APPROVED BY	DATE

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

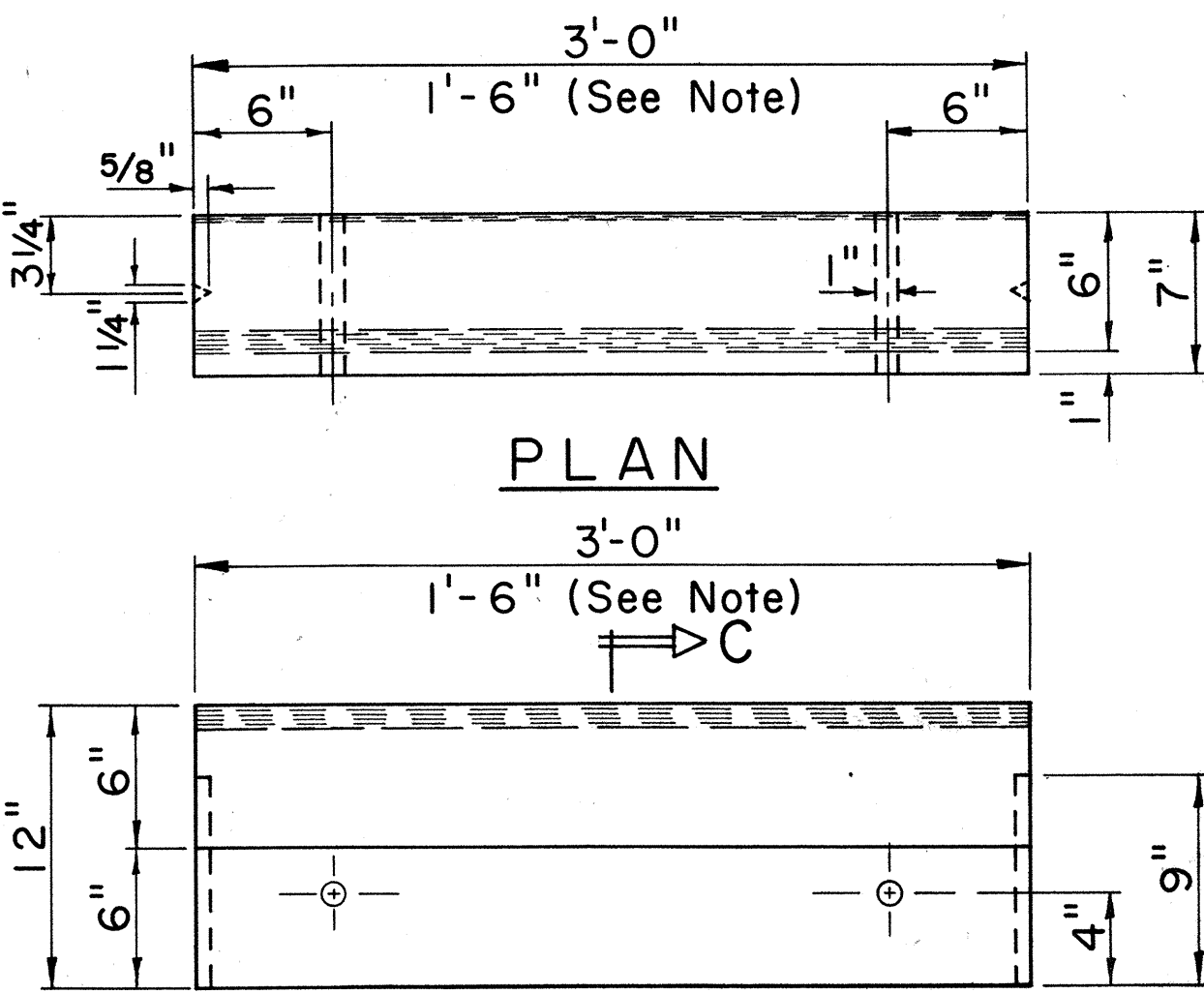
STANDARD DETAILS
CHAIN LINK FENCE
(WITH TOPRAIL)

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

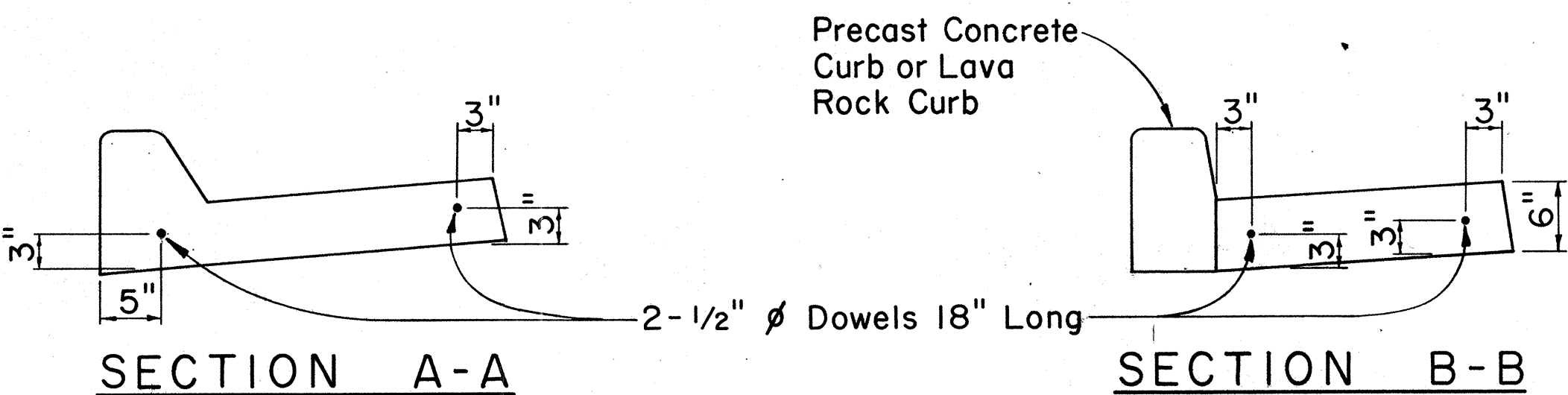
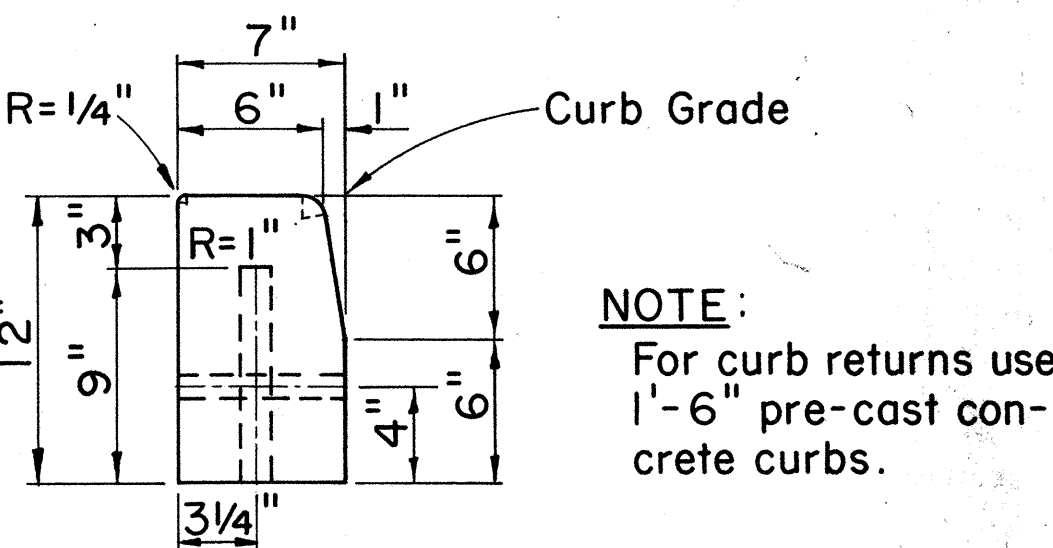
FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	1-H2-1(11)	1973	37	274



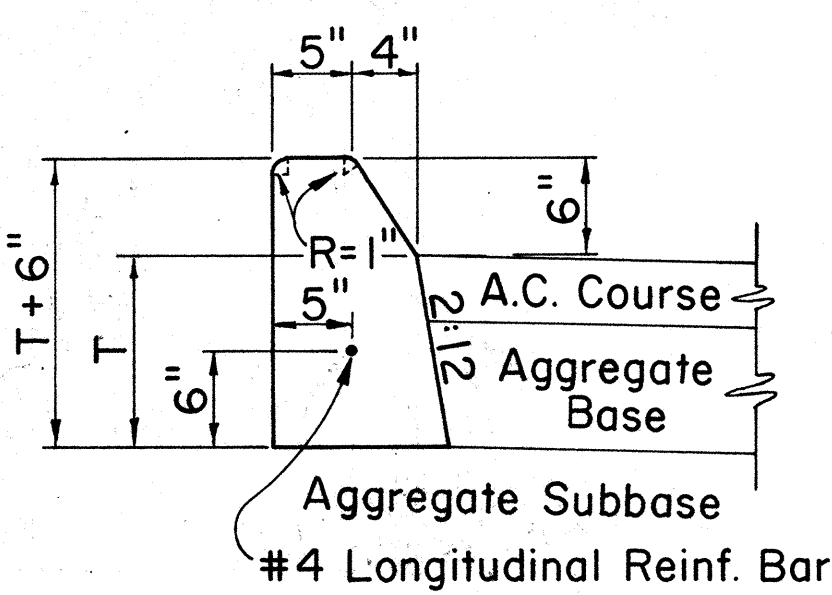
CURB, TYPE 6
BITUMINOUS CURB
 Scale: 1 1/2" = 1'-0"



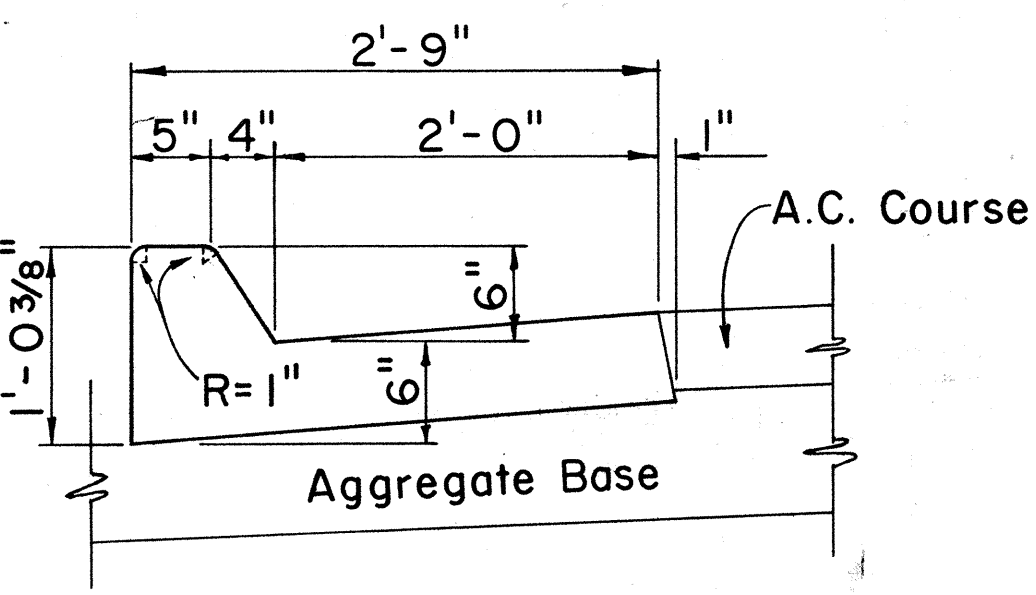
SECTION C-C
CURB, TYPE 3D
 Scale: 1 1/2" = 1'-0"



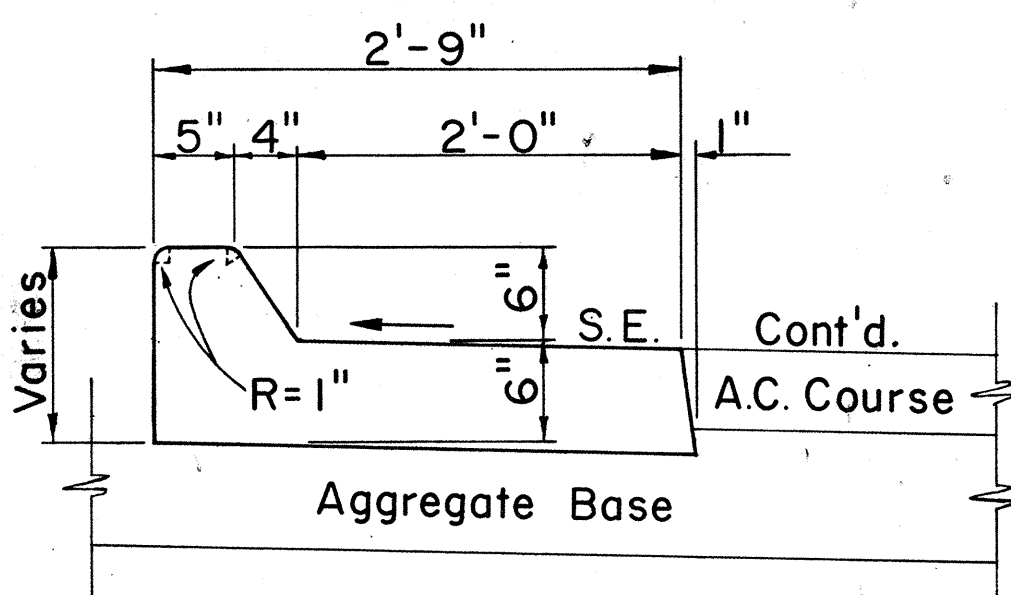
CAST-IN-PLACE CURB & GUTTER
CAST-IN-PLACE GUTTER
CONSTRUCTION JOINT DETAIL



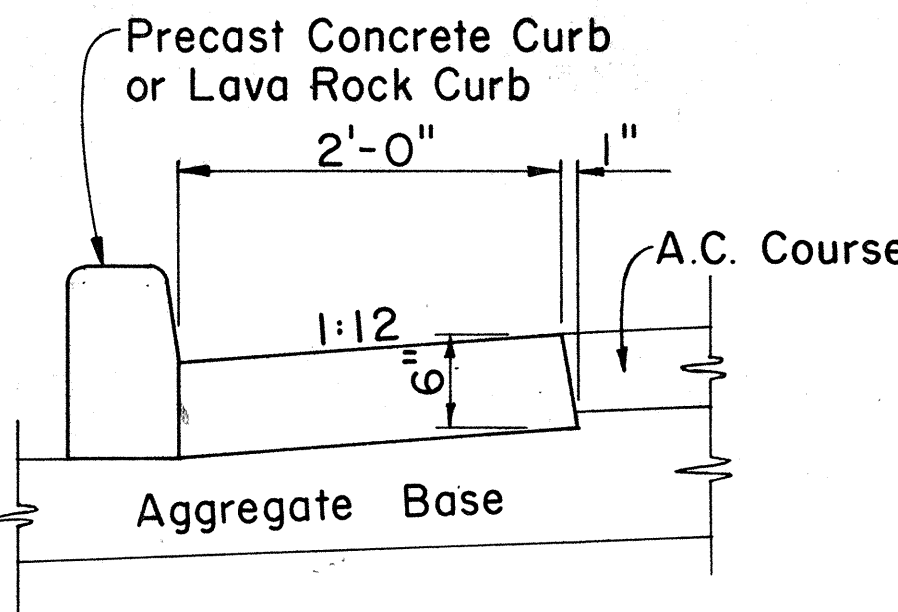
CURB, TYPE 2A



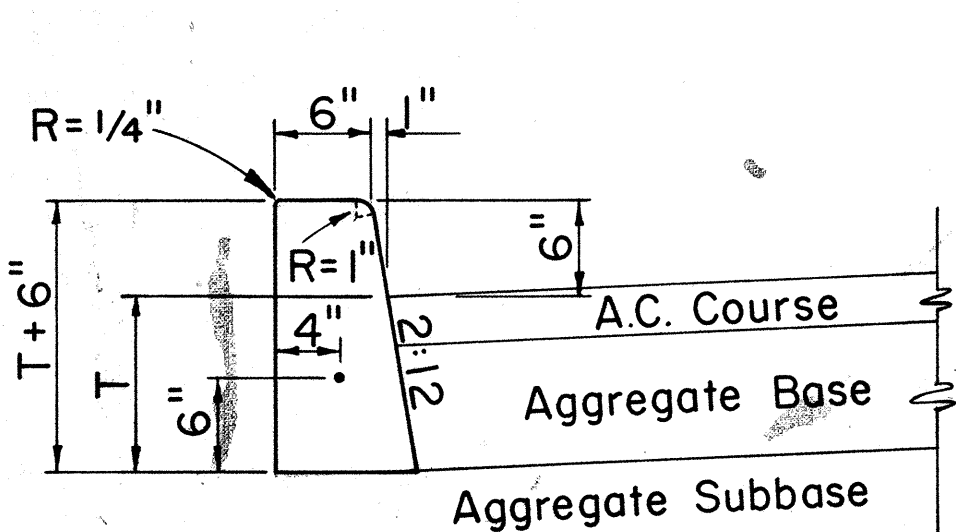
CURB & GUTTER, TYPE 2AG



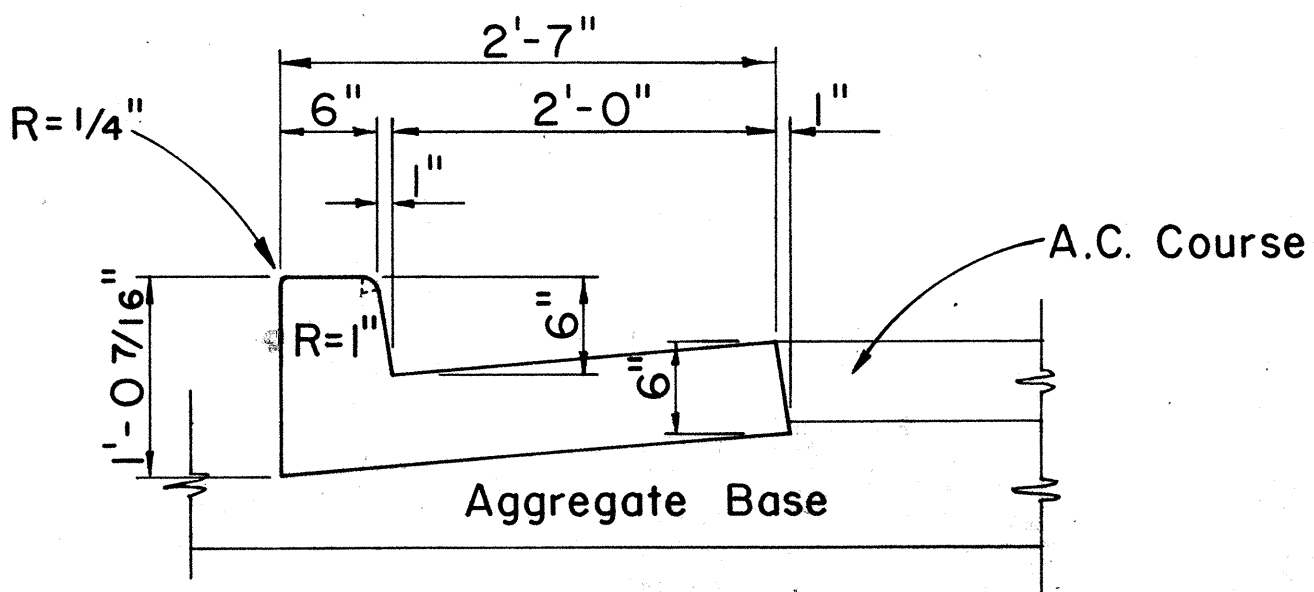
CURB & GUTTER, TYPE 2AGM



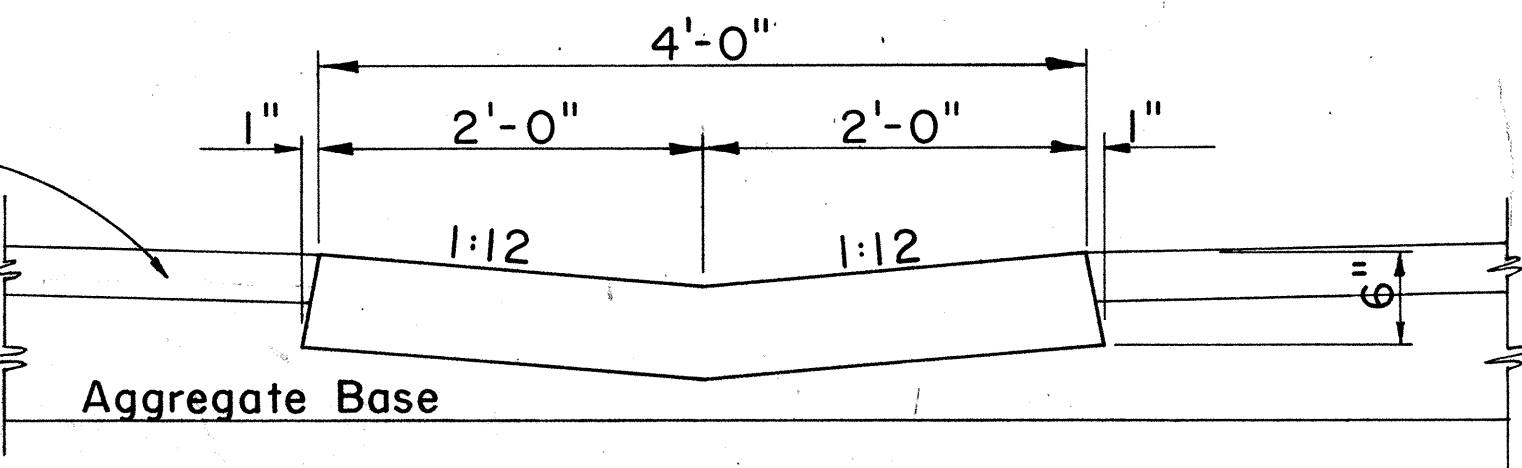
GUTTER, TYPE 2A



CURB, TYPE 2D



CURB & GUTTER, TYPE 2DG



GUTTER, TYPE 2G

CAST-IN-PLACE CONCRETE CURBS AND/OR GUTTERS
 Scale: 1" = 1'-0"

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

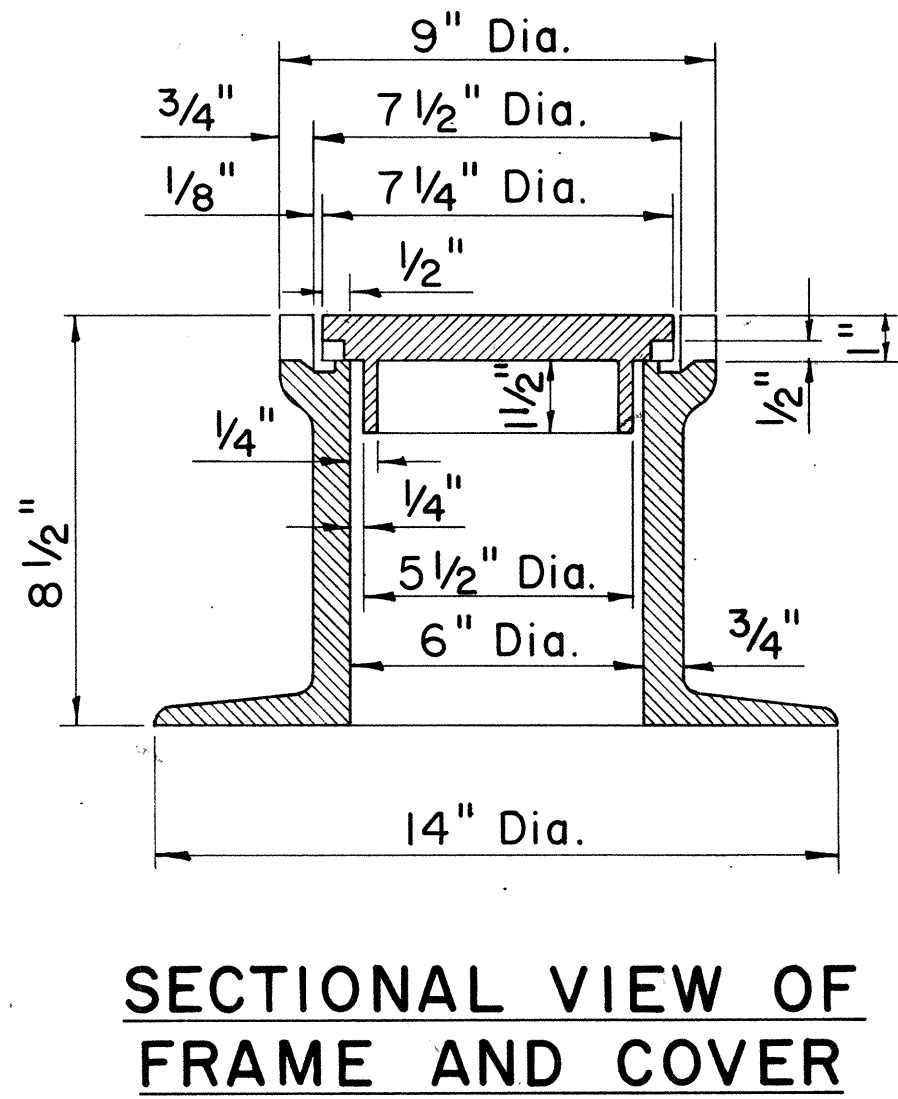
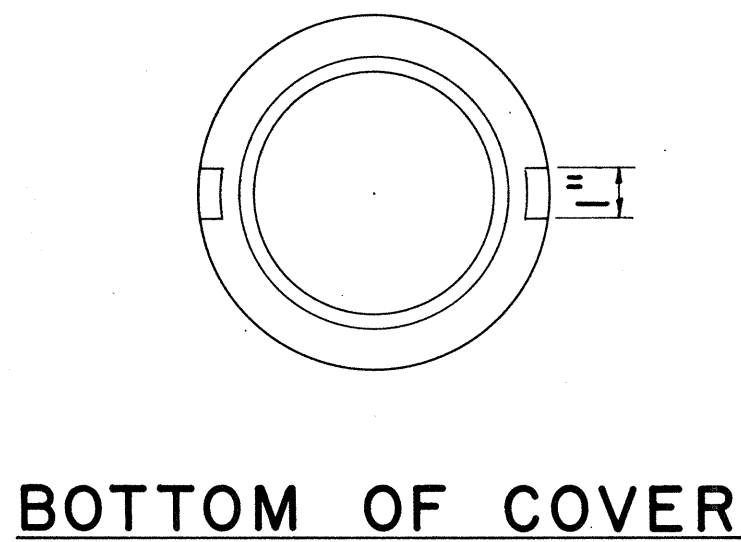
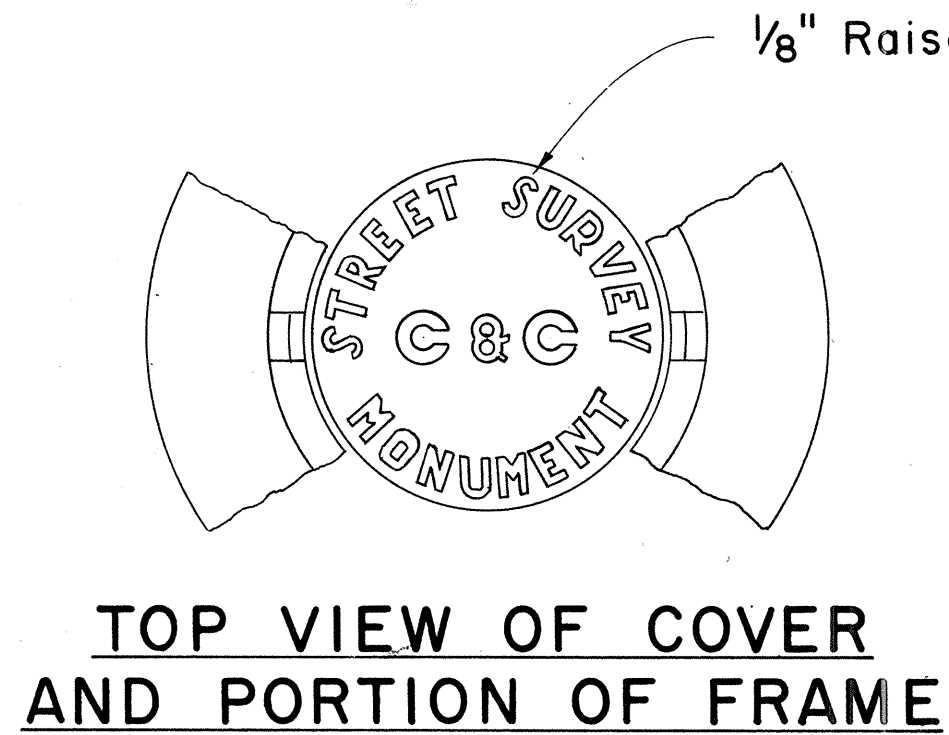
APPROVED:
 ASSISTANT CHIEF, ENGINEERING 12-10-69 DATE

NO.	REVISION	APPROVED BY	DATE

STATE OF HAWAII
 DEPARTMENT OF TRANSPORTATION
 HIGHWAYS DIVISION
STANDARD DETAILS
TYPICAL DETAILS OF CURB
AND/OR GUTTERS
 Scale: As Shown
 SHEET No. 4 OF 10 SHEETS DD 609.1

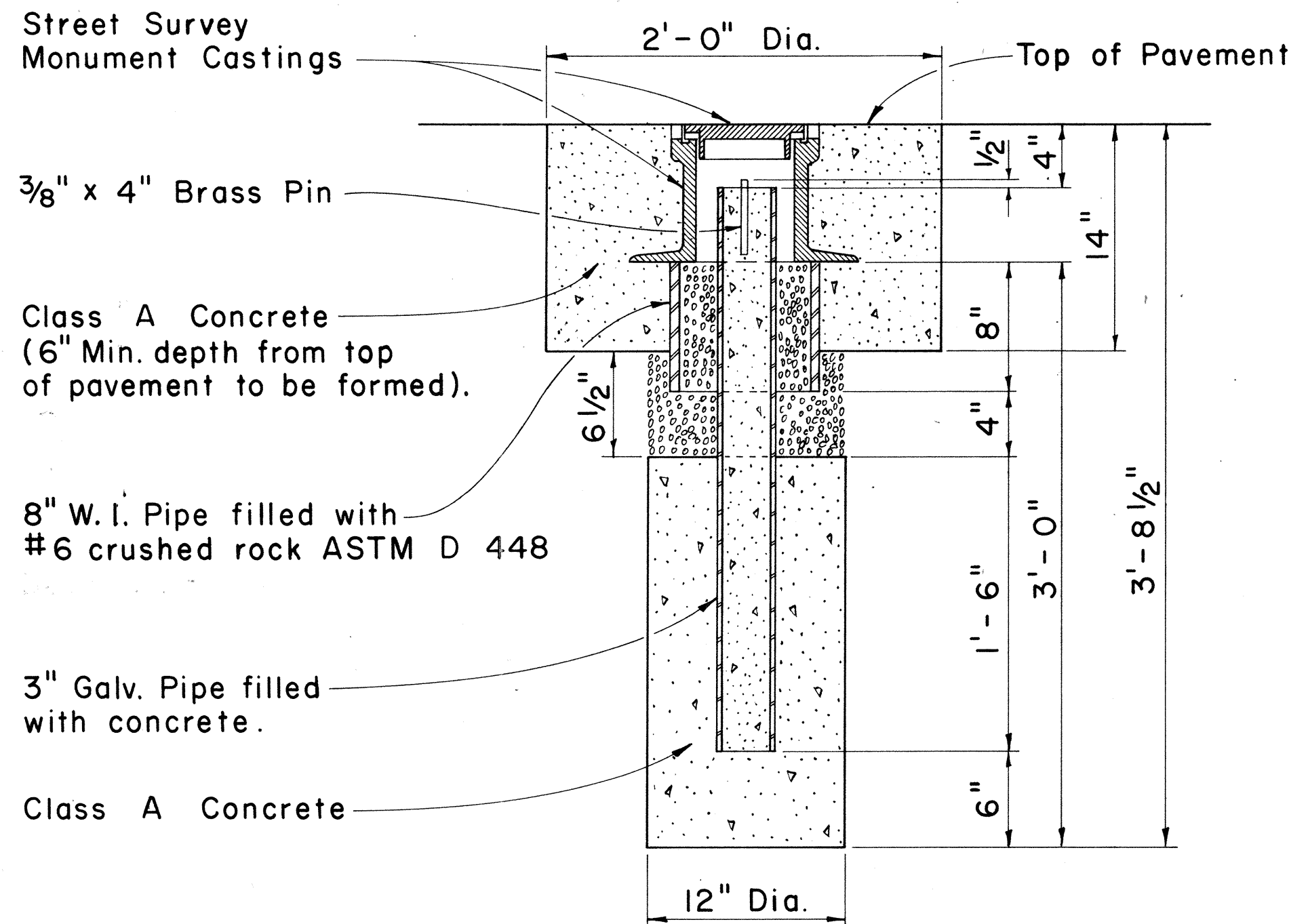
DATE	
SURVEY PLOTTED BY	
DRAWN BY	
DESIGNED BY	
QUANTITIES BY	
CHECKED BY	
ORIGINAL PLAN	
NOTE BOOK	
NO.	

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-H2-I(III)	1973	38	274



STREET SURVEY MONUMENT CASTINGS

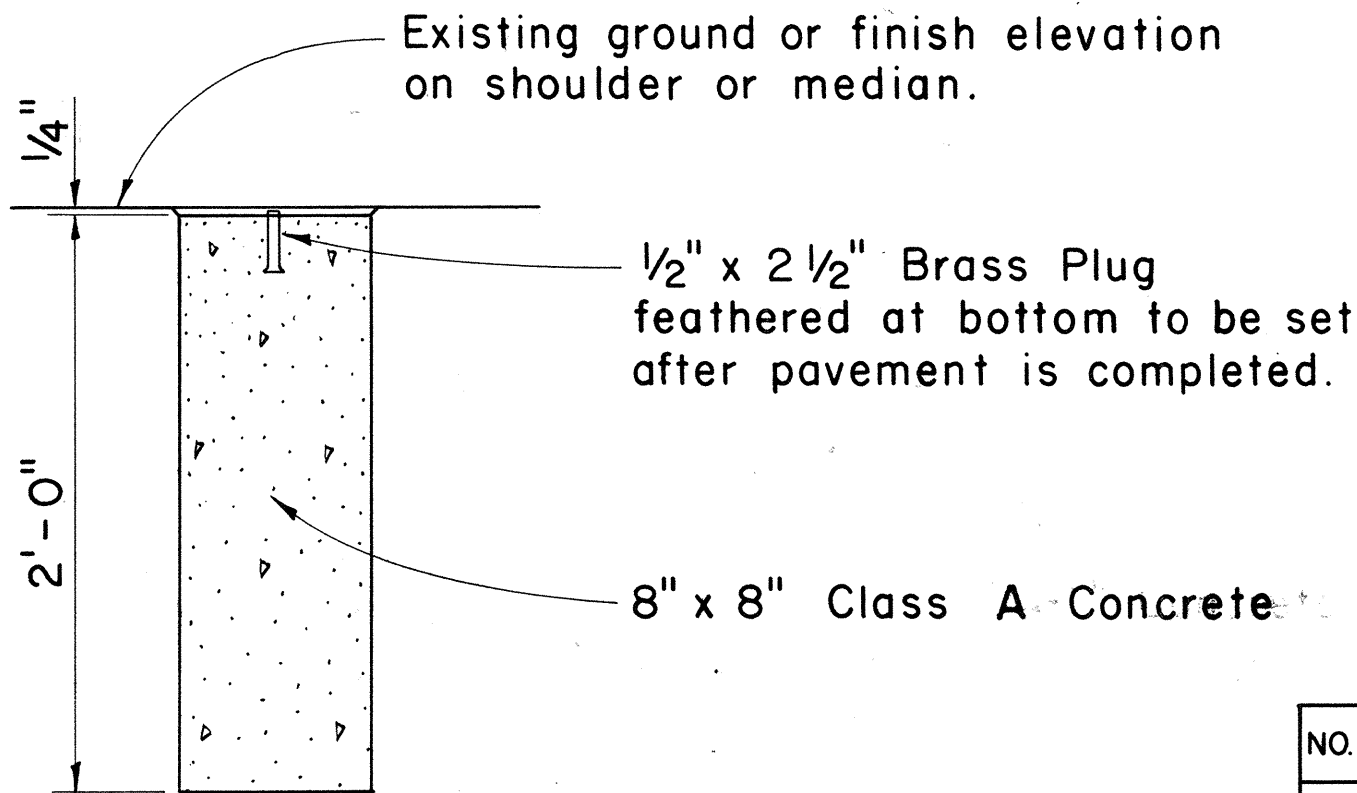
Scale: 3" = 1'-0"



NOTE:
Where the excavation extends into solid rock the depth may be decreased if approved by the Engineer.

STREET SURVEY MONUMENT

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



DETAIL FOR C AND REFERENCE SURVEY MONUMENT

Scale: 1 1/2" = 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

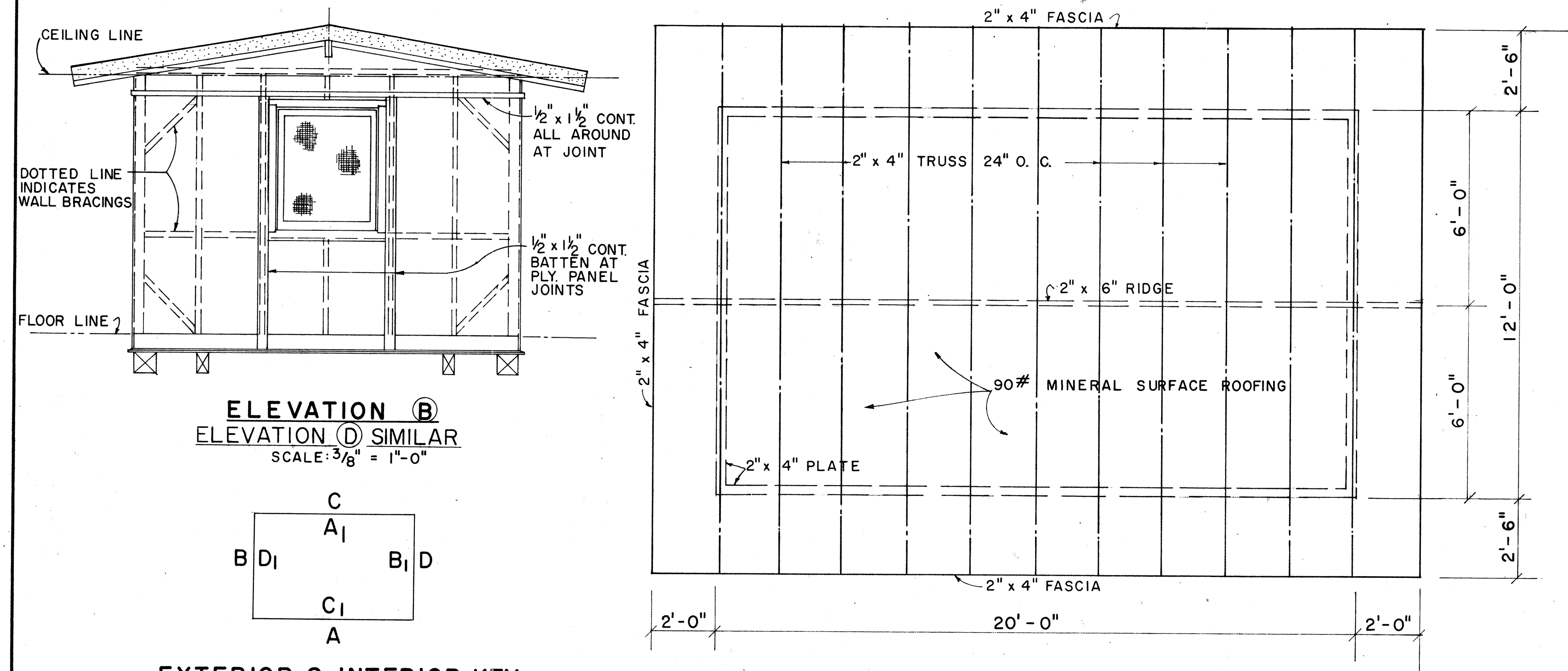
STANDARD DETAILS

CENTERLINE, REFERENCE SURVEY
AND C & C STREET SURVEY
MONUMENTS

Scale: As Shown

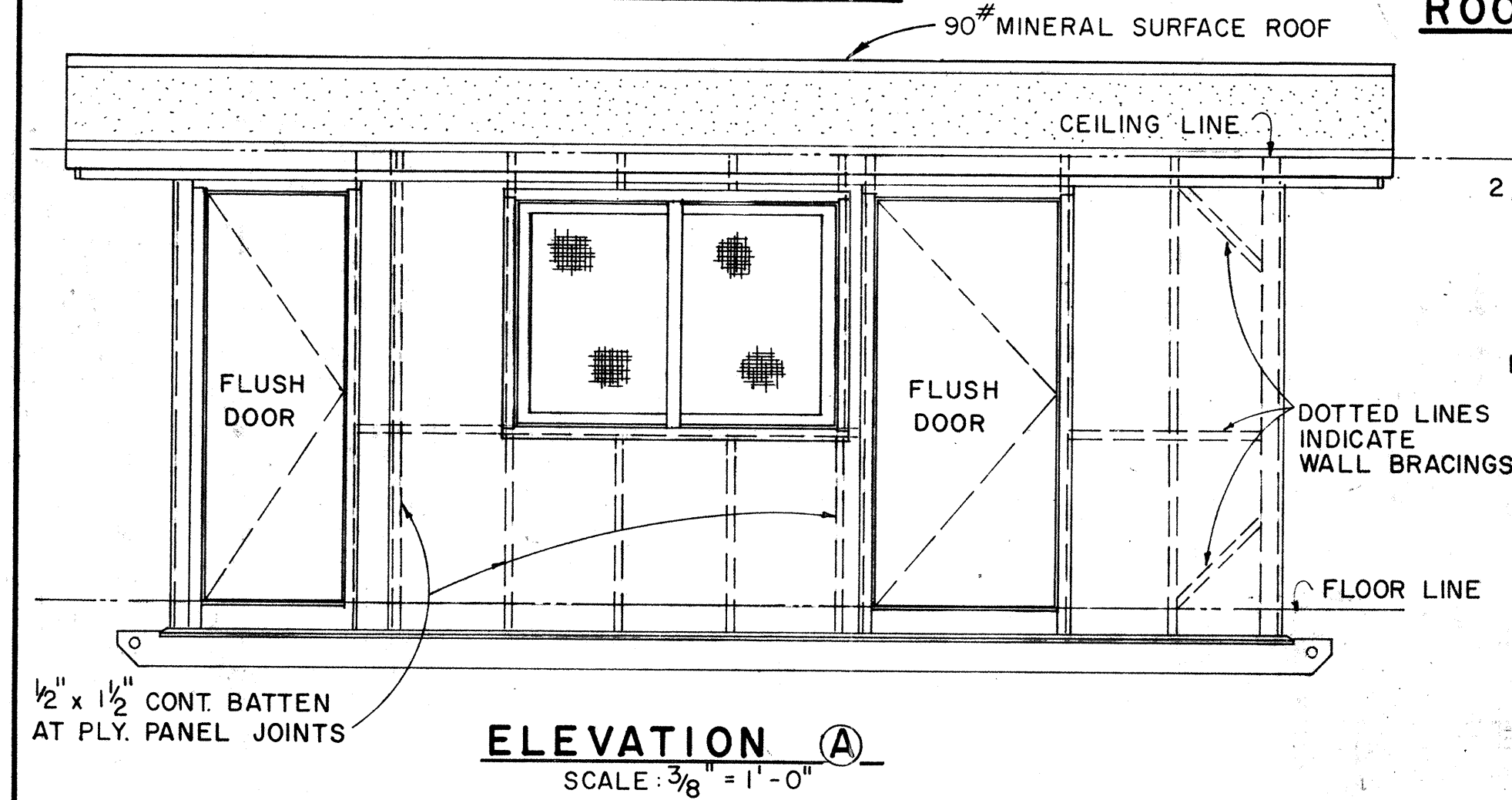
SHEET No. 3 OF 10 SHEETS DD 613.1

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAWAII	1-H2-(I)(II)	1973	39	274



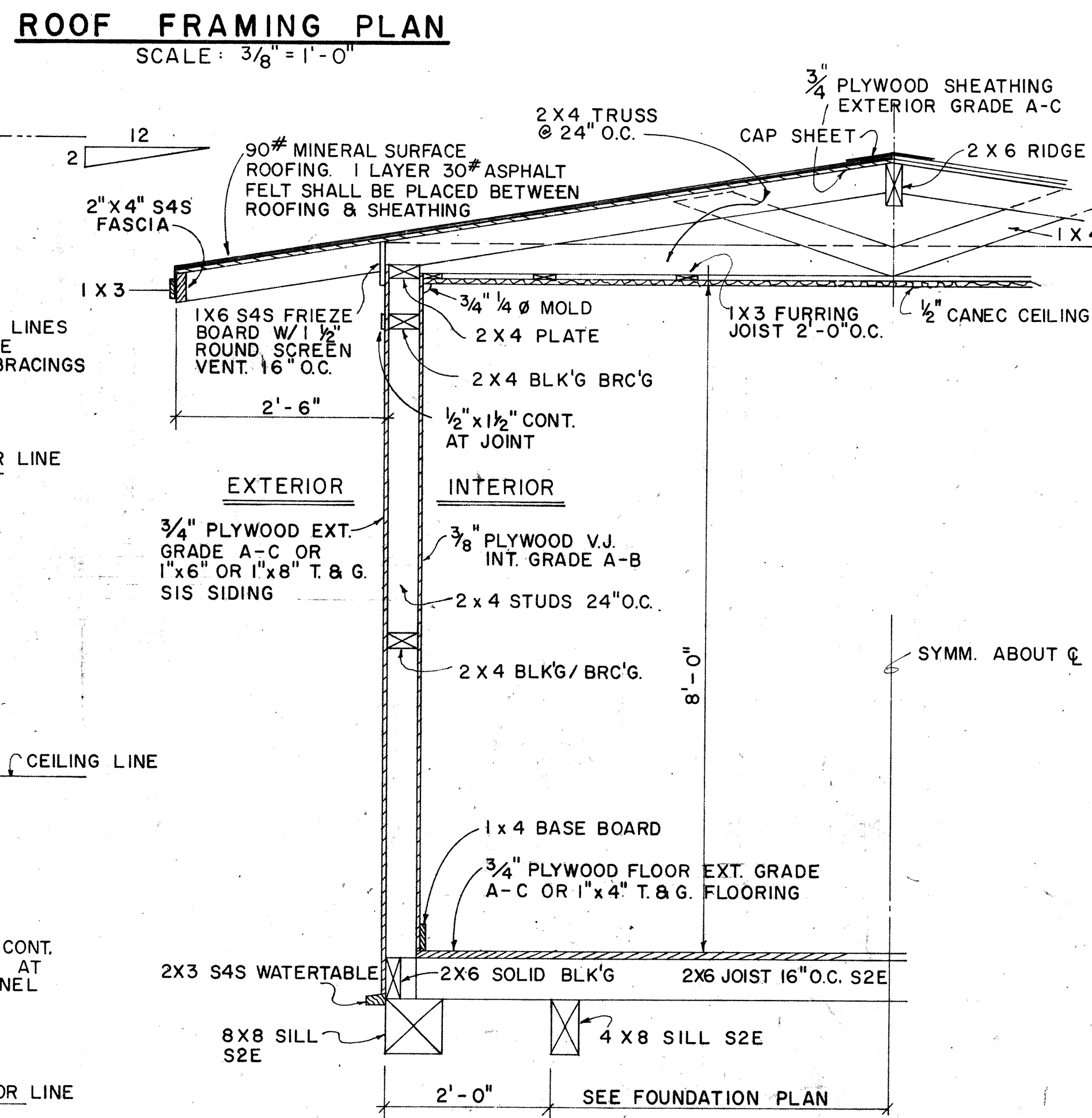
EXTERIOR & INTERIOR KEY

ROOF FRAMING PLAN

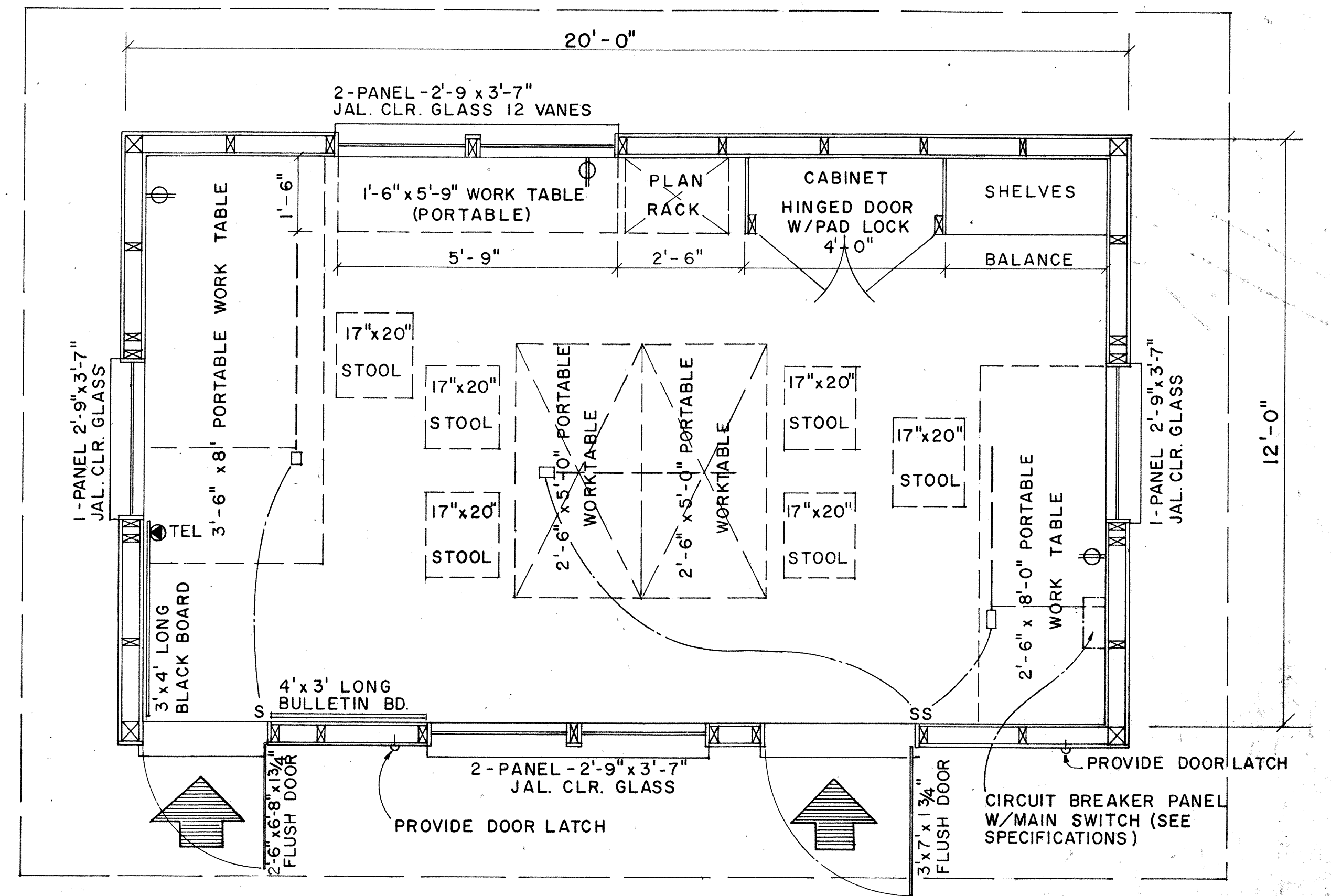


ELEVATION A

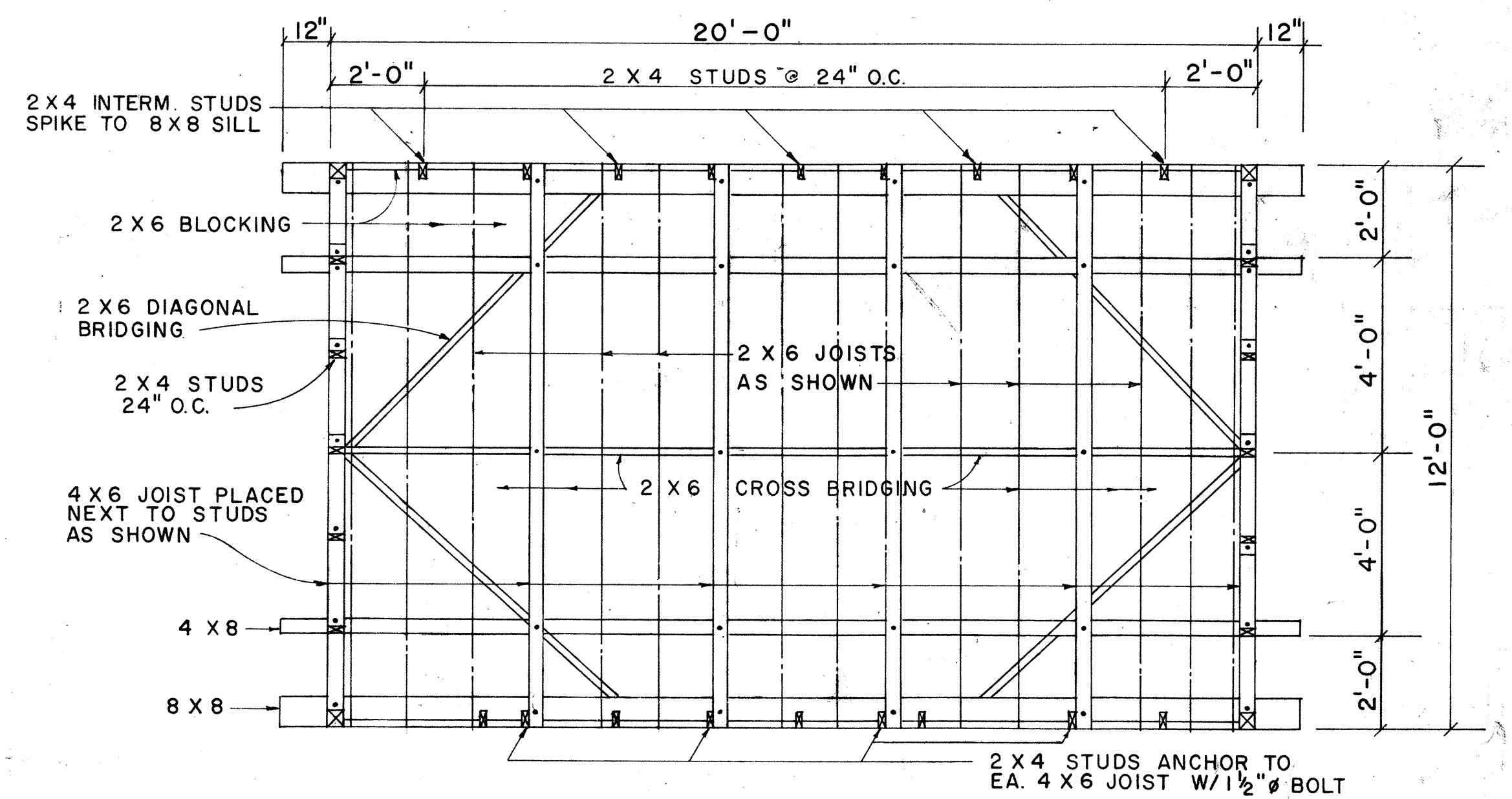
ELEVATION C



TYPICAL WALL SECTION



FLOOR PLAN



FOUNDATION FRAMING PLAN

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

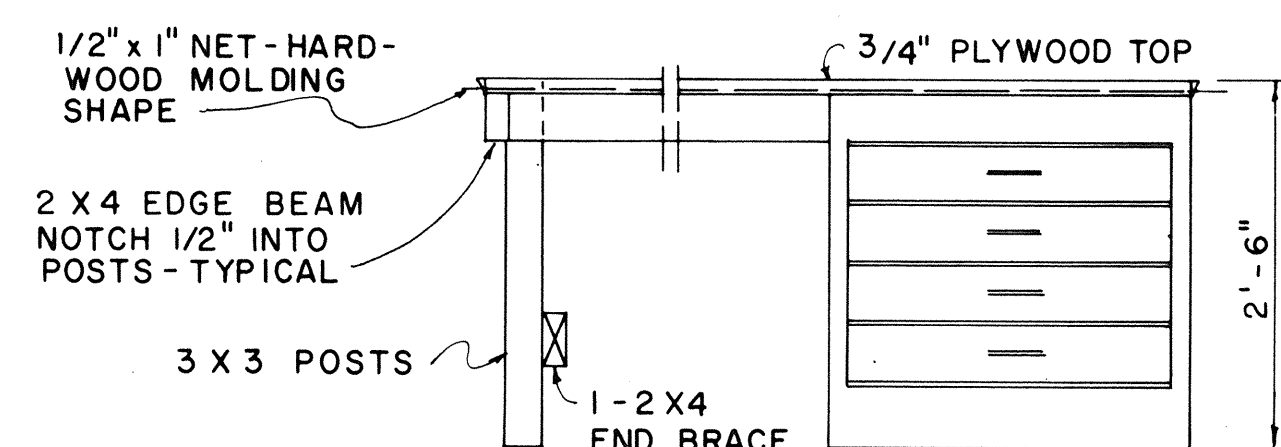
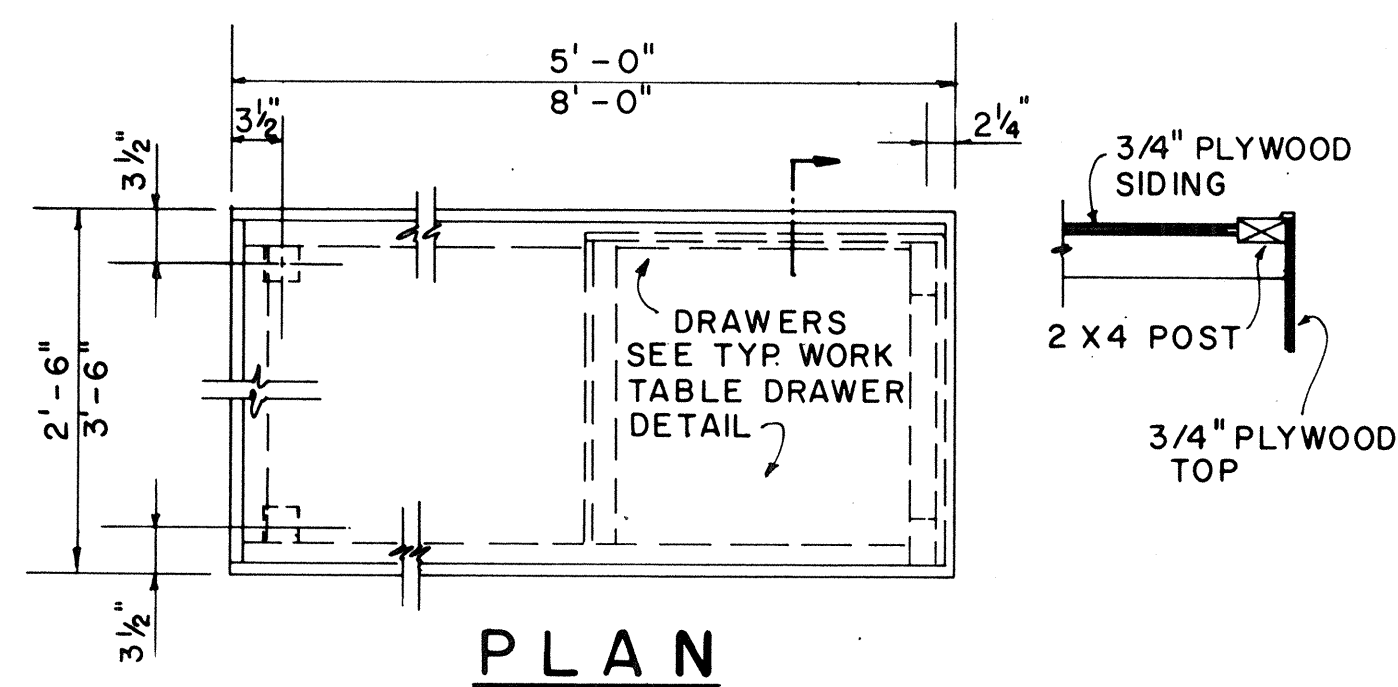
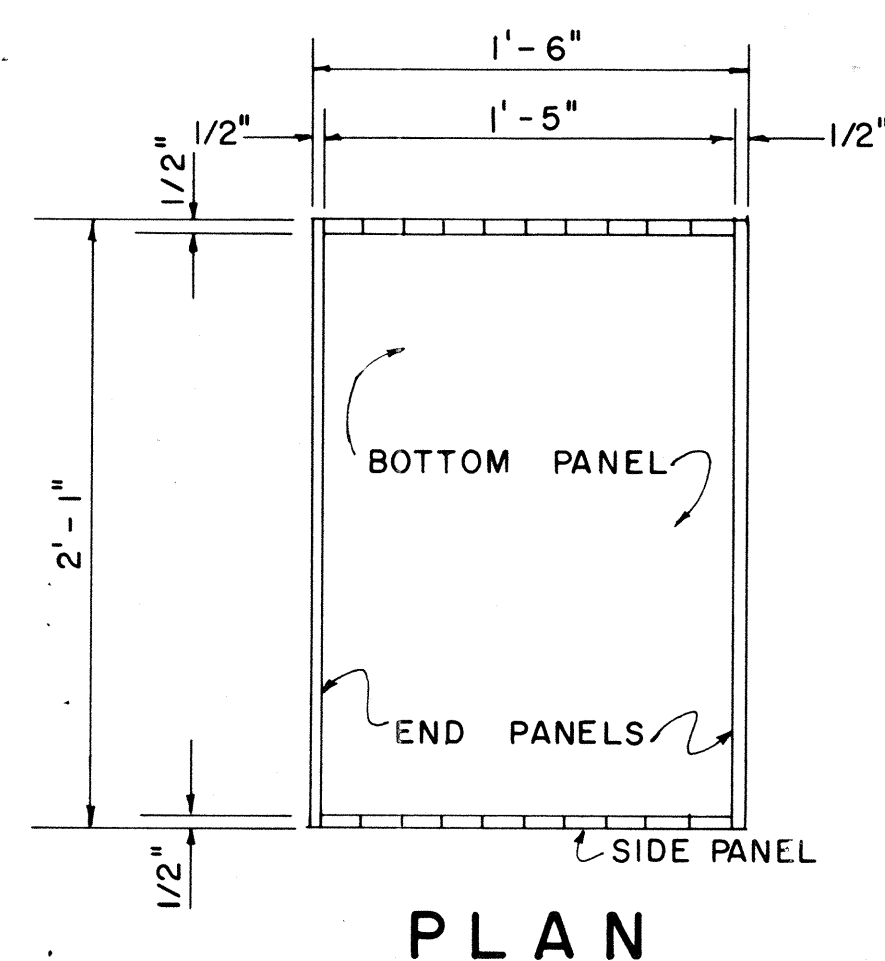
APPROVED:
ASSISTANT CHIEF, ENGINEERING
DATE 12-10-69

NO.	REVISION	APPROVED BY	DATE

STATE OF HAWAII DEPARTMENT OF TRANSPORTATION FIELD OFFICE Scale: As Noted SHEET NO 6 OF 10 SHEETS DD 636.1
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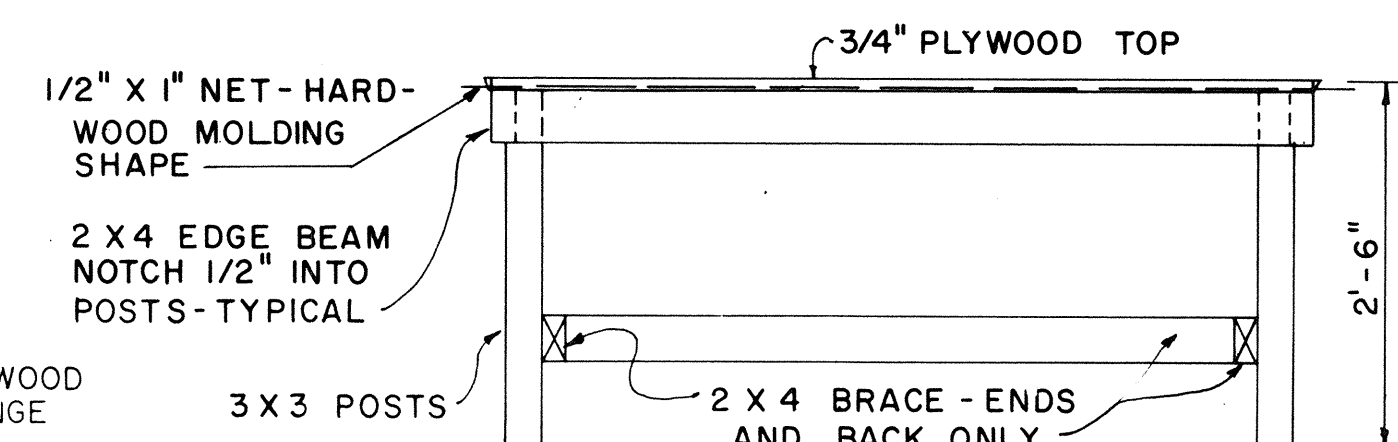
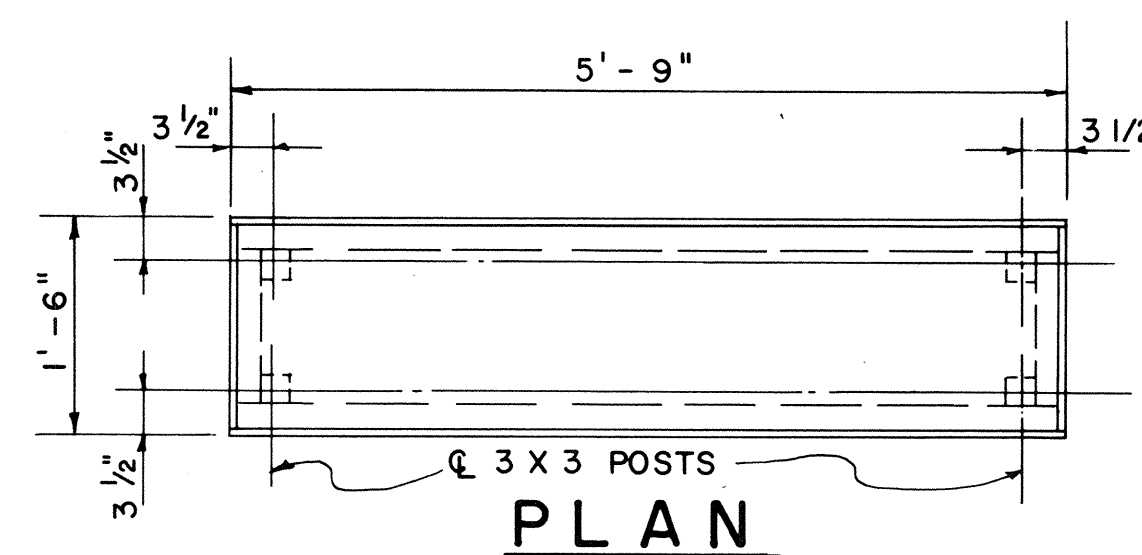
SURVEY PLOTTED BY	DATE
DRAWN BY	
TRACED BY	
QUANTITIES BY	
CHECKED BY	
ORIGINAL PLAN	
NOTE BOOK	
No.	

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAWAII	1-H2-1(11)	1973	40	274

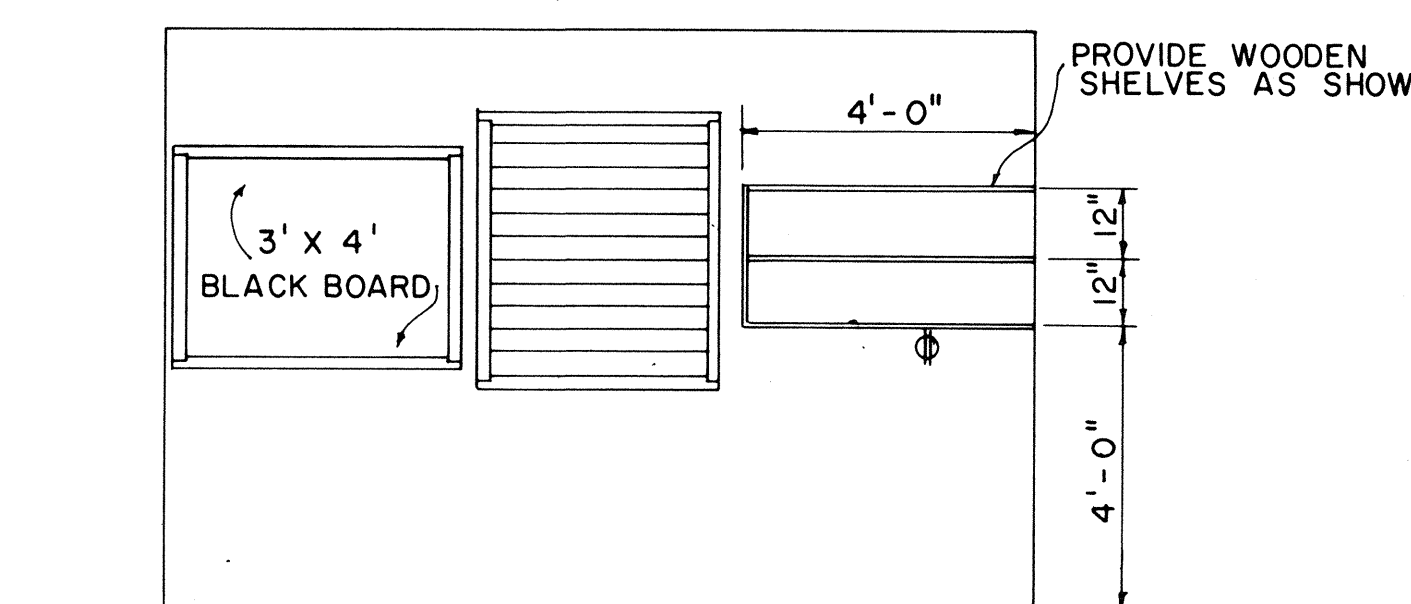


ELEVATION
 2'-6" x 5'-0" 2 REQ'D
 3'-6" x 8'-0" 1 REQ'D
 2'-6" x 8'-0" 1 REQ'D

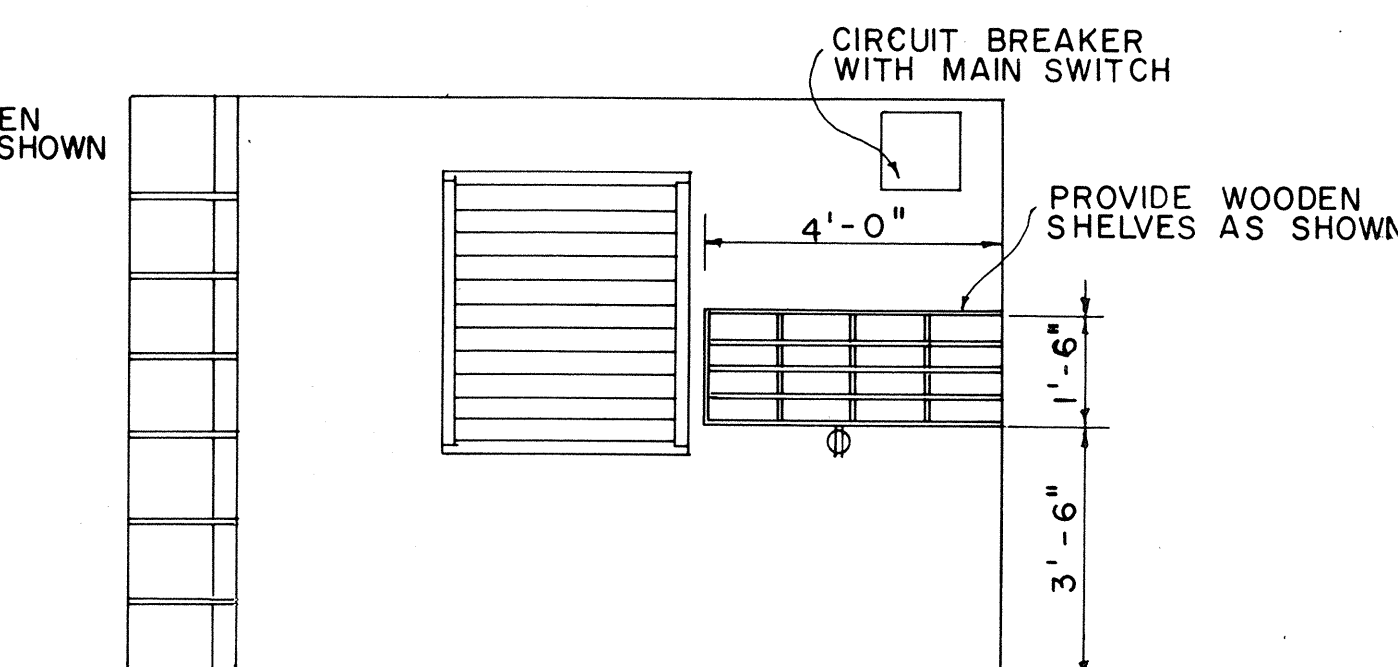
PORTABLE WORK TABLE DETAIL
 SCALE: 3/4" = 1'-0"



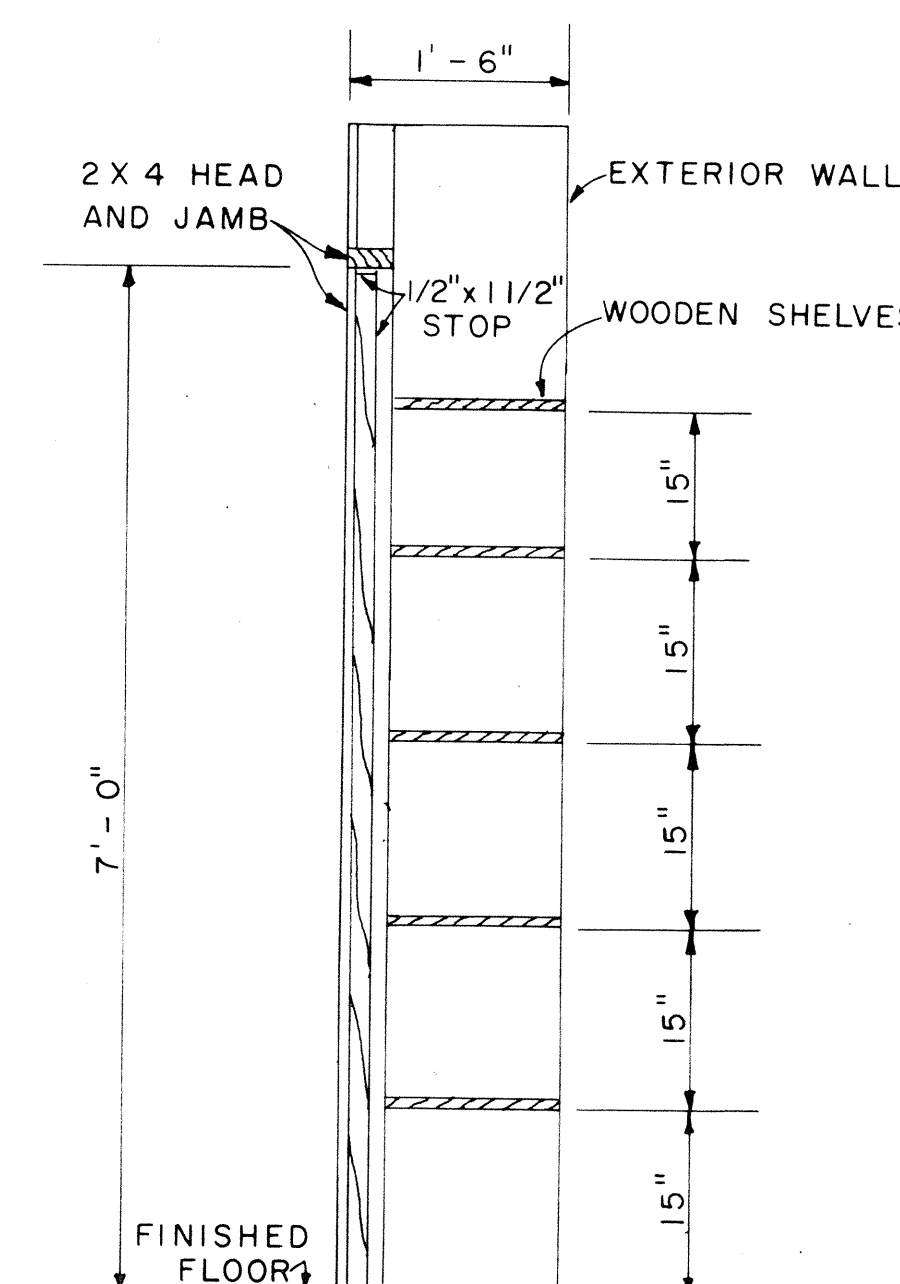
1'-6" x 5'-9" PORTABLE WORK TABLE DETAIL
 SCALE: 3/4" = 1'-0"



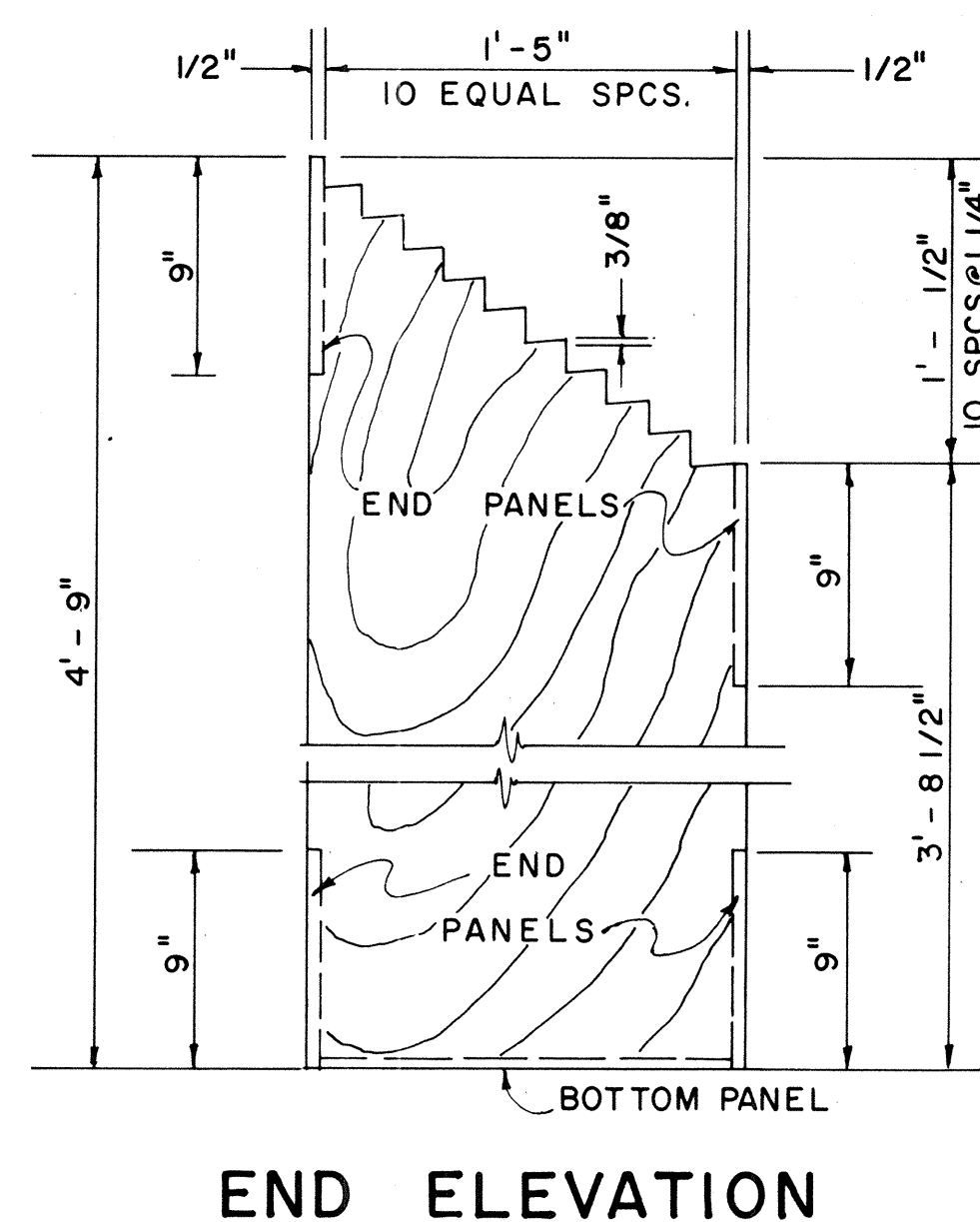
ELEVATION (D)
 SCALE: 3/8" = 1'-0"



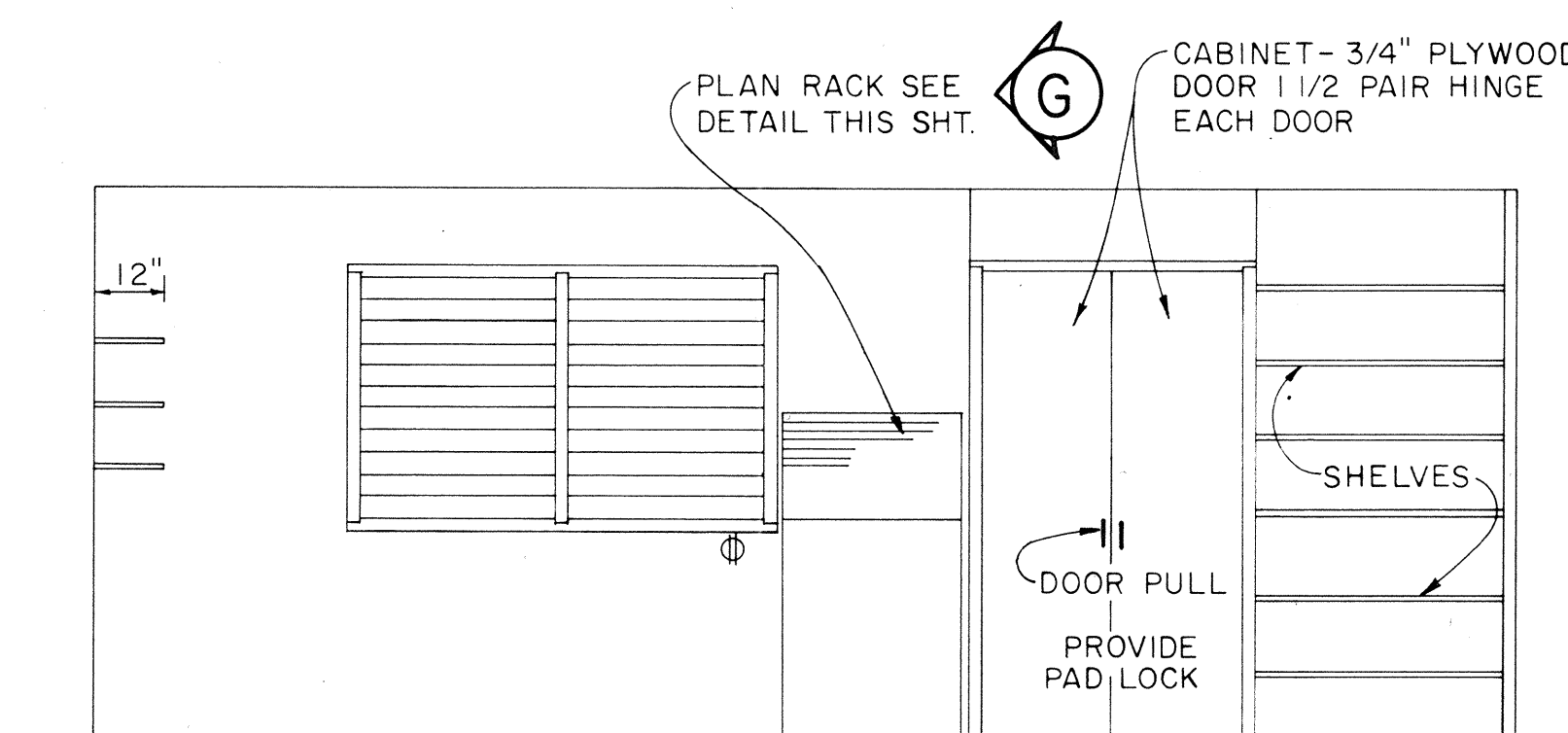
ELEVATION (B)
 SCALE: 3/8" = 1'-0"



SECTION (G)
 SCALE: 3/4" = 1'-0"



PLAN RACK DETAIL
 SCALE: 1 1/2" = 1'-0"
 (ONE REQUIRED)



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

APPROVAL RECOMMENDED:
 HIGHWAY DESIGN ENGINEER 12-4-69 DATE
 APPROVED:
 ASSISTANT CHIEF, ENGINEERING 12-10-69 DATE

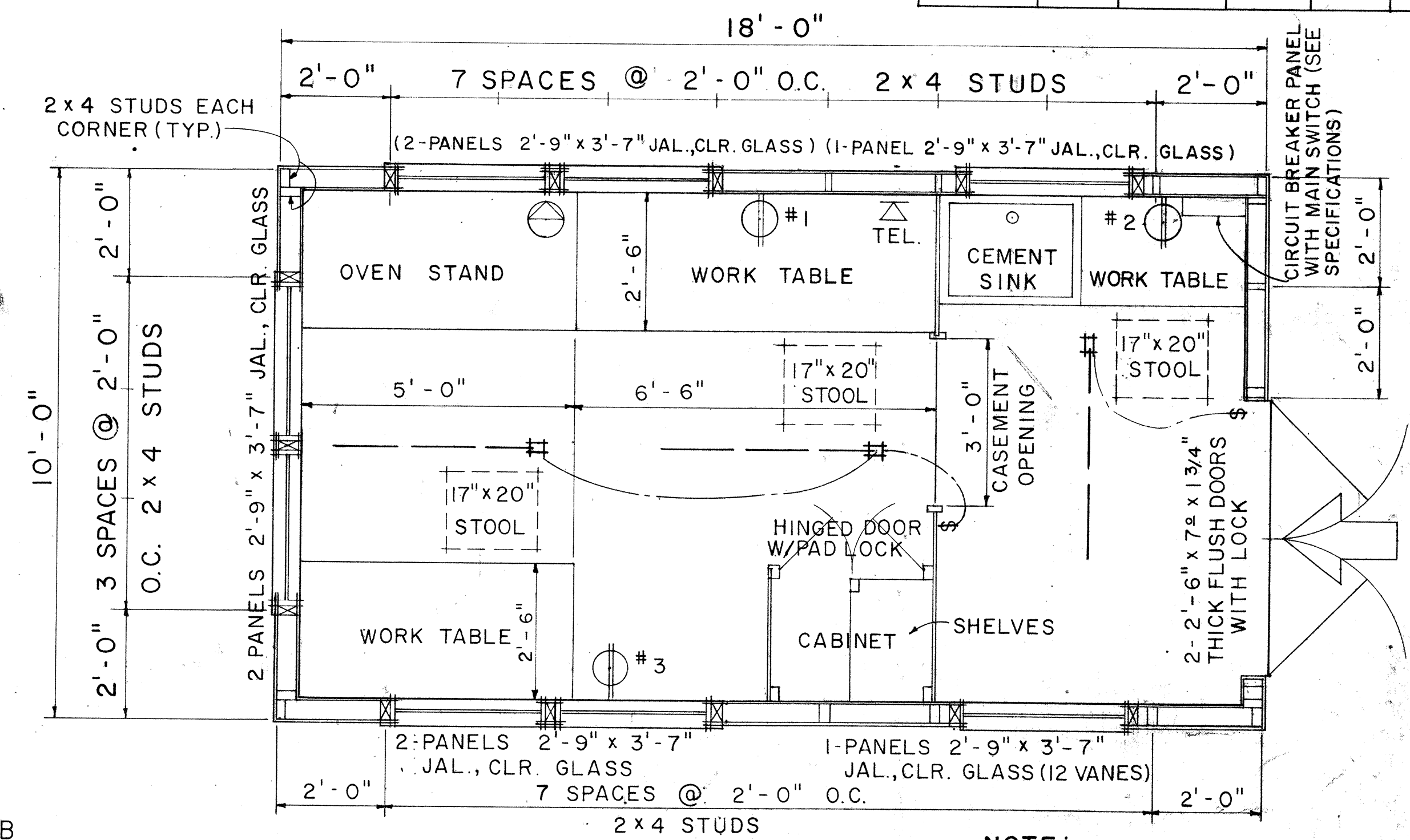
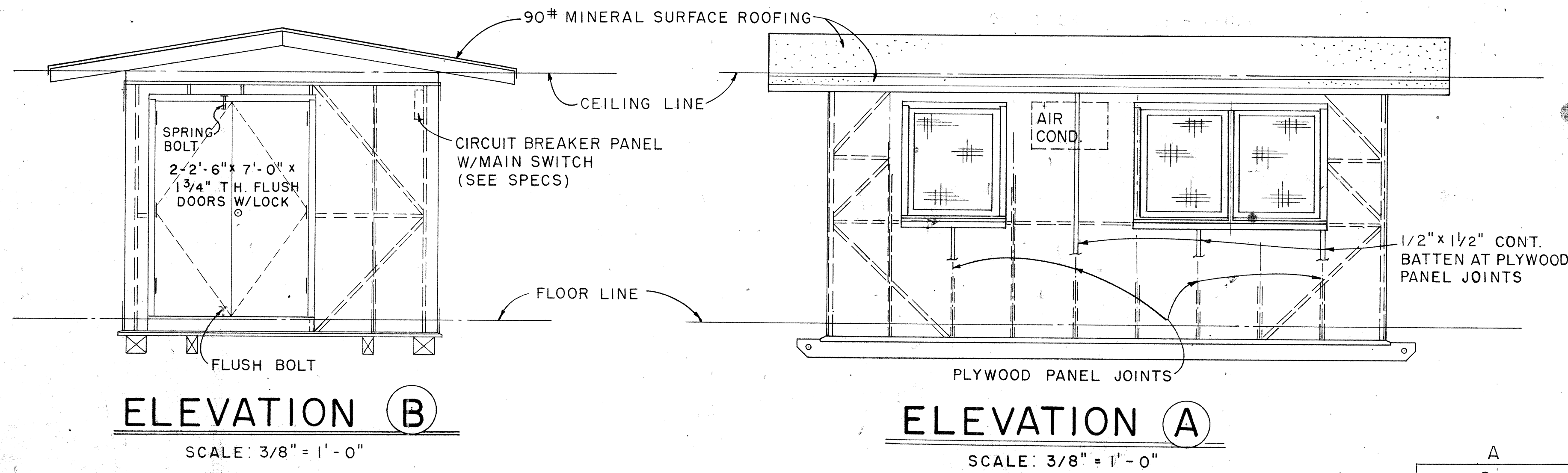
NO.	REVISION	APPROVED BY	DATE

STATE OF HAWAII
 DEPARTMENT OF TRANSPORTATION
 HIGHWAYS DIVISION
 FIELD OFFICE

Scale: As Noted

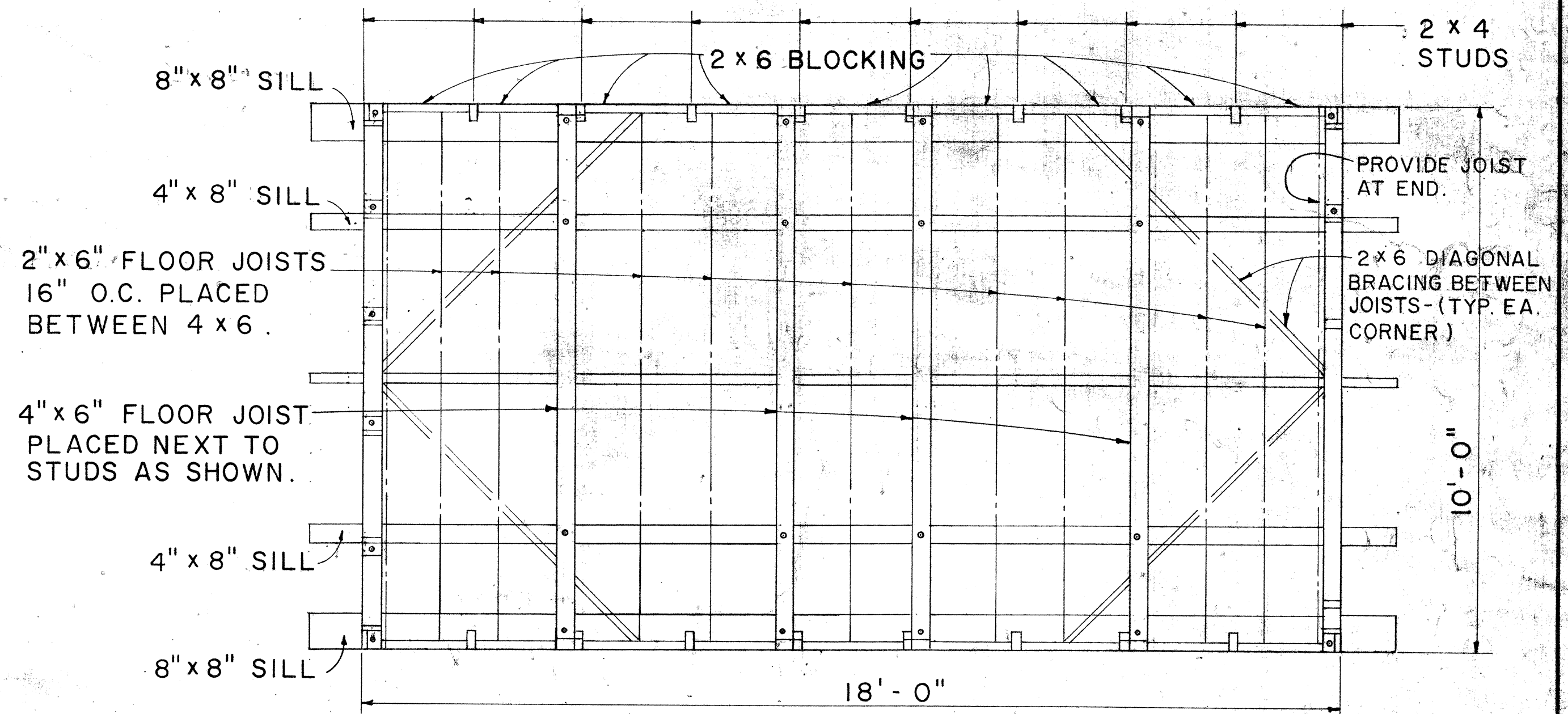
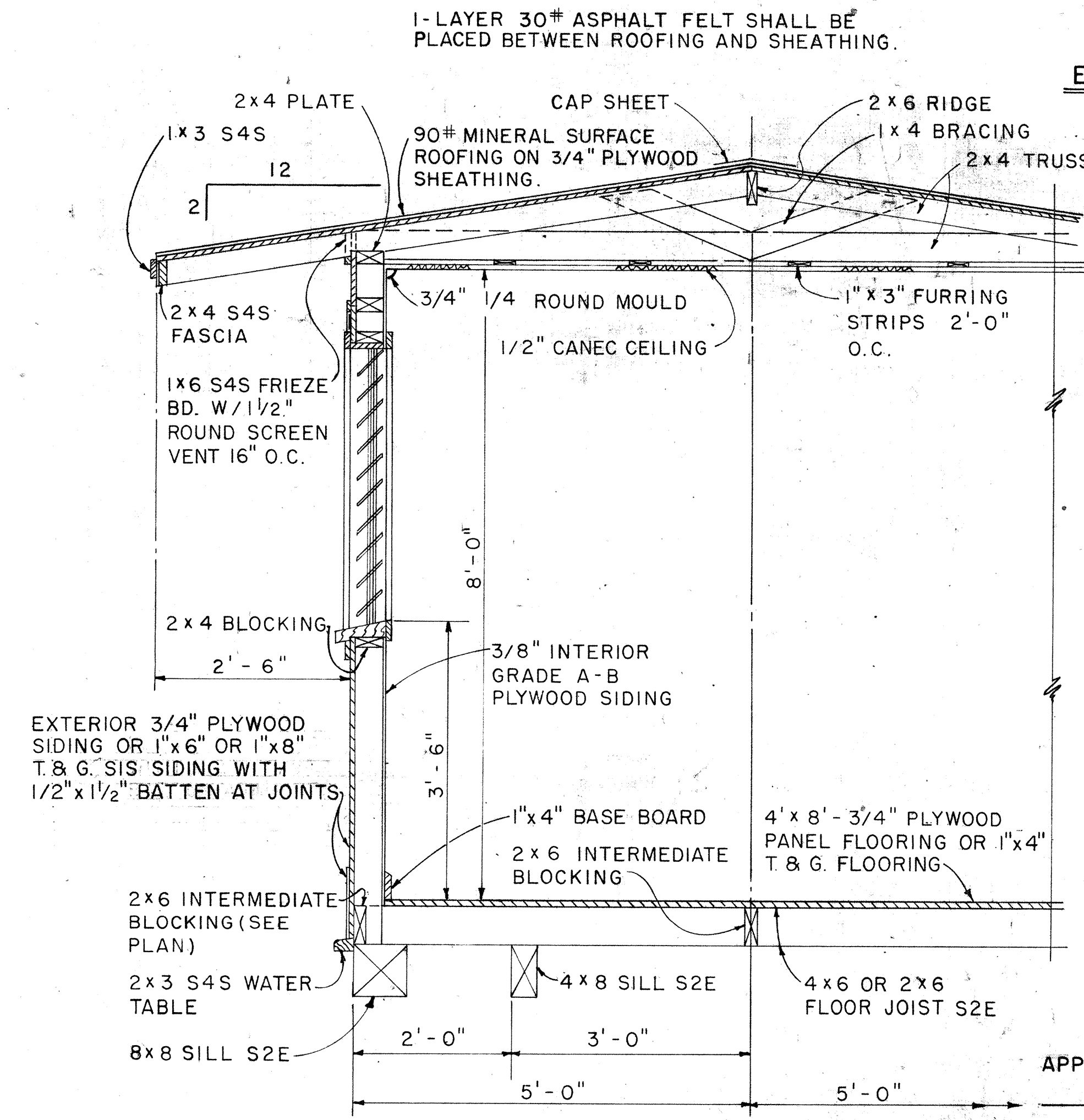
SURVEY PLOTTED BY	DATE
PLAN	
DESIGNED BY	
NOTE BOOK	
QUANTITIES BY	
CHECKED BY	

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	1-H2-1(11)	1973	41	274



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

EXTERIOR & INTERIOR KEY



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

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
HIGHWAYS DIVISION

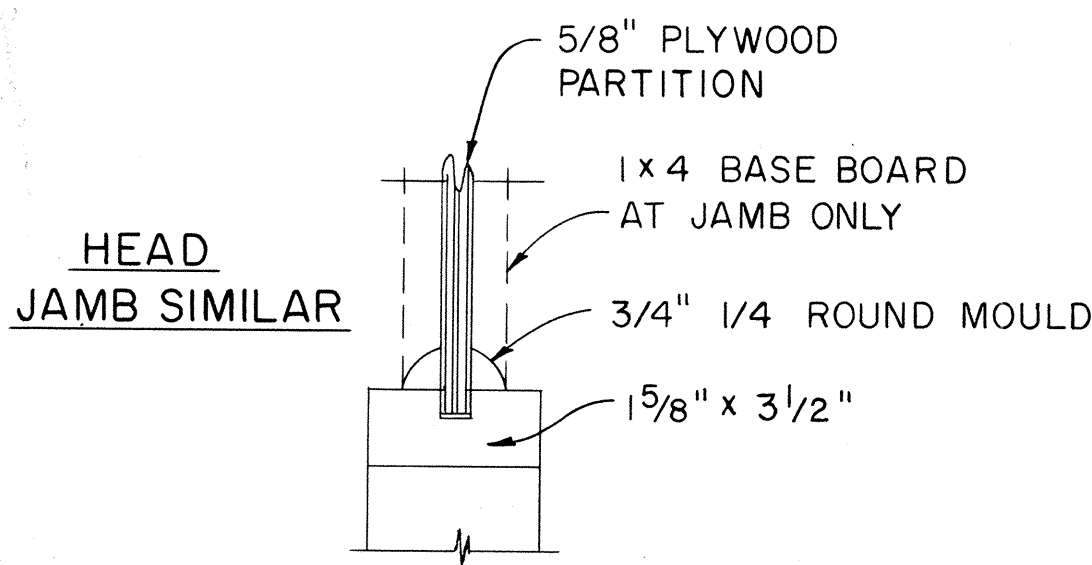
PROJECT SITE LABORATORY

Scale: As Noted

SHEET No. 8 OF 10 SHEETS DD 636.3

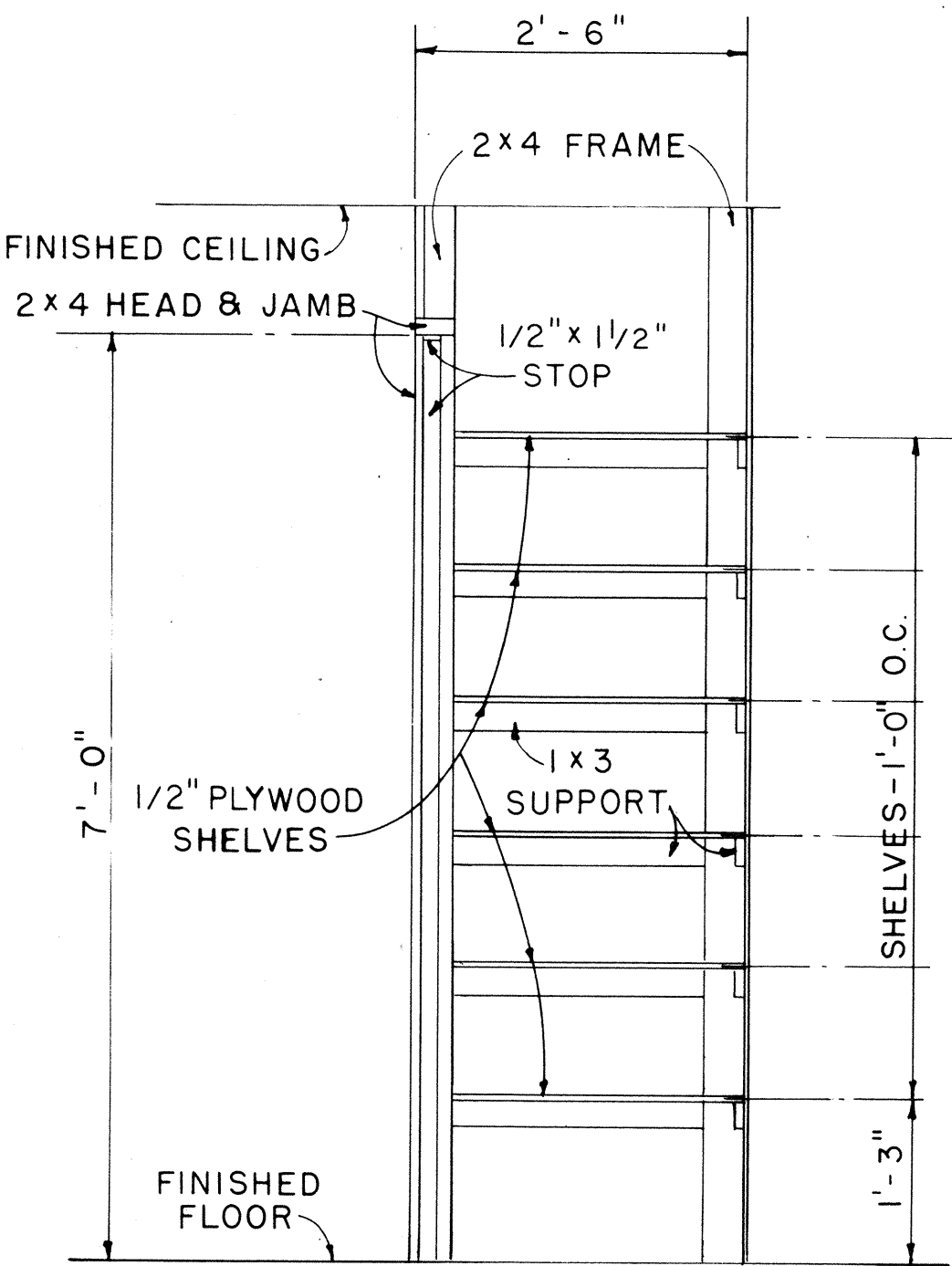
DATE	
SURVEY PLOTTED BY	
DRAWN BY	
TRACED BY	
QUANTITIES BY	
CHECKED BY	
ORIGINAL PLAN	
NOTE BOOK	
No.	

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	1-H2-(III)	1973	42	274



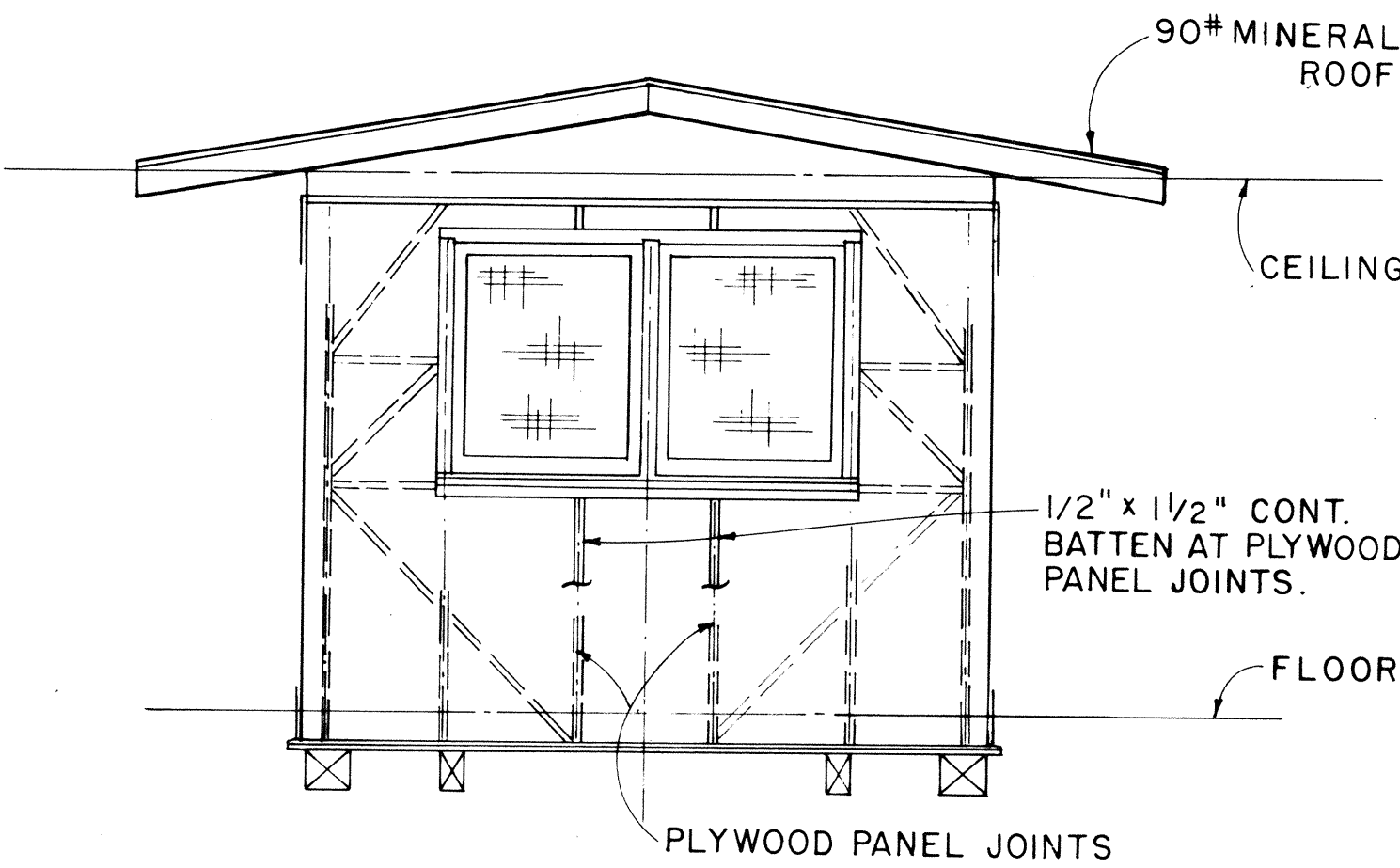
CASEMENT DETAIL

SCALE: 3" = 1'-0"



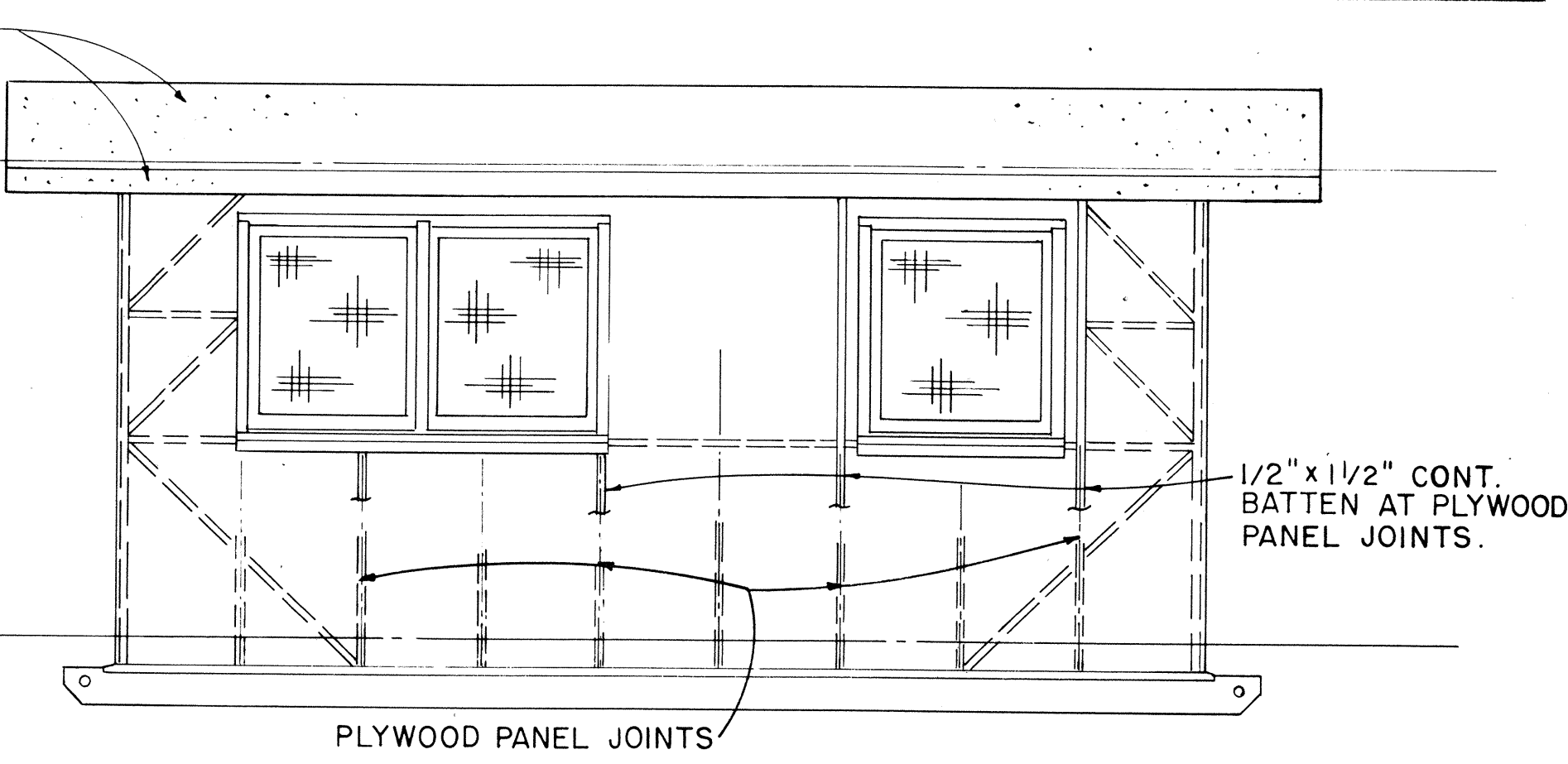
CABINET DETAIL

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



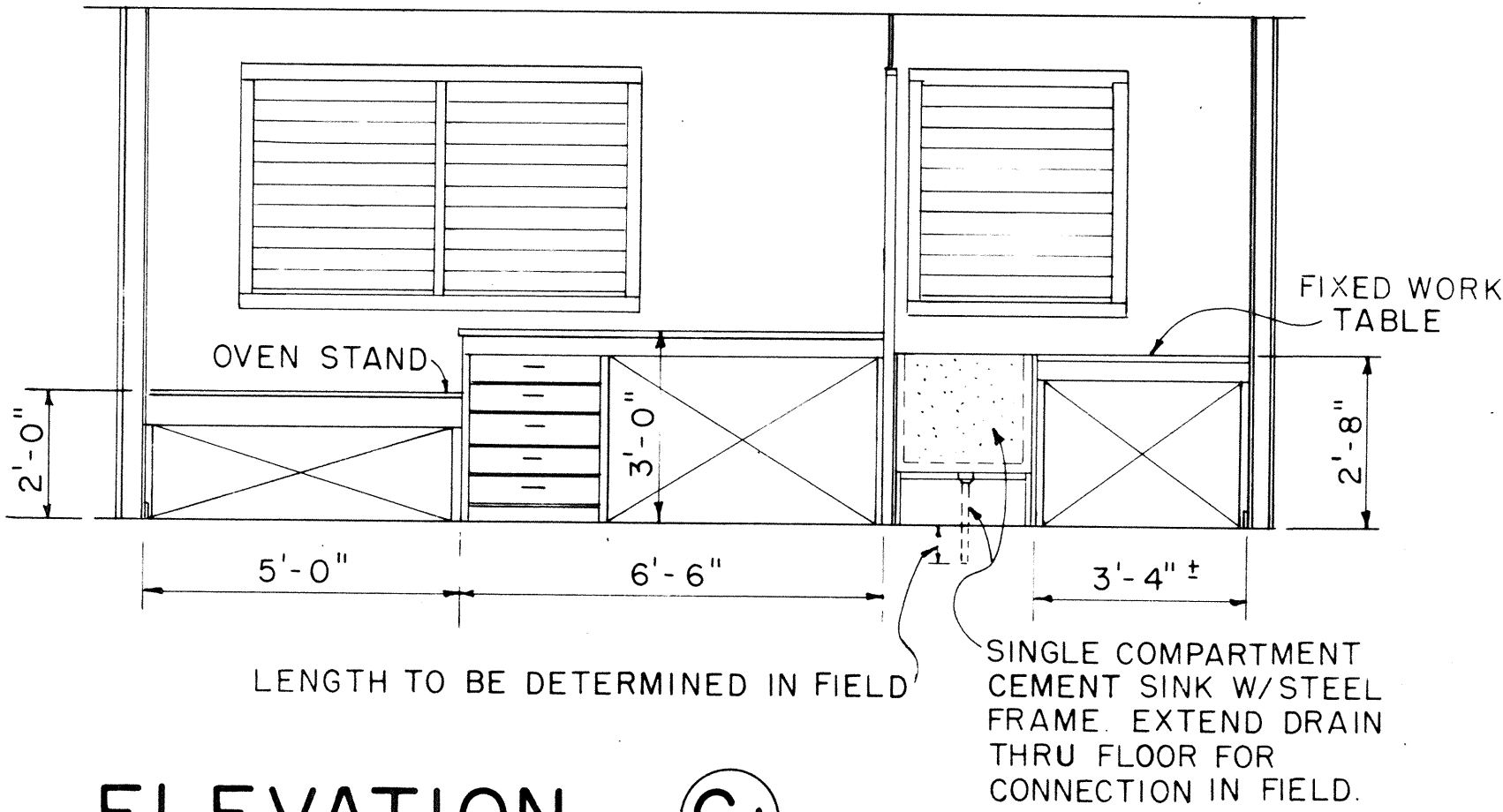
ELEVATION D

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



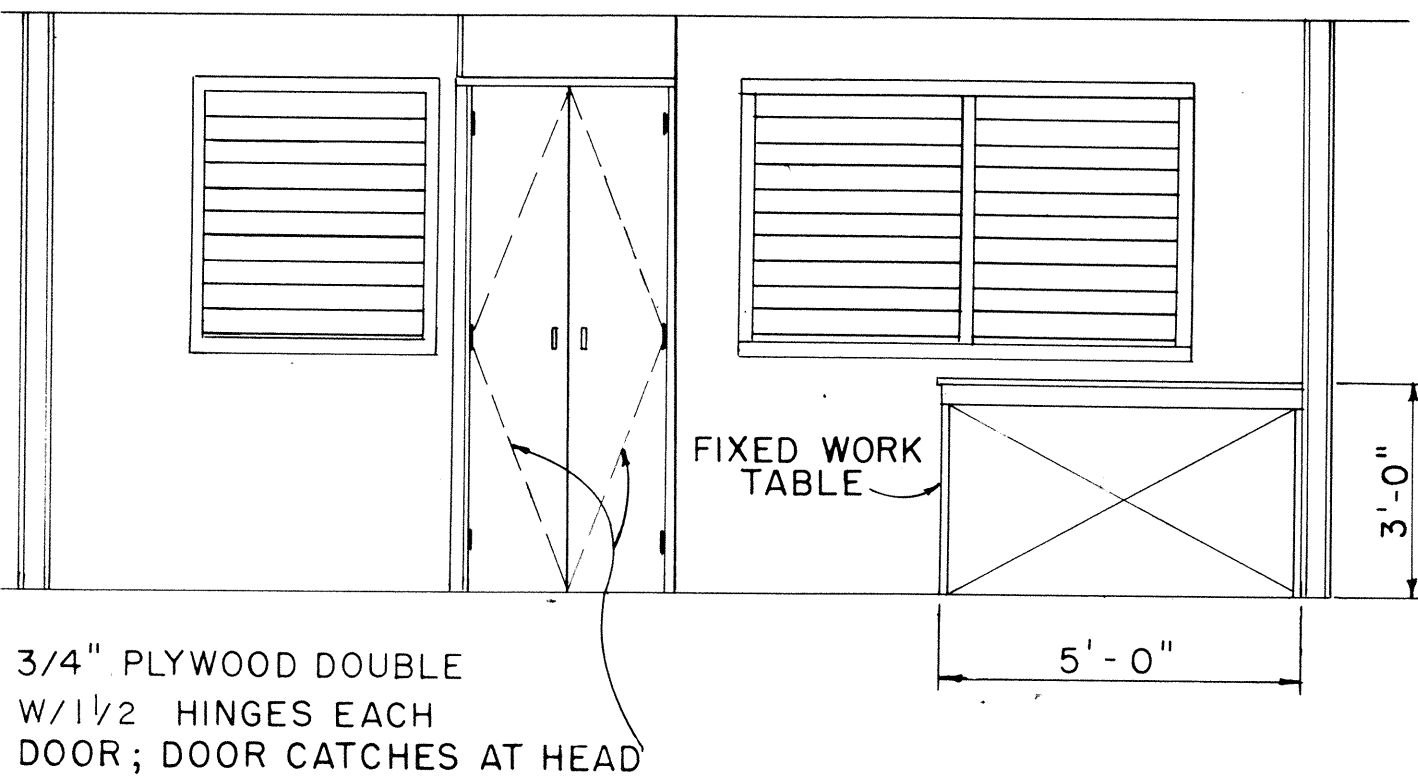
ELEVATION C

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



ELEVATION C1

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



ELEVATION A1

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

DATE	_____
SURVEY PLOTTED BY	_____
DRAWN BY	_____
DESIGNED BY	_____
CHECKED BY	_____
NOTE BOOK	_____
No.	_____

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

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

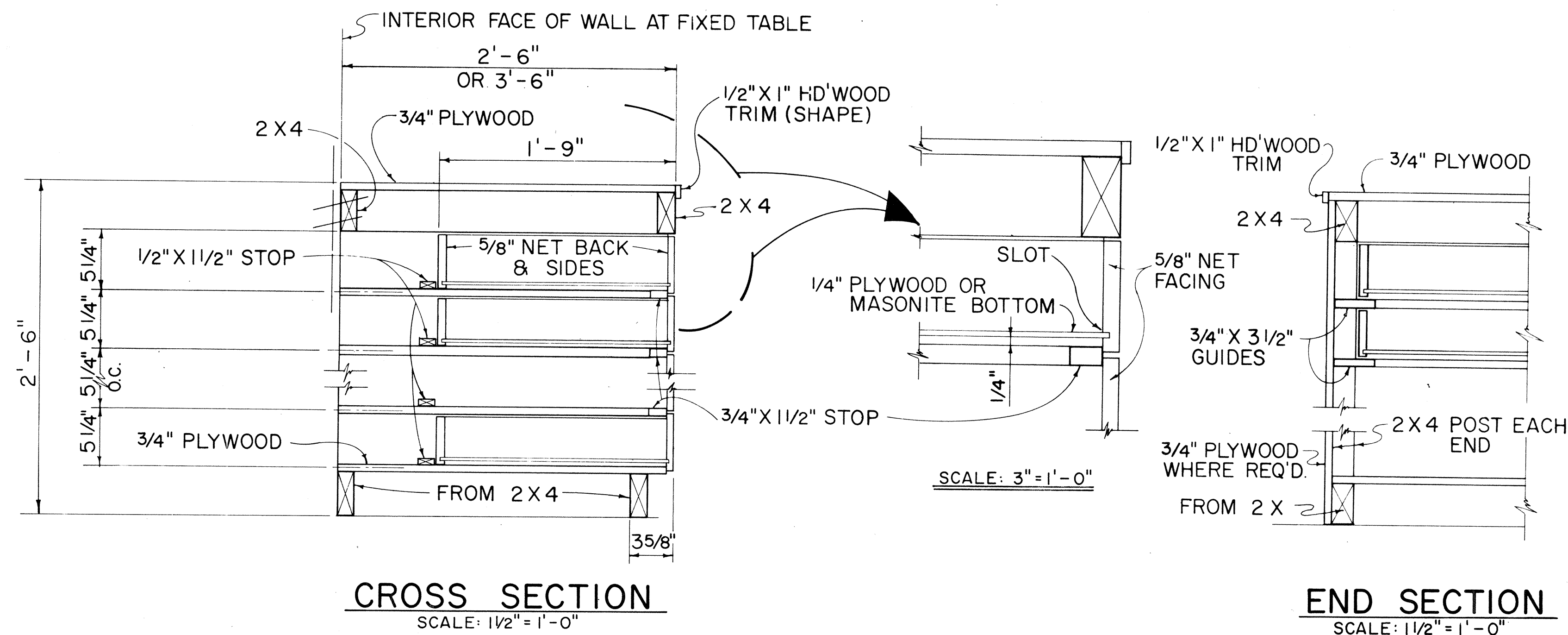
NO.	REVISION	APPROVED BY	DATE

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

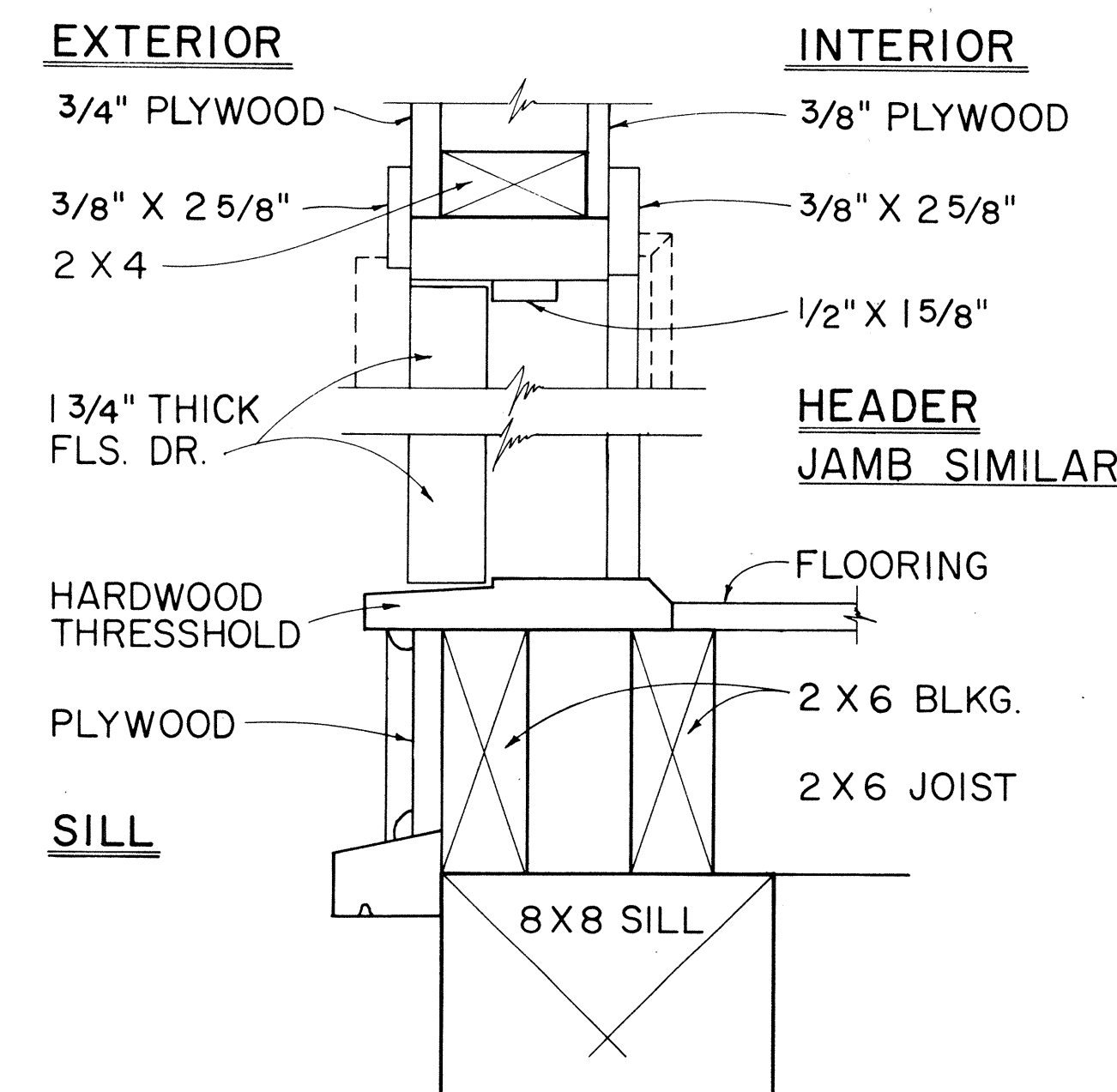
PROJECT SITE LABORATORY

Scale: As Noted

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAWAII	1-H2-1(11)	1973	43	274

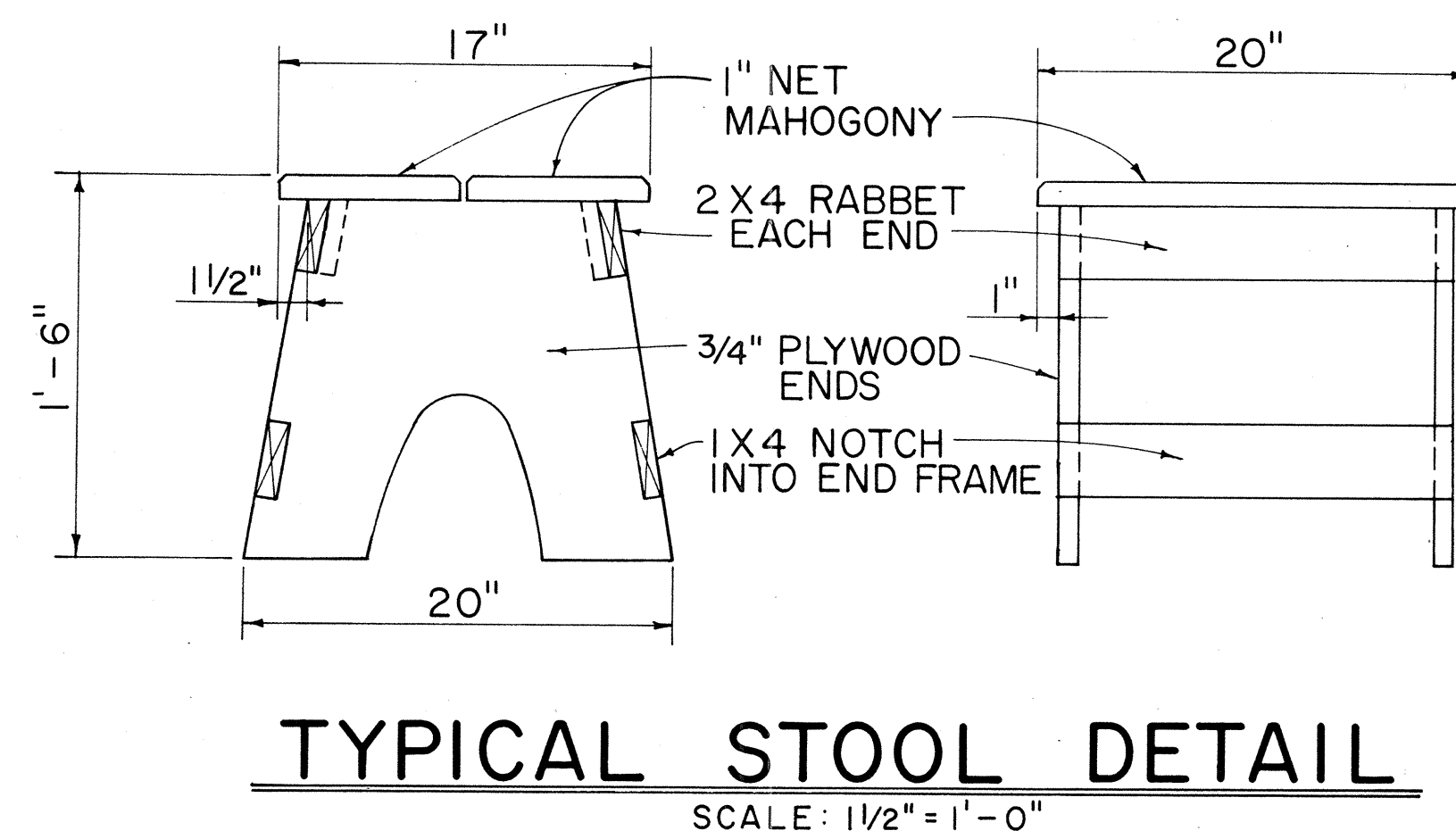


TYPICAL WORK TABLE DRAWER DETAIL

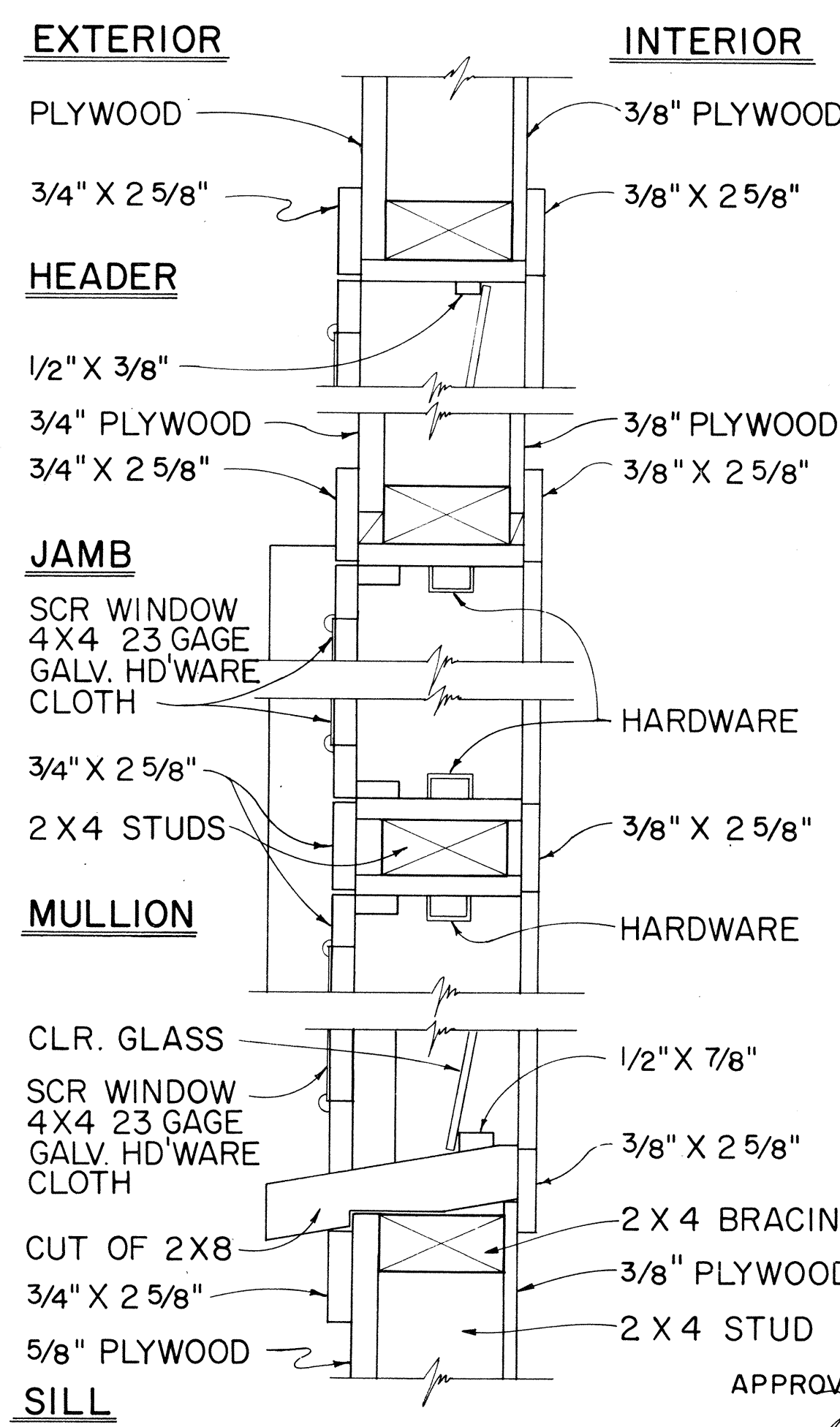


TYP. SWING OUT DOOR

TYPICAL SINGLE OR DOUBLE EXTERIOR DOOR DETAIL



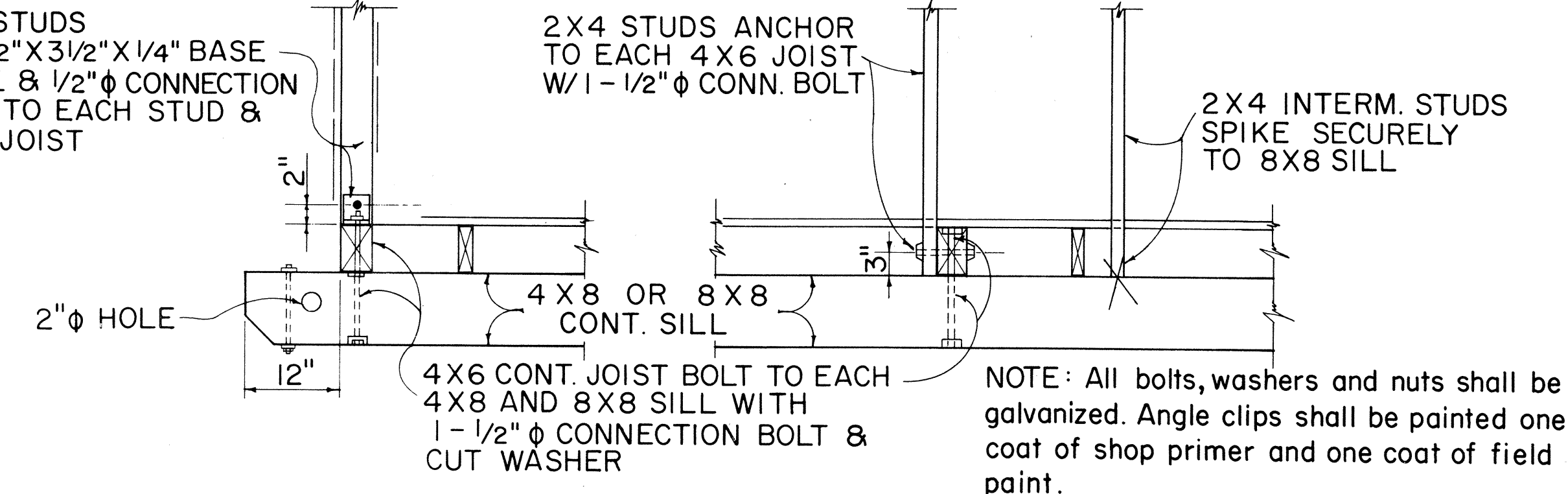
NOTE: CONTRACTOR MAY WITH THE APPROVAL OF THE ENGINEER FURNISH THE FIELD OFFICE OR PROJECT SITE LABORATORY WITH STOOLS OTHER THAN THE TYPE SHOWN IN THE DETAIL.



TYPICAL DETAIL JALOUSIES WINDOWS
SCALE: 3" = 1'-0"

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

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



TYPICAL 2 X 4 STUD & 4 X 6 FLOOR JOIST BASE CONNECTION DETAILS

NO.	REVISION	APPROVED BY	DATE

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

FIELD OFFICE
&
PROJECT SITE LABORATORY

Scale: As Noted

SHEET No. 10 OF 10 SHEETS DD 636.5