FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-HI-1(9):4	1973	17	122

LIST OF GUARD RAILS

LOCATION	ITEM NO. 507.90 MED. BARRIER ON STRUCT. L.F.	ITEM NO. 606.311 GUARD RAIL TYPE 3 L.F.	ITEM NO. 606.410 GUARD RAIL TYPE 4A L.F.	ITEM NO. 606.411 GUARD RAIL TYPE 4B L.F.	ITEM NO. 606.416 GUARD RAIL TYPE 4F L.F.	ITEM NO. 606.417 GUARD RAIL TYPE 4G L.F.
I.B. ℄ Sta. 222+25 to I.B. ℄ Sta. 222+90					65.0	
I.B. ℄ Sta. 222+90 to I.B. ℄ Sta. 224+78						188.0
I.B. ℄ Sta. 224+78 to I.B. ℄ Sta. 224+81.72					4.0	
℄ Sta. 246+50 to ℄ Sta. 246+53.50 (Rt.)					3.5	
℄ Sta. 246+53.50 to ℄ Sta. 247+90						136.5
O.B. ℄ Sta. 223+20 to O.B. ℄ Sta. 224+00					80.0	
O.B. ℄ Sta. 224+00 to O.B. ℄ Sta. 224+81						81.0
O.B. ℄ Sta. 224+81 to O.B. ℄ Sta. 224+88.12					7.0	
℄ Sta. 246+50 to ℄ Sta. 246+53.50 (Lt.)					3.5	
℄ Sta. 246+53.50 to ℄ Sta. 247+50						96.5
℄ Sta. 247+50 to ℄ Sta. 248+00					50.0	
I.B. ℄ Sta. 223+00 to I.B. ℄ Sta. 225+21.72			222.0			
℄ Sta. 246+10 to ℄ Sta. 248+00				190.0		
Rehab. Road "A"		420.0				
℄ Sta. 225+21.72 to ℄ Sta. 246+10	1,910.0					
TOTAL	1,910.0	420.0	222.0	190.0	213.0	502.0

LIST OF CENTERLINE & REFERENCE SURVEY MONUMENT

LOCATION				ITEM NO. 613.03
ROAD	STATION	O/S FROM ℄	O/S FROM ℄	QUANTITY (Each)
H-2	I.B. ℄ Sta. 223+50		45' (Rt.)	1
H-2	I.B. ℄ Sta. 223+50		9' (Lt.)	1
H-2	O.B. ℄ Sta. 224+50		10' (Rt.)	1
H-2	O.B. ℄ Sta. 224+50		45' (Lt.)	1
H-2	℄ Sta. 247+50	58' (Rt.)		1
H-2	℄ Sta. 247+50	0		1
H-2	℄ Sta. 247+50	58' (Lt.)		1
TOTAL				7

LIST OF HEADLIGHT GLARE SCREEN

LOCATION		ITEM NO. 660.01
ROAD	STATION TO STATION	QUANTITY (Lin. Ft.)
H-2	I.B. ℄ Sta. 223+00 to ℄ Sta. 248+00	2,322

LIST OF "EMERGENCY PANEL" SIGN PLATES TO BE FASTENED ONTO GLARE SCREEN

* LOCATION	QUANTITY (Each)
I.B. ℄ Sta. 229+00	1
℄ Sta. 235+00	1
℄ Sta. 241+00	1
℄ Sta. 247+00	1
TOTAL (APPROXIMATE)	4

* Locations are subject to changes as directed by the Engineer.

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

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

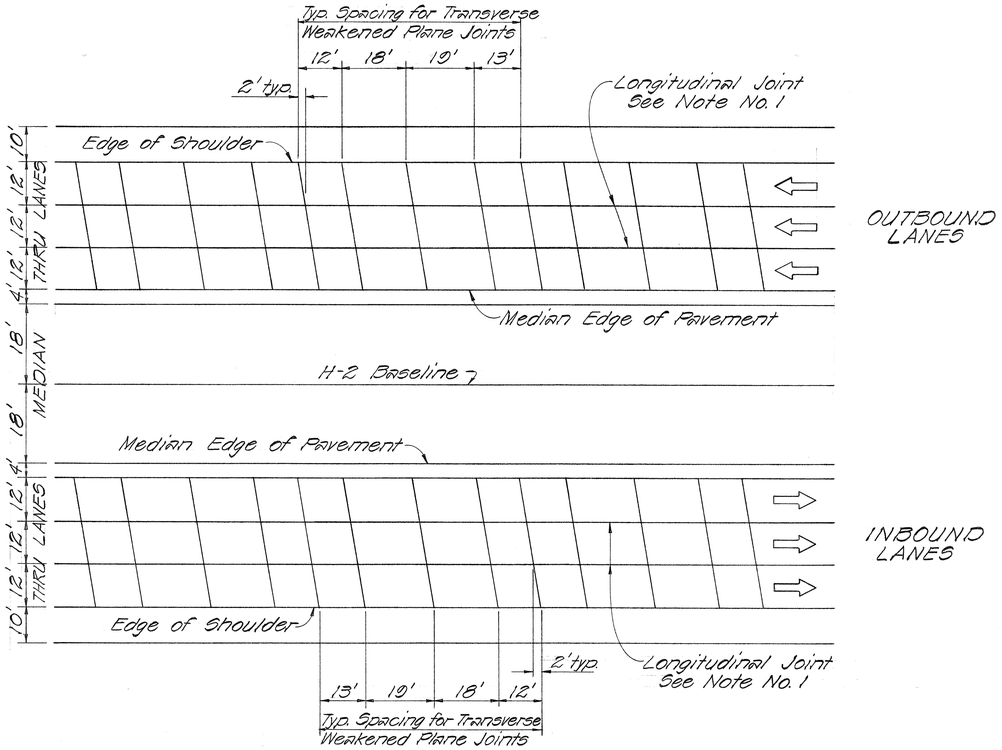
LIST OF GUARD RAILS, MONUMENTS & HEADLIGHT GLARE SCREEN

INTERSTATE ROUTE H-2
KIPAPA STREAM BRIDGE
F.A.I. Proj. No. I-HI-1(9):4

Scale: N/A Date: June, 1973

SHEET No. 1 OF 11 SHEETS

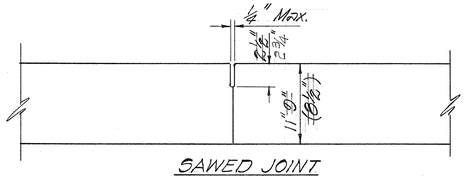
FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-HE-1(9)4	1973	18	122



TYPICAL JOINT LOCATION AND LAYOUT PLAN
Scale: 1"=20'

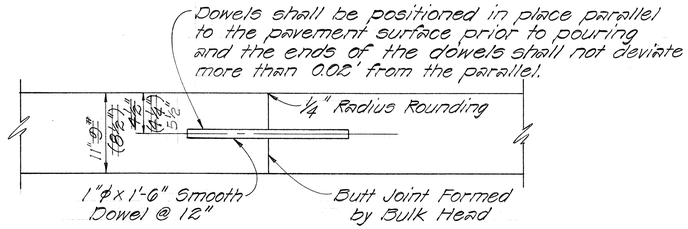
GENERAL NOTES

1. The longitudinal weakened plane joint detail shall be applicable at the intermediate traffic lane edge when two or more lanes are paved in one continuous pour. The straight tie bars shall be placed mechanically to the depth shown on the detail. All other longitudinal joints shall be constructed in accordance with the contact joint detail shown on this plan.
2. Transverse weakened plane joints shall be sawed diagonally as shown, unless otherwise directed by the Engineer. Under typical conditions transverse weakened plane joints shall be skewed counter-clockwise relative to the baseline and rotated about the inside edge of pavement with an offset of 2' for every 12' of lane width from the perpendicular to the baseline.
3. Transverse weakened plane joints shall be spaced at successive intervals of 13', 19', 18', and 12', in the direction of traffic. Repeat for the remaining joints.
4. Transverse contact joints shall be located at a minimum distance of 5' from the nearest planned transverse weakened plane joint.
5. At the outer edge of the P.C.C. pavement, ½" radius rounding shall be utilized longitudinally.

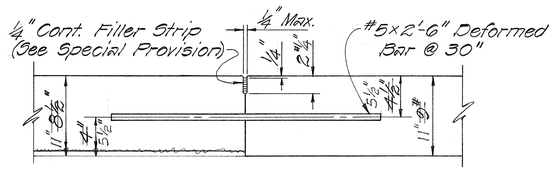


SAWED JOINT

TRANSVERSE WEAKENED PLANE (CONTRACTION) JOINT
Scale: 1½"=1'-0"

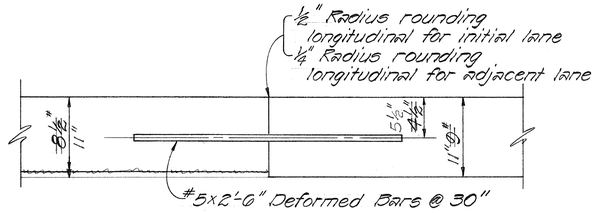


TRANSVERSE CONSTRUCTION (CONTACT) JOINT
Scale: 1½"=1'-0"



PREFORMED FILLER JOINT

LONGITUDINAL WEAKENED PLANE (CONTRACTION) JOINT
Scale: 1½"=1'-0"



LONGITUDINAL CONSTRUCTION (CONTACT) JOINT
Scale: 1½"=1'-0"

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

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

CONSTRUCTION JOINT DETAILS

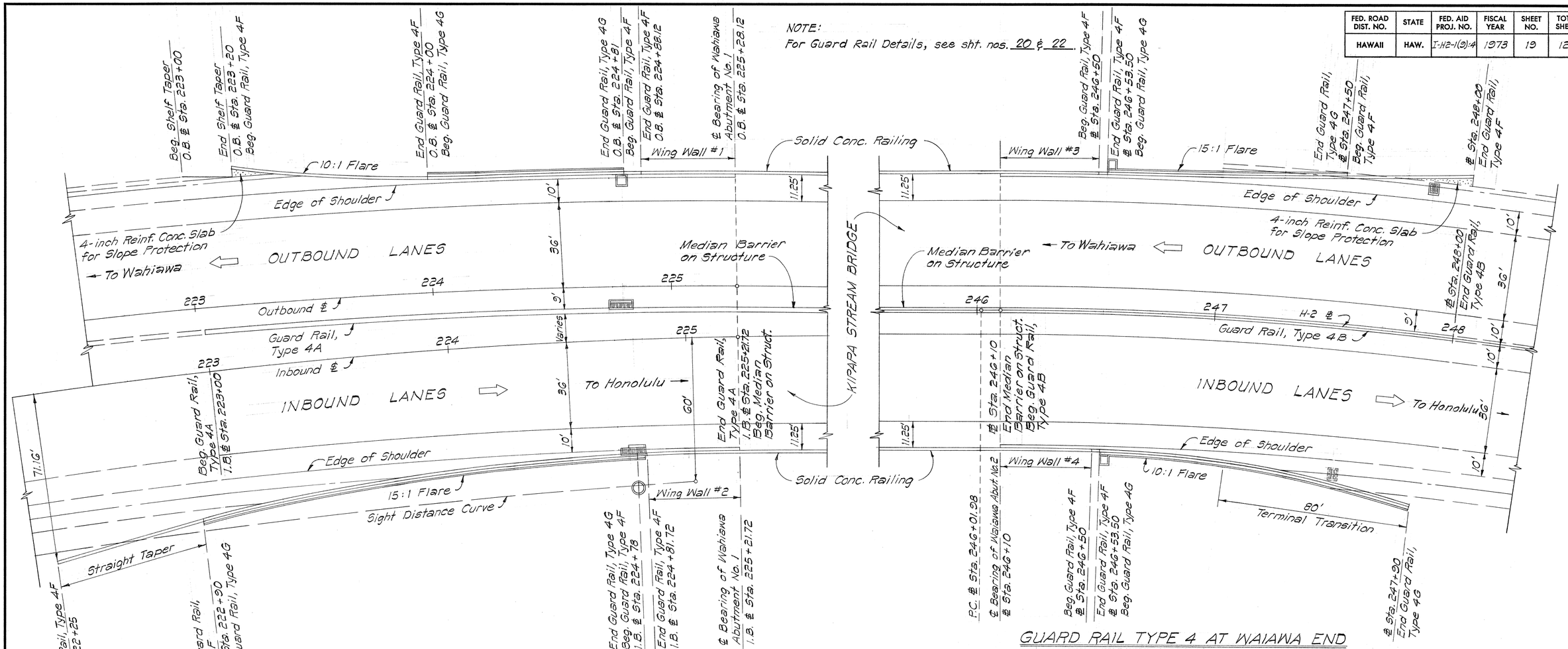
INTERSTATE ROUTE H-2
KIPAPA STREAM BRIDGE
F.A.I. Proj. No. I-HE-1(9):4

Scale: As Shown Date: June 1973

SHEET No. 2 OF 11 SHEETS

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-H2-1(3):4	1973	19	122

NOTE:
For Guard Rail Details, see sht. nos. 20 & 22.



GUARD RAIL TYPE 4 AT WAHIAWA END

Scale : 1" = 20'

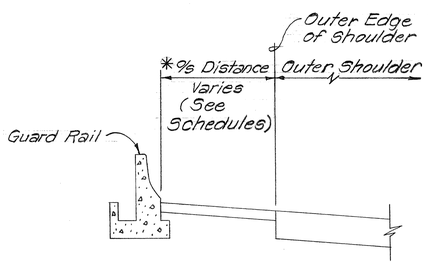
GUARD RAIL TYPE 4 AT WAIAWA END

Scale : 1" = 20'

15 : 1 GUARD RAIL FLARE	
Inb. ℄ Sta.	*% Rt. from edge of Shoulder
222 + 90	15.25'
223 + 00	13.95'
223 + 25	10.37'
223 + 50	8.30'
223 + 75	6.21'
224 + 00	4.42'
224 + 25	3.04'
224 + 50	2.04'
224 + 75	1.45'
225 + 00	1.25'
225 + 21.72	1.25'

10 : 1 GUARD RAIL FLARE	
Out. ℄ Sta.	*% Lt. from edge of Shoulder
223 + 20	11.25'
223 + 25	10.28'
223 + 50	6.15'
223 + 75	3.22'
224 + 00	1.65'
224 + 20	1.25'
225 + 28.12	1.25'

NOTE:
* See Detail on this sheet



DETAIL FOR *% DISTANCE FROM OUTER EDGE OF OUTER SHLDR.

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

10 : 1 GUARD RAIL FLARE	
℄ Station	*% Rt. from edge of Shoulder
246 + 10	1.25'
246 + 50	1.25'
246 + 75	1.70'
247 + 00	3.04'
247 + 25	5.27'
247 + 50	8.39'
247 + 75	12.41'
247 + 90	15.25'

15 : 1 GUARD RAIL FLARE	
℄ Station	*% Lt. from edge of Shoulder
246 + 10	1.25'
246 + 50	1.25'
246 + 75	1.52'
247 + 00	2.36'
247 + 25	3.75'
247 + 50	5.69'
247 + 75	8.19'
248 + 00	11.25'

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

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

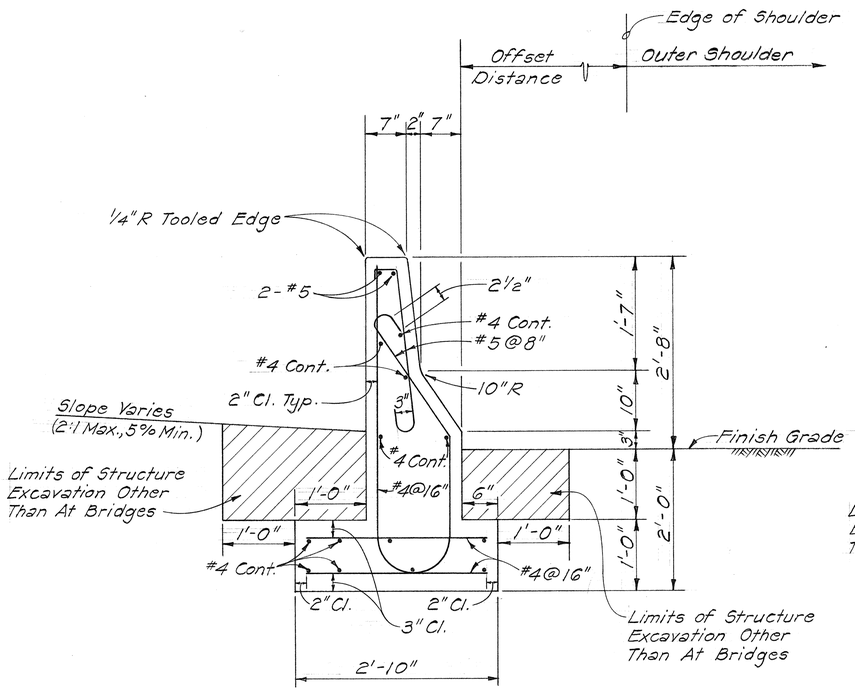
GUARD RAIL PLAN AT BRIDGE APPROACHES

INTERSTATE ROUTE H-2
KIPAPA STREAM BRIDGE
F.A.I. PROJ. NO. I-H2-1(3):4

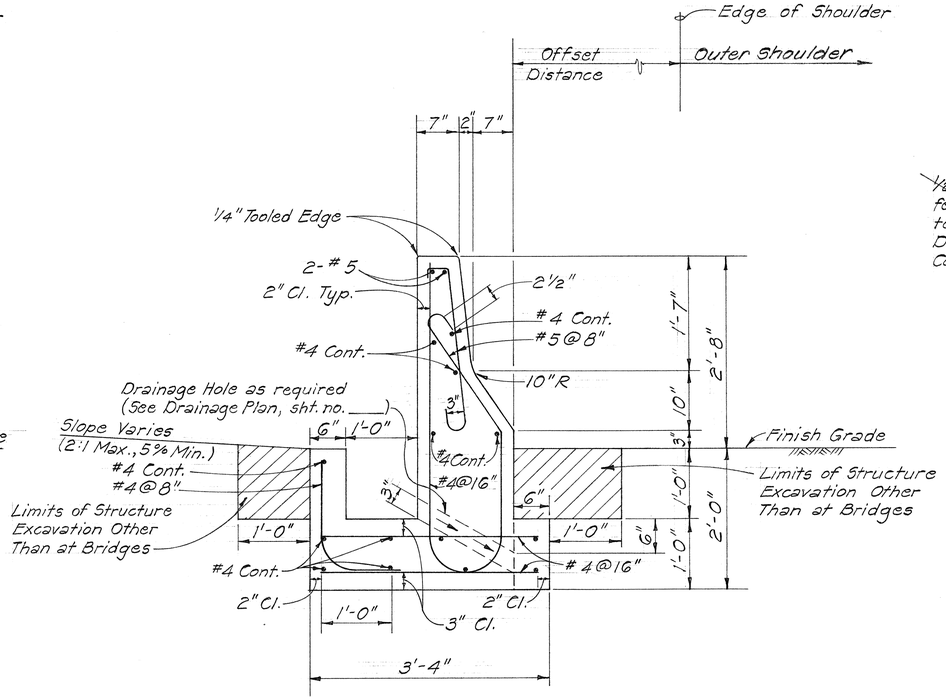
Scale : As Shown Date : June, 1973

SHEET No. 3 OF 11 SHEETS

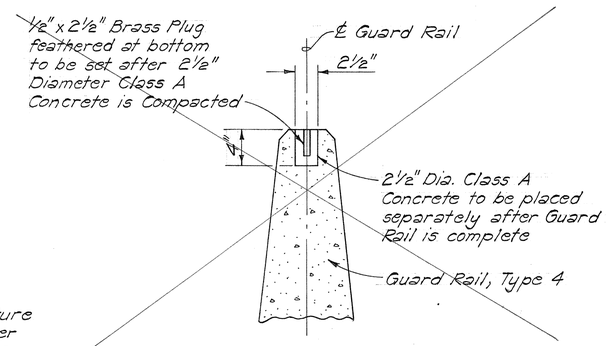
FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-H2(9):4	1973	20	122



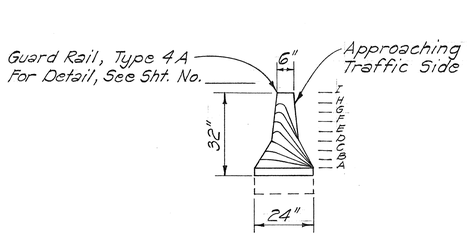
DETAIL SECTION
GUARD RAIL-TYPE 4F
Scale: 1" = 1'-0"

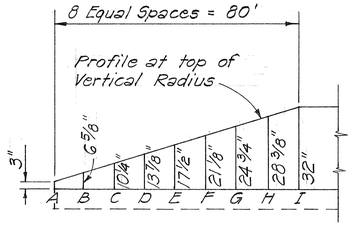


DETAIL SECTION
GUARD RAIL-TYPE 4G
Scale: 1" = 1'-0"

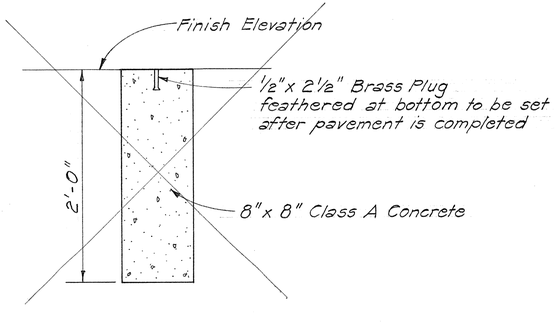


DETAIL OF REFERENCE SURVEY MONUMENT ON GUARD RAIL, TYPE 4
Scale: 1 1/2" = 1'-0"





DETAIL OF GUARD RAIL, TYPE 4
80' TERMINAL TRANSITION
Not To Scale



DETAIL OF CENTERLINE & REFERENCE SURVEY MONUMENT
Scale: 1 1/2" = 1'-0"

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

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

GUARD RAIL & SURVEY MONUMENT DETAILS

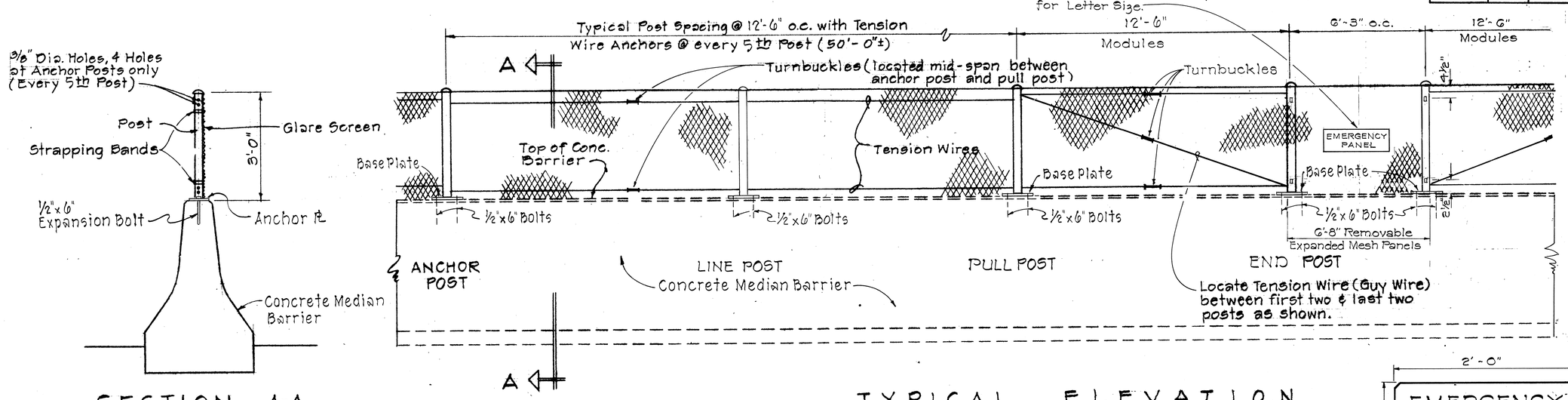
INTERSTATE ROUTE H-2
KIPAPA STREAM BRIDGE
F.A.I. PROJ. NO. I-H2-1(9):4

Scale: As Shown Date: June, 1973

SHEET No. 4 OF 11 SHEETS

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-H2-1(9):4	1973	21	122

8"x 24" Sign Plates back to back and fastened together with two rivets or bolts top and bottom diagonally at every removable panel. Sign shall also be centered on the panel. See Detail "A" for Letter Size.

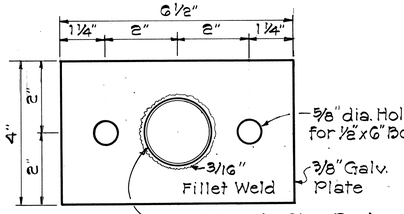


SECTION A-A

Not to Scale

NOTES:

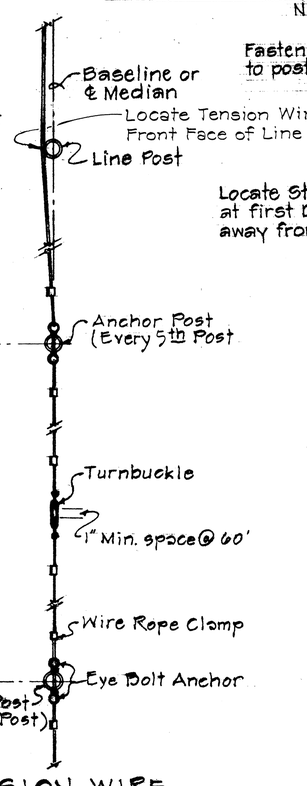
1. Install Removable Expanded Mesh Panels at approximately 600 ft. intervals. Vary spacing to provide a removal panel at each structure crossing over Highway.
2. Removable Expanded Mesh Panels will be paid for under pay item 660.01 - Headlight Glare Screen.
3. The words "EMERGENCY PANEL" shall be black on reflectorized yellow background panel, 0.063" thick aluminum.
4. "EMERGENCY PANEL" sign plates shall not be paid for separately but shall be incidental to Headlight Glare Screen.
5. The Contractor shall submit 6 sets of shop drawings to the Engineer for approval for connecting the Removable Expanded Mesh Panels to posts. Removable connections shall be designed so that the panels can be removed easily, but also snug enough to prevent shaking or accidental removal.
6. Removable Expanded Mesh Panels shall also be reinforced by stiffeners at the upper and lower ends of the panels. Six (6) sets of the shop drawings shall be submitted to the Engineer for approval.



BASE PLATE DETAIL

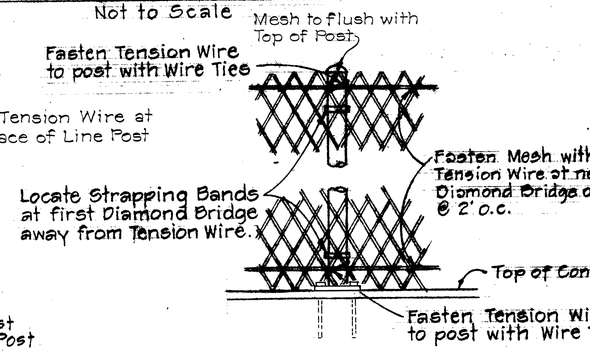
TYPICAL ELEVATION

Not to Scale



TENSION WIRE CONNECTIONS

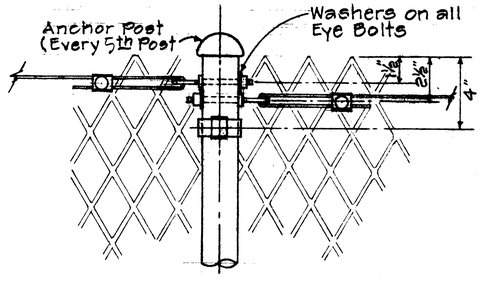
Scale: 1 1/2"=1'-0"



LINE POST CONNECTIONS

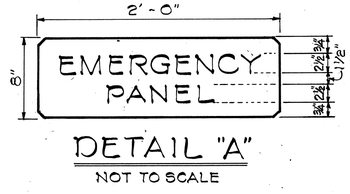
(Viewed From Mesh Side)

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



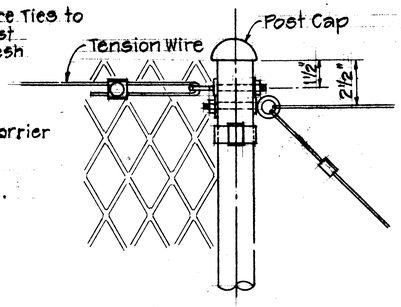
TENSION WIRE ANCHOR DETAIL

Scale: 3"=1'-0"



DETAIL "A"

NOT TO SCALE



PULL POST DETAIL

Scale: 3"=1'-0"

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

HEADLIGHT GLARE SCREEN

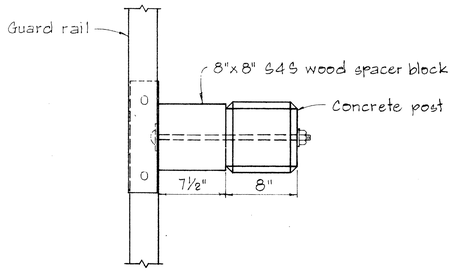
INTERSTATE ROUTE H-2
KIPAPA STREAM BRIDGE
F.A.I.P. NO. I-H2-1(9):4

SCALE: AS NOTED DATE: JUNE 1973

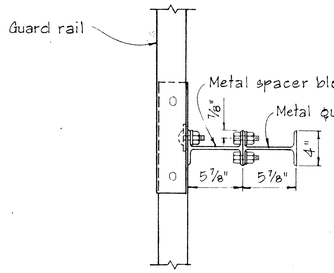
SHEET No. 5 OF 11 SHEETS

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

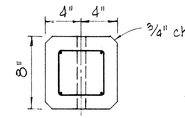
FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-H2-1(6):4	1976	21RS-1	122



PLAN

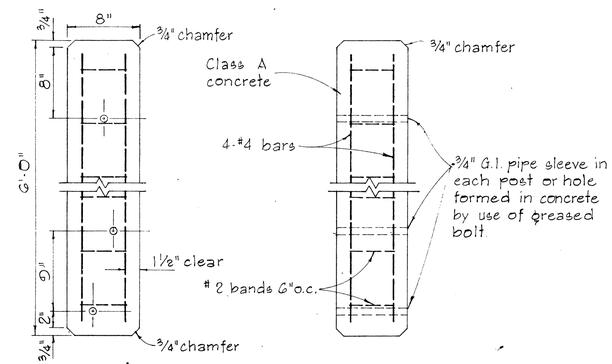


PLAN



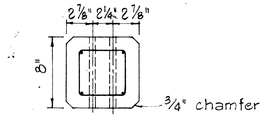
TOP VIEW

NOTE:
Concrete post shall be precast

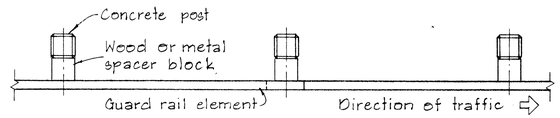


FRONT VIEW

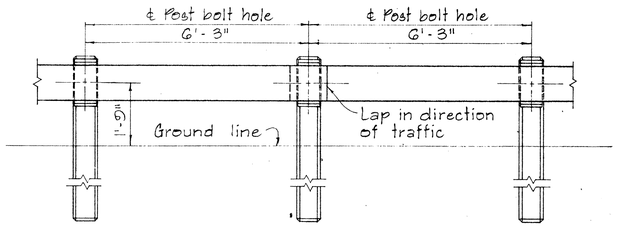
SIDE VIEW



BOTTOM VIEW



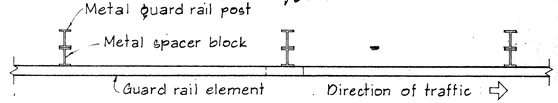
PLAN



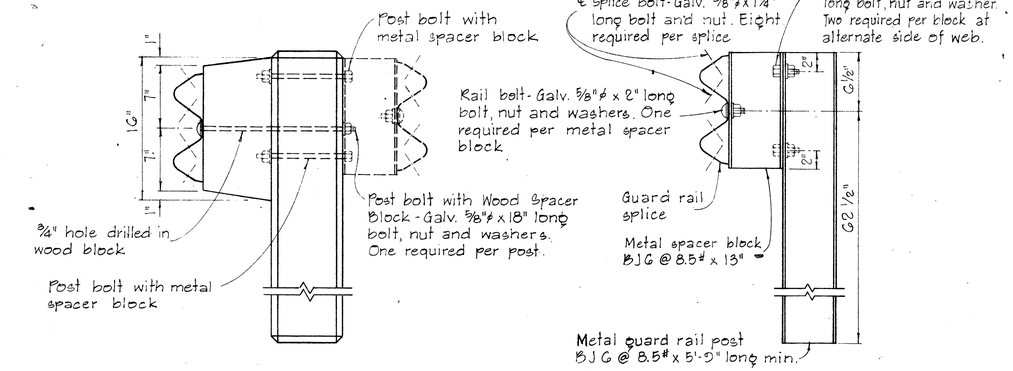
ELEVATION

METAL GUARD RAIL ON CONCRETE POST WITH WOOD OR METAL SPACER BLOCK

SCALE: ½" = 1'-0"

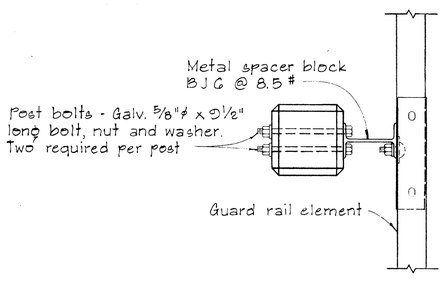


PLAN



SINGLE METAL GUARD RAIL ON PRECAST CONCRETE POST WITH WOOD OR METAL SPACER BLOCK

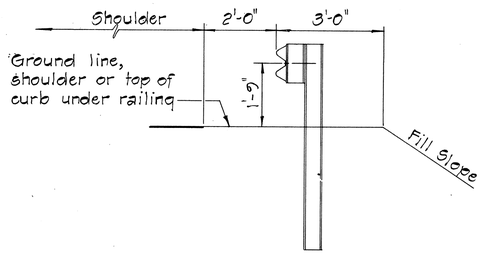
SCALE: 1½" = 1'-0"



PLAN

SINGLE METAL GUARD RAIL ON METAL POST WITH METAL SPACER BLOCK

SCALE: 1½" = 1'-0"



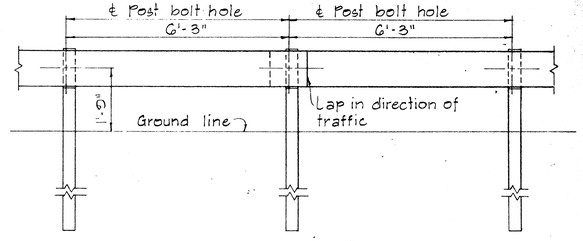
AT SHOULDER SECTION

TYPICAL METAL GUARD RAIL DETAIL

SCALE: ½" = 1'-0"

DETAIL OF CONCRETE POST

SCALE: 1½" = 1'-0"



ELEVATION

METAL GUARD RAIL ON METAL POST WITH METAL SPACER BLOCK

SCALE: ½" = 1'-0"

APPROVAL RECOMMENDED:
Eiichi Tanaka — TRAFFIC ENGINEER — 12/29/69 DATE

APPROVED:
Herbert S. Richards — ASSISTANT CHIEF, ENGINEERING — 12-30-69 DATE

NO.	REVISION	APPROVED BY	DATE

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

STANDARD DETAILS

METAL GUARD RAIL

SCALE: AS SHOWN — NOV. 1968

SHEET No. 5a OF 11 SHEETS | DT 500

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

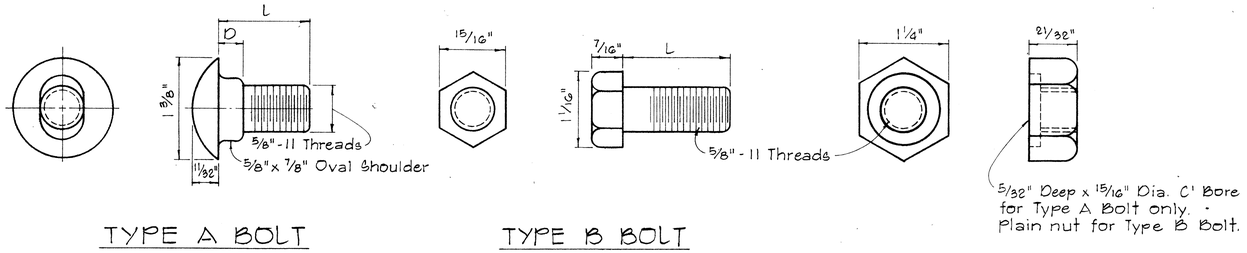
PRINTED ON NO. 1000H CLEARPRINT

21RS-1

BOLT DIMENSIONS		
TYPE A BOLT	D	L
Splice Bolt	5/16"	1 1/4"
Post Bolt for Conc. Post w/ Double Wood Blocks	3/32"	24"
Post Bolt for Conc. Post w/ Single Wood Block	3/32"	18"
Rail Bolt for Metal Block	3/32"	2"

BOLT DIMENSIONS	
TYPE B BOLT	L
Post Bolt for Conc. Post w/ Metal Blocks	9 1/2"
Post Bolt for Metal Post w/ Metal Block	1 3/4"

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	IHZ-1(6):4	1976	21RS-2	122



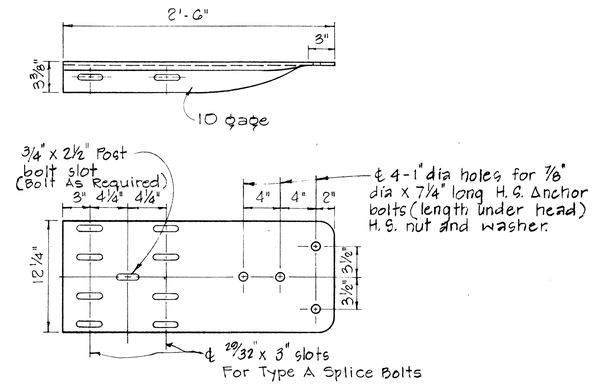
TYPE A BOLT TYPE B BOLT

SPLICE RAIL AND POST BOLTS

Scale : Full Size

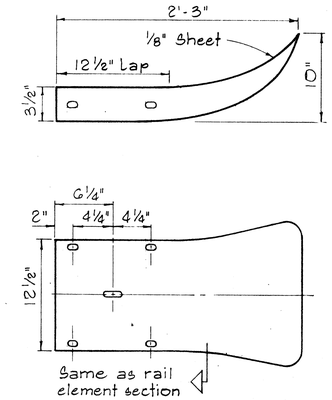
HEXAGON NUT

Scale: Full Size



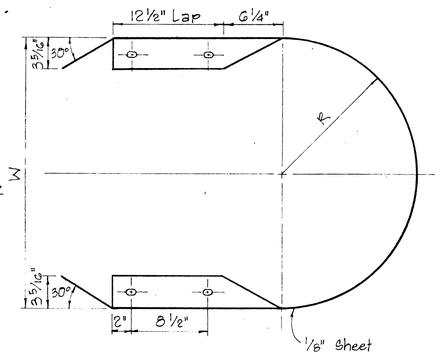
SPECIAL END SHOE

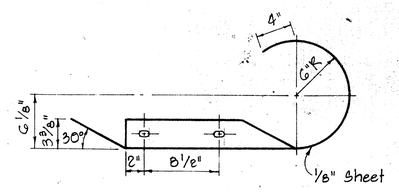
Scale : 1 1/2" = 1'-0"

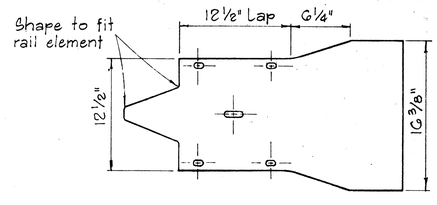


FLARED END

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

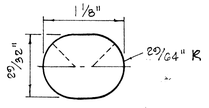




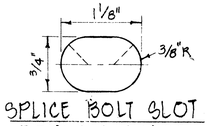


CURVED END

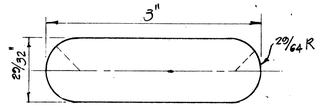
Scale: 1 1/2" = 1'-0"



SPLICE BOLT SLOT

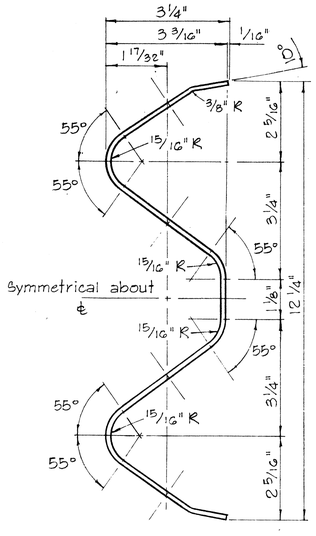


SPLICE BOLT SLOT FOR ALL ENDS



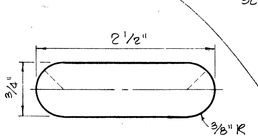
SPLICE BOLT SLOT FOR SPECIAL END SHOE

Scale: Full Size

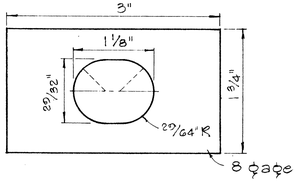


RAIL ELEMENT SECTION

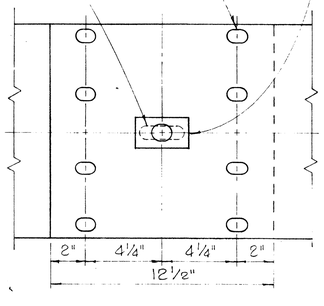
Scale: 6" = 1'-0"



POST BOLT SLOT

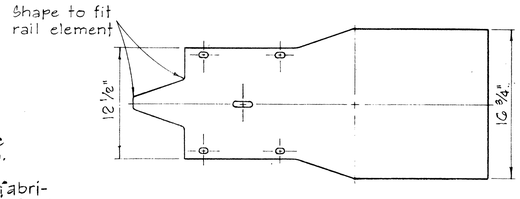


RAIL WASHER



RAIL SPLICE

Scale: 3" = 1'-0"



MEDIAN END

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

NOTES:

1. H.S. Bolts shall conform to the requirements of ASTM A 325.
2. Special End Shoe shall be fabricated from 10 Gage steel conforming to the requirements of AASHO 180.

MEDIAN END DIMENSIONS		
TYPE OF POST AND BLOCK	W	R
Double Metal Guard Rail on Concrete Post with Wood Blocks	29 3/4"	14 7/8"
Double Metal Guard Rail on Concrete Post with Metal Blocks (BJG)	26 1/2"	13 1/4"
Double Metal Guard Rail on Metal Post with Metal Blocks (BJG)	24 3/8"	12 3/16"

NO.	REVISION	APPROVED BY	DATE

APPROVAL RECOMMENDED:
Eiichi Tanaka — TRAFFIC ENGINEER — 12/20/69 DATE

APPROVED:
[signature] — ASSISTANT CHIEF, ENGINEERING — 12-30-69 DATE

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

STANDARD DETAILS
METAL GUARD RAIL

Scale: As Noted — August, 1968

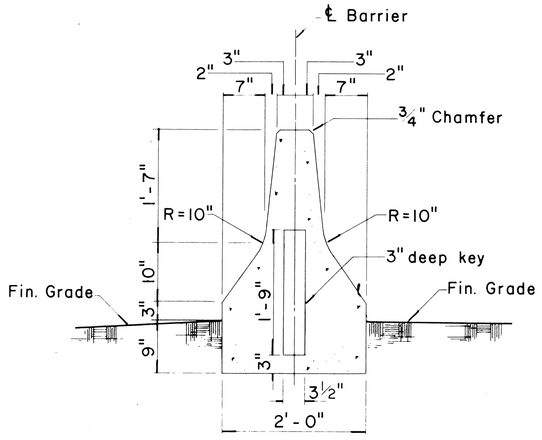
SHEET No. 56 OF 11 SHEETS | DT 501

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

PRINTED ON NO. 1000H CLEARPRINT

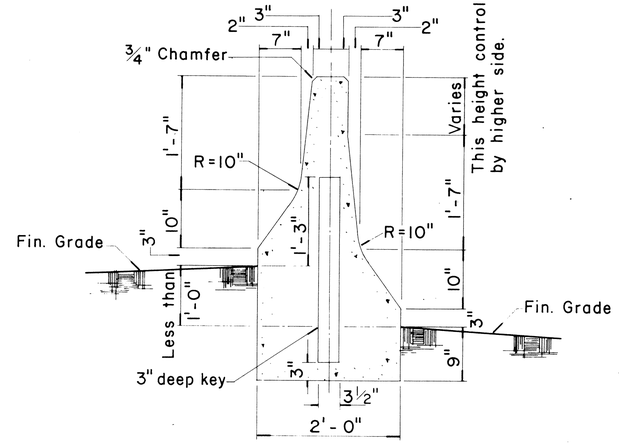
21RS-2

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-H2-1(3):4	1973	22	122



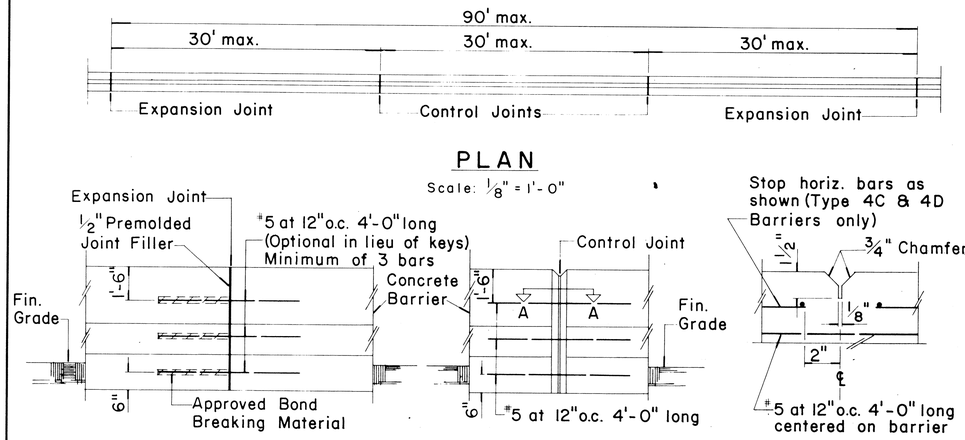
TYPE 4A

Scale: 1" = 1'-0"



TYPE 4B

Scale: 1" = 1'-0"



PLAN

Scale: 1/8" = 1'-0"

EXPANSION JOINT

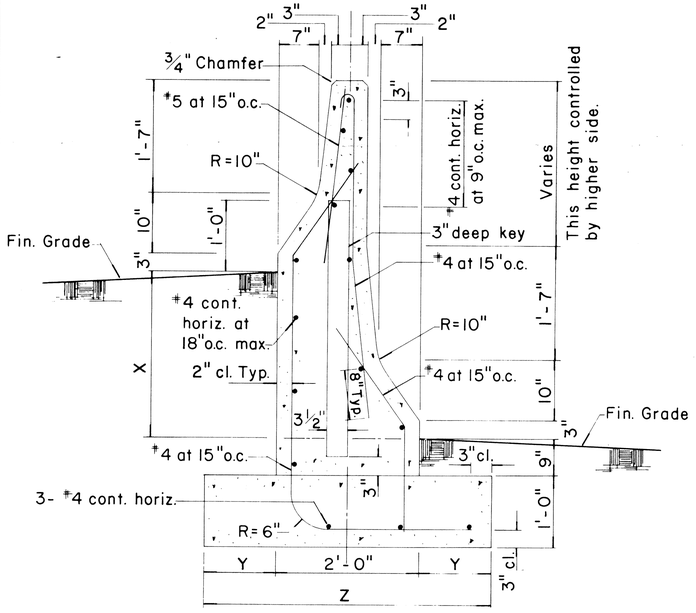
CONTROL JOINT

SECTION "A-A"

Scale: 3" = 1'-0"

ELEVATION

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



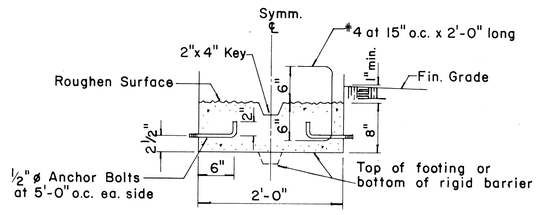
TYPE 4C & TYPE 4D

Scale: 1" = 1'-0"

TYPE	DIFFERENCE IN FIN. GRADE	FOOTING	
	X	Y	Z
4C	1'-0" min., 2'-4" max.	1'-0"	4'-0"
4D	Greater than 2'-4", 4'-4" max.	1'-3"	4'-6"

NOTE:

Except where noted all dimensions shall be the same for Type 4C and Type 4D.



OPTIONAL CONSTRUCTION JOINT DETAILS

Scale: 1" = 1'-0"

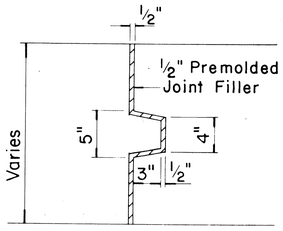
NOTE:

The intent of the optional construction joint details for the Type 4 Rigid Barrier Guard Rail is to provide a method of securing the forms and preventing uplift so that the barrier will have a uniform and presentable appearance.
The contractor may submit an alternate method of constructing the barrier for the approval of the Engineer and for use on a trial basis. Any unsatisfactory work shall be removed or corrected as directed by the Engineer and at the Contractor's expense.

GENERAL NOTES

1. Precast Rigid Barrier Guard Rail may be installed as an option to cast-in-place Type 4 Rigid Barrier Guard Rail. Contractor shall submit shop drawings to Engineer for approval.
2. Expansion Joints shall be constructed at ninety-foot (90 ft.) maximum intervals and at existing expansion joints of structures. (Use 1/2" premolded joint filler, incidental to Type 4 Rigid Barrier Guard Rail). Control Joints shall be placed between expansion joints at 30' maximum. Shear keys shall be required at all construction joints.
3. The exterior surface and vertical alignment of the Type 4 Rigid Barrier Guard Rail shall be constructed to give a uniform and presentable appearance. Variation of more than 1/4" in 20' max. and 1/2" in 40' or more will be considered objectionable. The Engineer shall determine the acceptability of the work.
During the course of the work, samples may be tested and measurements made to establish whether or not the specified values or dimensions are being met. If the specified values or dimensions are not being met, the Engineer shall determine the degree of the non-conformance, the effect on the serviceability of the project, whether the work be accepted and remain in place and, if so, the amount to be paid for such work, or whether the work shall be removed and replaced or otherwise corrected at the Contractor's expense.

NO.	REVISION	APPROVED BY	DATE
1	Supersede Sht. DT 521 Approved 12-30-69	H.T.	2/10/72



SECTION THRU KEY AT EXPANSION JOINT

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

APPROVAL RECOMMENDED:
Eiichi Tanaka — 2/10/72
TRAFFIC ENGINEER — DATE

APPROVED:
Hubert Zalesky — 2/10/72
ASSISTANT CHIEF, ENGINEERING — DATE

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

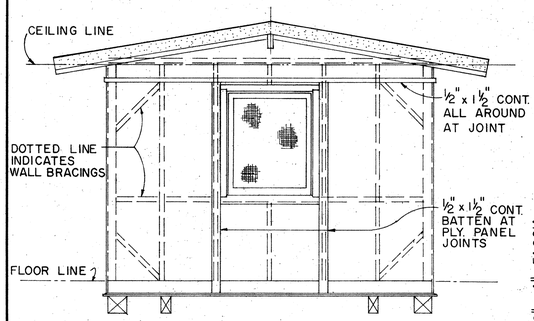
STANDARD DETAILS
GUARD RAIL TYPE 4 (RIGID BARRIER)

Scale: As Shown

SHEET No. 6 OF 11 SHEETS | DT 521

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

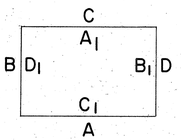
FED.ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAWAII	I-H2-1(2):4	1973	23	122



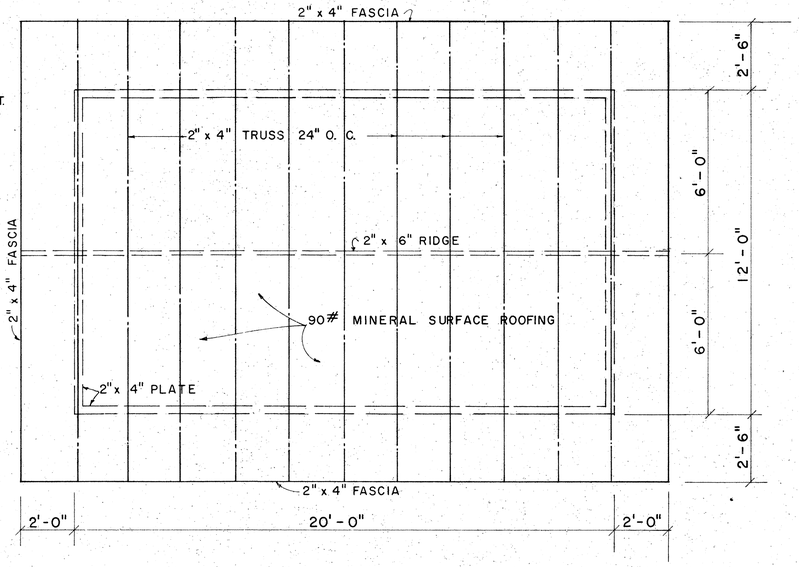
ELEVATION (B)

ELEVATION (D) SIMILAR

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

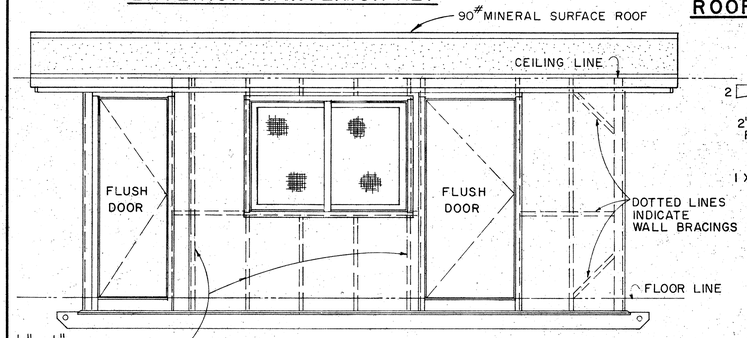


EXTERIOR & INTERIOR KEY



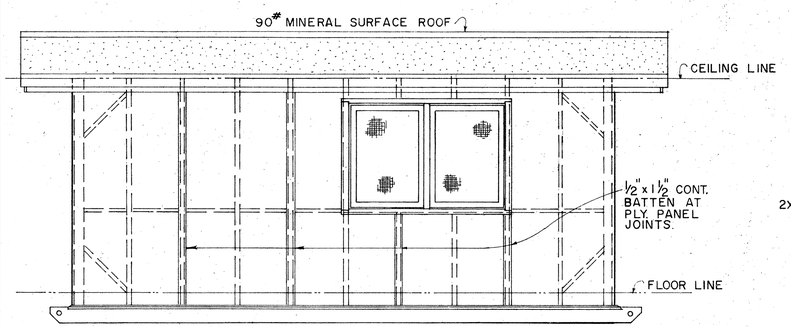
ROOF FRAMING PLAN

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



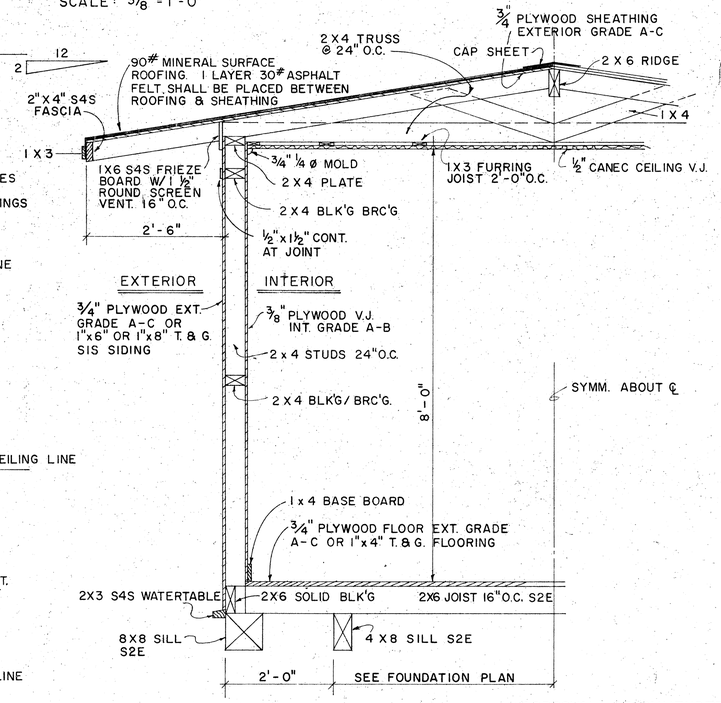
ELEVATION (A)

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



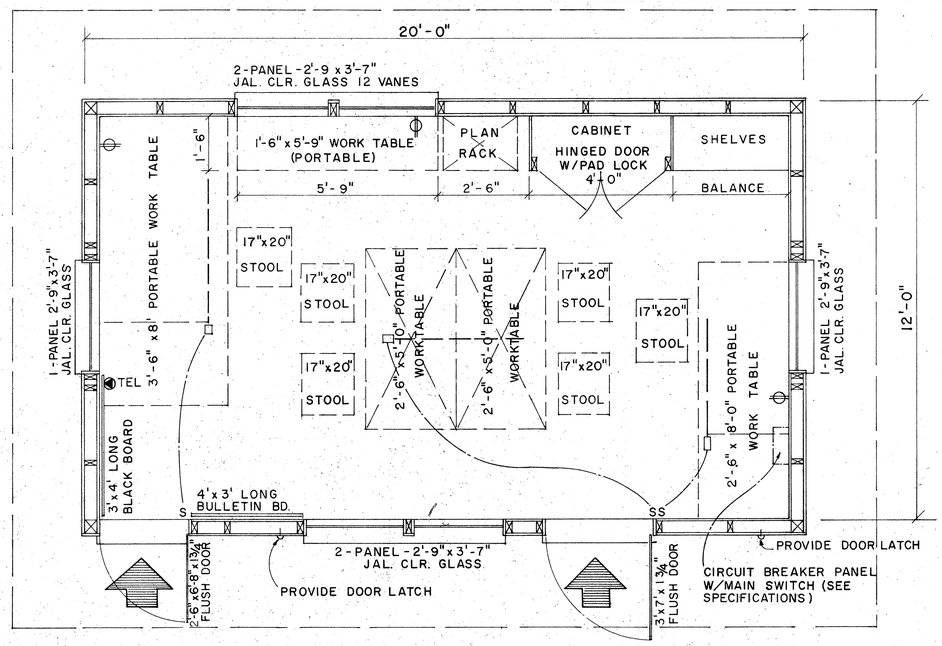
ELEVATION (C)

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



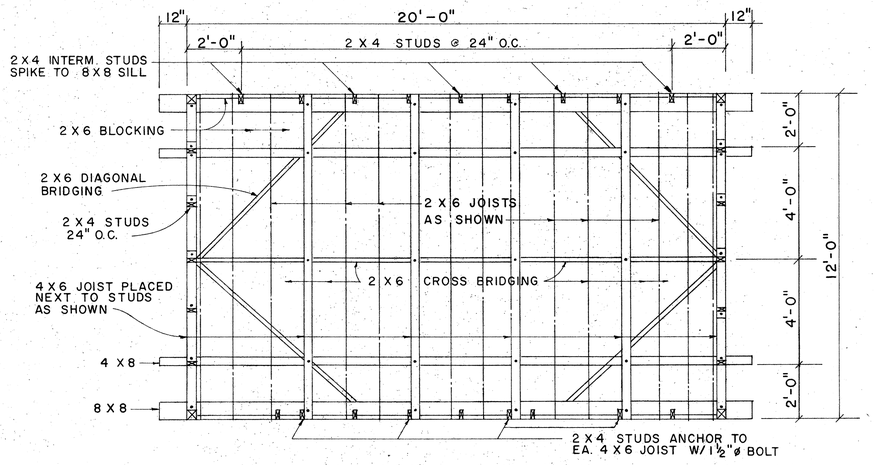
TYPICAL WALL SECTION

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



FLOOR PLAN

SCALE: ½" = 1'-0"



FOUNDATION FRAMING PLAN

SCALE: 3/8" = 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

FIELD OFFICE

Scale : As Noted

SHEET Nº 7 OF 11 SHEETS | DD 636.1

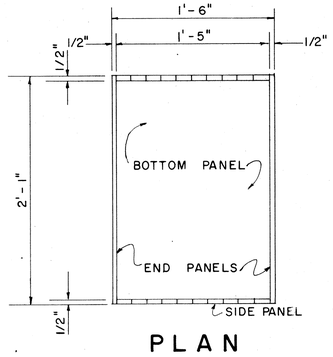
23

FIELD OFFICE & PROJECT SITE LABORATORY OF MILILANI INTERCHANGE (F.A.I PROJ. NO. I-H2-1(7):4) WAS UTILIZED FOR THIS PROJECT. THIS RESULTED IN DELETION OF PLAN SHT. NOS. 23 to 27.

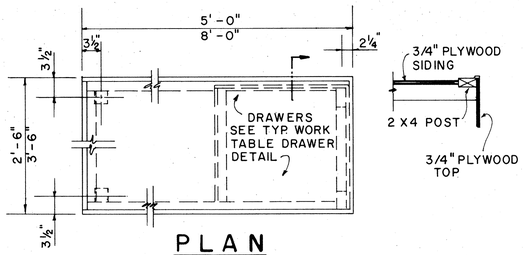
ORIGINAL PLAN | NOTE BOOK | No. | SURVEY PLOTTED BY | DRAWN BY | TRACED BY | DESIGNED BY | QUANTITIES BY | CHECKED BY | DATE

ETZ 1103 ARKWRIGHT TRACING CLOTH 10-60 200P

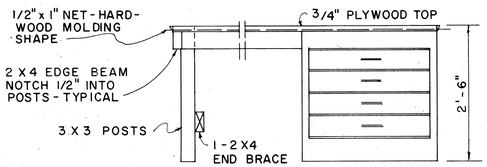
FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAWAII	I-HI-1(9):4	1973	24	122



PLAN



PLAN

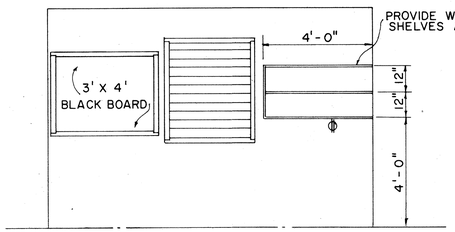


ELEVATION

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

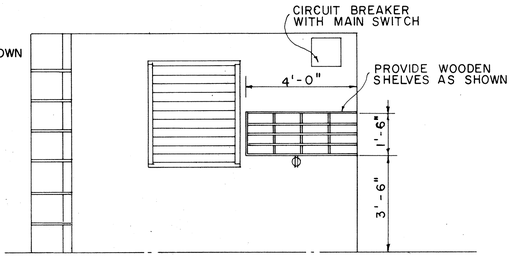
PORTABLE WORK TABLE DETAIL

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



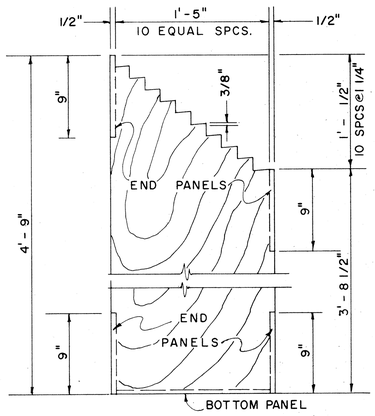
ELEVATION (D1)

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



ELEVATION (B1)

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

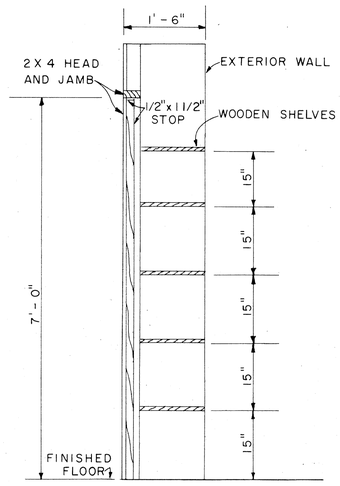


END ELEVATION

PLAN RACK DETAIL

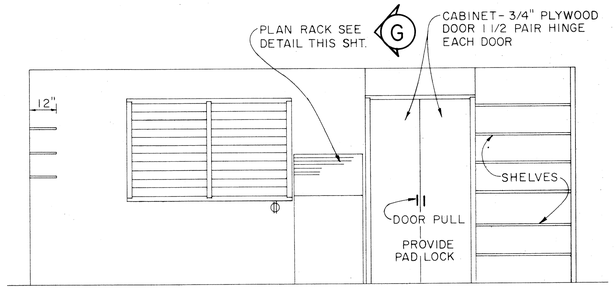
SCALE: 1 1/2" = 1'-0"

(ONE REQUIRED)



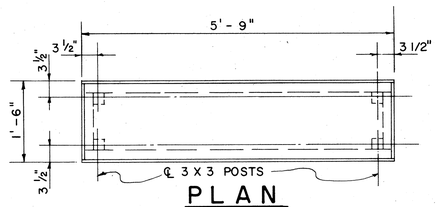
SECTION (G)

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

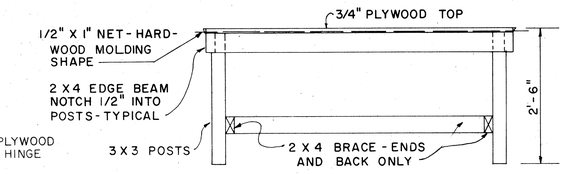


ELEVATION (A1)

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



PLAN



ELEVATION

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

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

APPROVAL RECOMMENDED:

HIGHWAY DESIGN ENGINEER — DATE: 12-9-69

APPROVED:

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

NO.	REVISION	APPROVED BY	DATE

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

FIELD OFFICE

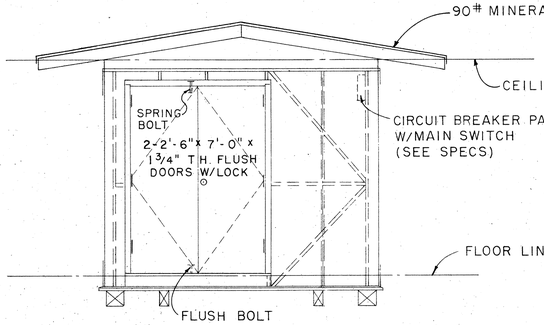
Scale: As Noted

SHEET No. 8 OF 11 SHEETS | DD 636.2

24

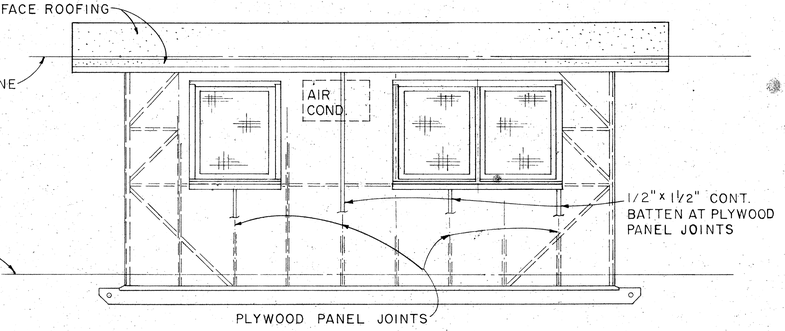
ORIGINAL PLAN
NOTE BOOK
No.
SHEET PLOTTED BY
DRAWN BY
TRACED BY
DESIGNED BY
QUANTITIES BY
CHECKED BY

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-H2-1(9):4	1973	25	122



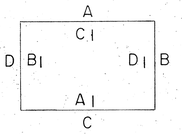
ELEVATION (B)

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

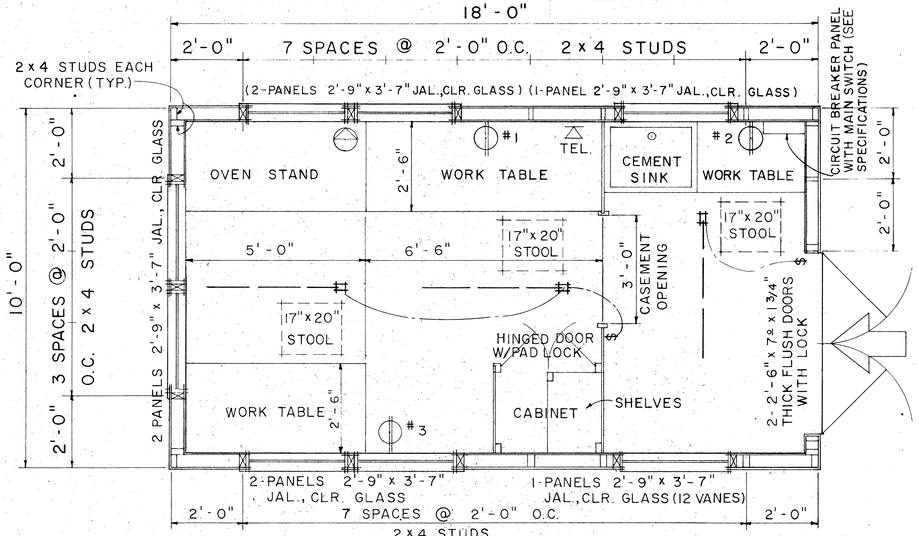


ELEVATION (A)

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



EXTERIOR & INTERIOR KEY



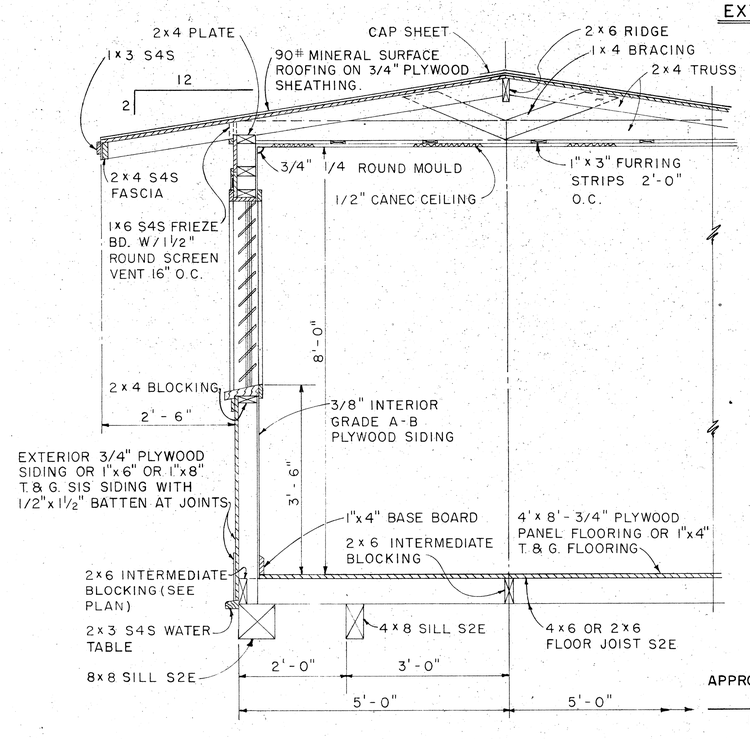
FLOOR PLAN

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.

1-LAYER 30# ASPHALT FELT SHALL BE PLACED BETWEEN ROOFING AND SHEATHING.

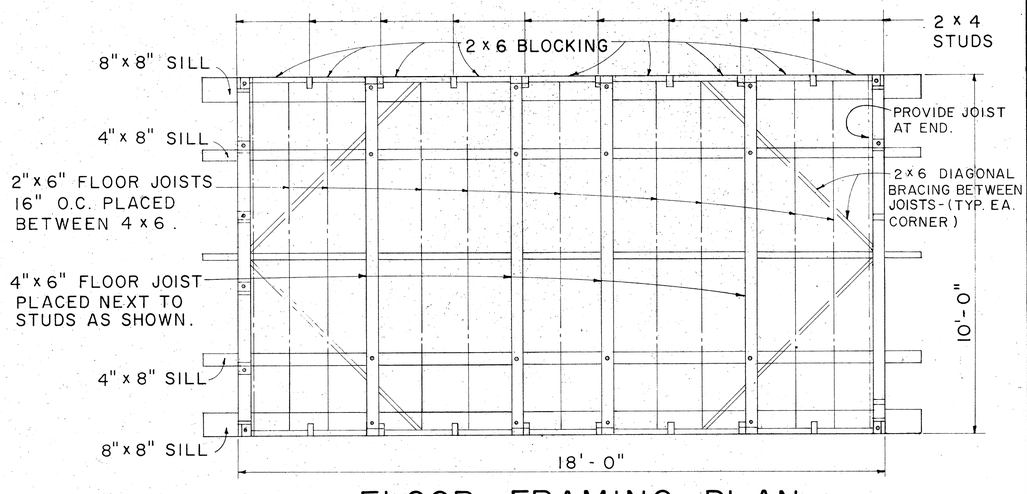


TYPICAL SECTION

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

NOTE:

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



FLOOR FRAMING PLAN

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

APPROVAL RECOMMENDED:

M. Hirozawa — HIGHWAY DESIGN ENGINEER — 12-4-69 DATE

APPROVED:

Walter D. Dodd — 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. 9 OF 11 SHEETS | DD 636.3

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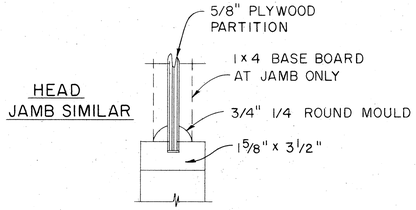
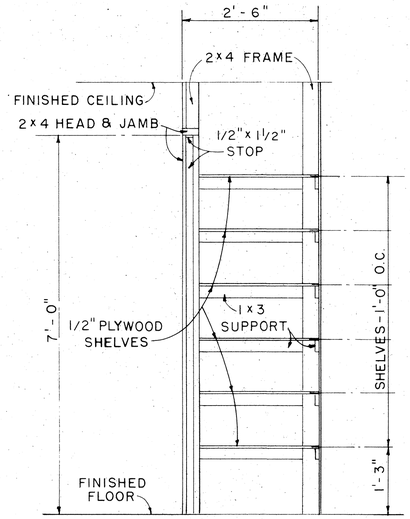
PLANS — TRACED BY — DESIGNED BY — QUANTITIES BY — CHECKED BY — NOTE BOOK — No.

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-H2-1(9):4	1973	26	122



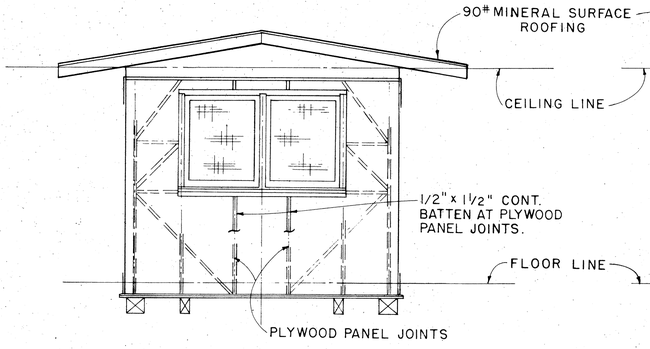
CASEMENT DETAIL

SCALE: 3" = 1'-0"



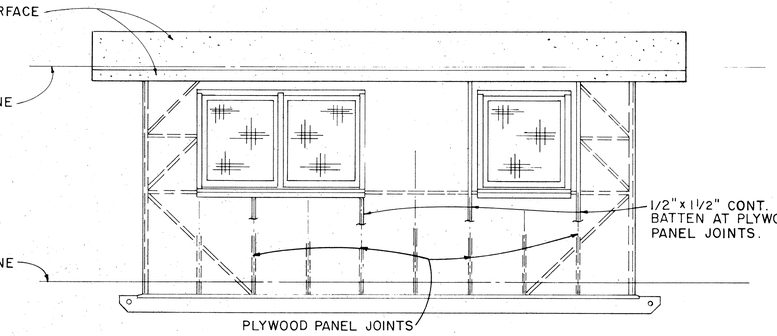
CABINET DETAIL

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



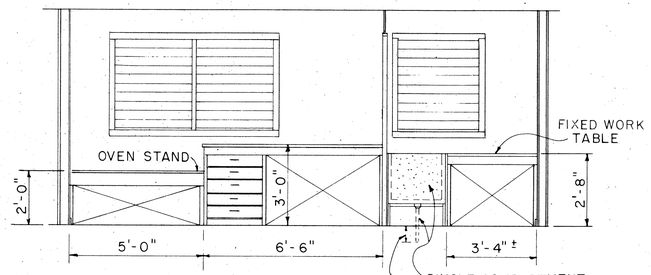
ELEVATION (D)

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



ELEVATION (C)

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

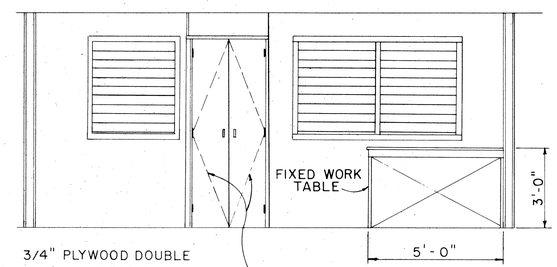


LENGTH TO BE DETERMINED IN FIELD

SINGLE COMPARTMENT CEMENT SINK W/STEEL FRAME. EXTEND DRAIN THRU FLOOR FOR CONNECTION IN FIELD.

ELEVATION (C1)

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



3/4" PLYWOOD DOUBLE W/1 1/2 HINGES EACH DOOR; DOOR CATCHES AT HEAD

ELEVATION (A1)

SCALE: 3/8" = 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

PROJECT SITE LABORATORY

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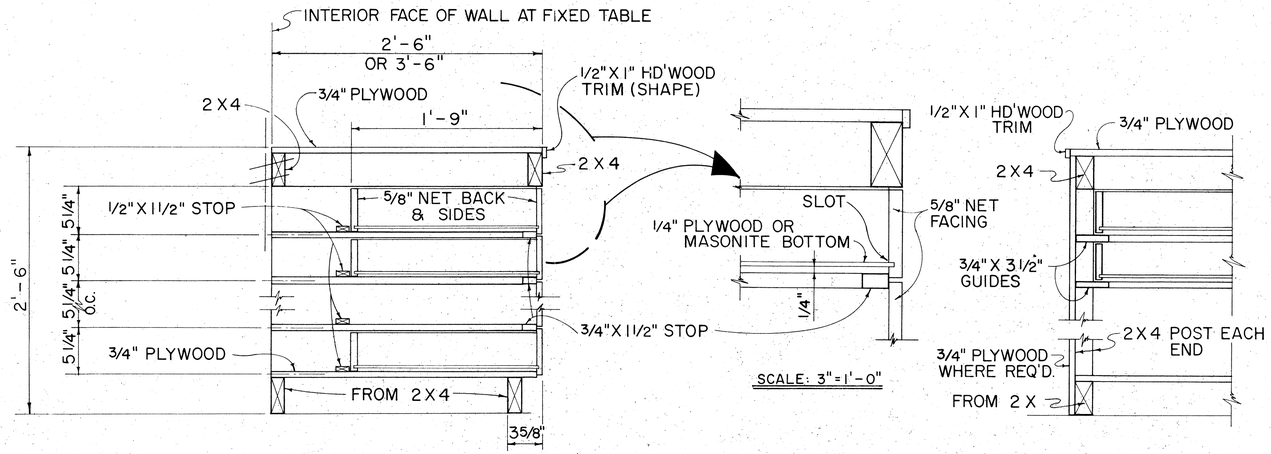
	CHECKED BY

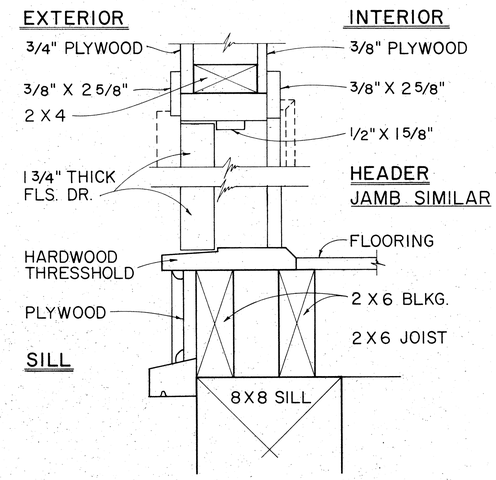
FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAWAII	I-H2-1(31)4	1973	27	122



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

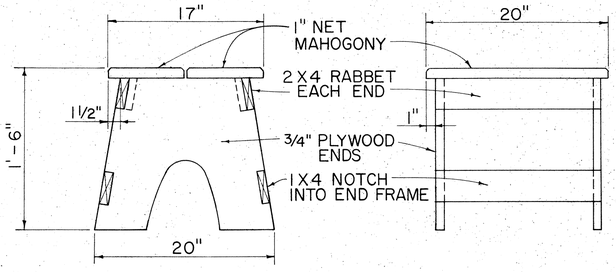
END SECTION
SCALE: 1 1/2"=1'-0"

TYPICAL WORK TABLE DRAWER DETAIL



TYP. SWING OUT DOOR

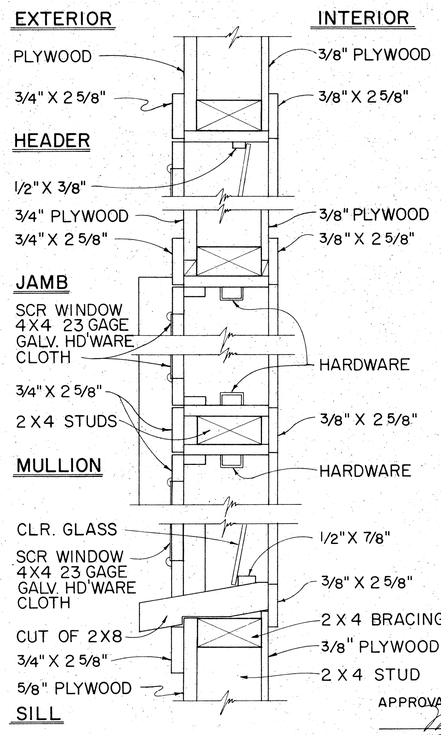
TYPICAL SINGLE OR DOUBLE EXTERIOR DOOR DETAIL



TYPICAL STOOL DETAIL

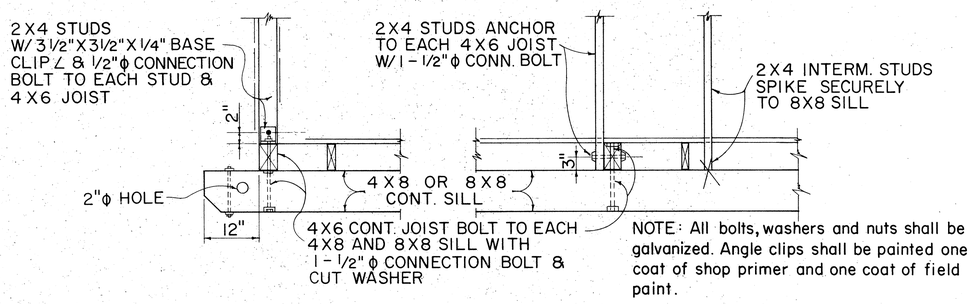
SCALE: 1 1/2"=1'-0"

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"



NOTE: All bolts, washers and nuts shall be galvanized. Angle clips shall be painted one coat of shop primer and one coat of field paint.

AT ENDS OF BLDG. ALONG SIDES OF BLDG.

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

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

APPROVED:
Charles O. Dalaki
ASSISTANT CHIEF, ENGINEERING — DATE 12-10-69

NO.	REVISION	APPROVED BY	DATE

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

FIELD OFFICE
&
PROJECT SITE LABORATORY

Scale: As Noted

SHEET No. // OF // SHEETS | DD 636.5

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