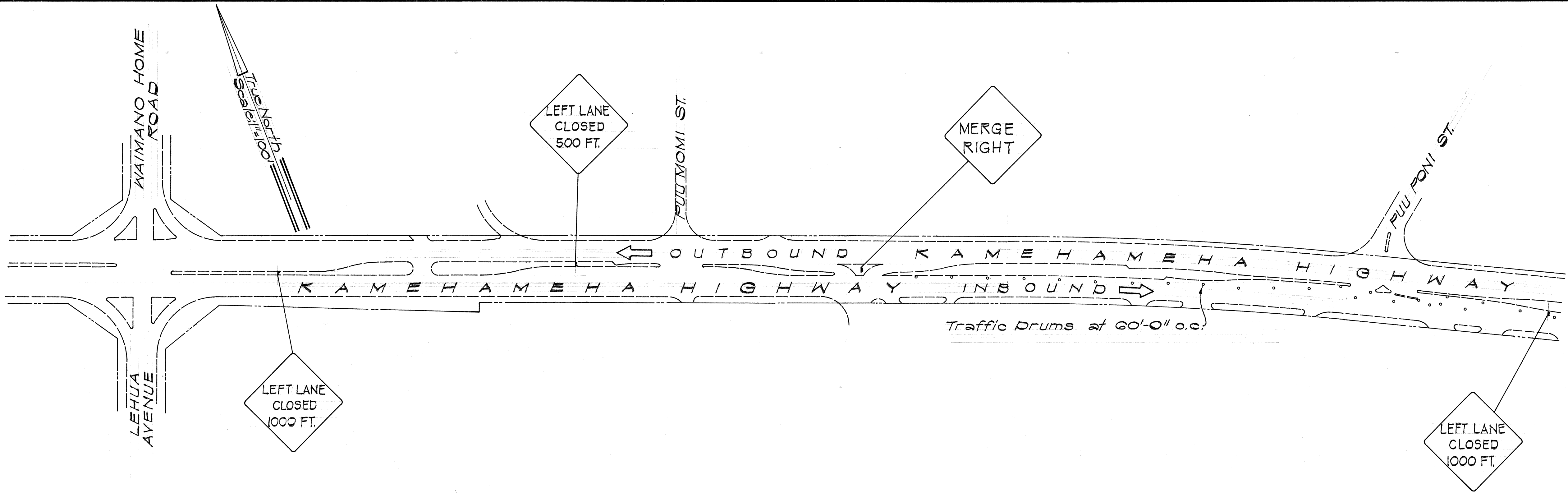


FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-HI-1(66):10 I-HI-1(67):10	1970	59	97



GENERAL NOTES

1. Unless otherwise indicated all existing Regulatory & Warning Signs shown on the plans shall be removed, salvaged & stockpiled as directed by the Engineer. Relocation of signs after removal, where called for on the plans, shall not be paid for directly but shall be considered incidental to Proposal Item 202.11 "Removal of Structures & Obstructions."
2. All Destination Signs indicated as to be removed shall be demolished & removed from the project site. All pavement or existing improvements disturbed as a result thereof shall be restored to original conditions. Restoration work shall be incidental to the removal of the signs.
3. All Highway Lighting Luminares on wood poles removed & not reused including wiring & miscellaneous hardware shall be salvaged & stockpiled.
4. All Guardrails including Rubrails & Posts shall be salvaged & stockpiled.
5. o Indicates existing Traffic Drum to be removed from the project site.
+ Indicates existing Reflector Marker (RM-2). Markers shall be salvaged & stockpiled. (See note 1 above)
6. Removal of the existing Ramp Pavement shall be paid for under Proposal Item 203.01 "Roadway Excavation." For Excavation Limits, see X-Sections.
7. For restoration work at Moanalua Road intersection see Sht. 61.

SUMMARY OF PAYMENT ITEMS

ITEM	DESCRIPTION	AMOUNT
202.11	Removal of Structures & Obstructions (L.S.) 1. Regulatory & Warning Signs (L.S.) 2. Destination Sign (L.S.) 3. Highway Lighting Luminaire, Bracket & Pole (L.S.) 4. Traffic Drums (L.S.) 5. Double Median Guard Rail w/Rub Rail (L.S.) 6. Single Guard Rail w/Rub Rail (L.S.) 7. Type "G" Curb (A.C. Roll) (L.S.)	88 Ea. 3 Ea. 6 Ea. 85 Ea. 290 L.F. 1590 L.F. 610 L.F.
203.01	Roadway Excavation	8,200 C.Y.
600.200	Curb, Type "2A"	440 L.F.
600.206	Curb, Type "2D"	184 L.F.
600.600	Curb, Type "G"	254 L.F.

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



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STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

**REMOVAL OF EXISTING
TEMPORARY RAM. HWY.
CONNECTION**

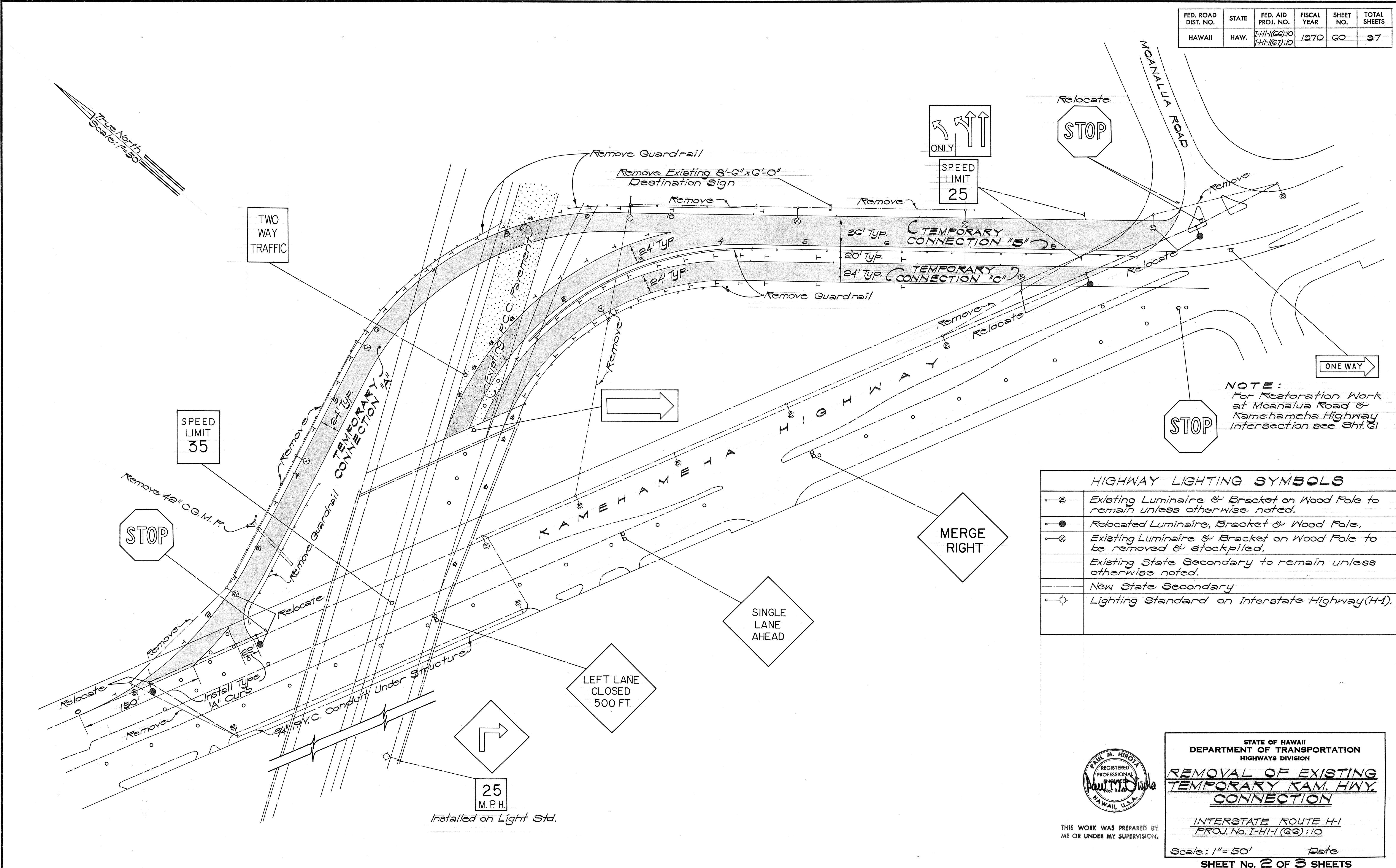
INTERSTATE ROUTE H-1
PROJ. No. I-HI-1 (66):10

Scale: As Shown Date: _____

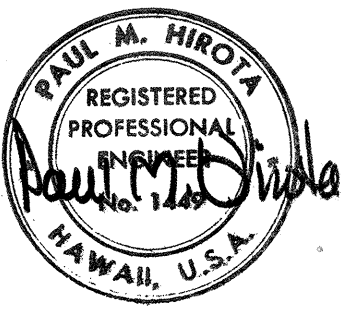
SHEET No. 1 OF 3 SHEETS

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-H-1(66):10 I-H-1(67):10	1970	60	97

ORIGINAL PLAN	DATE
SURVEY PLATTED BY	*****
DRAWN BY	*****
DESIGNED BY	*****
CHECKED BY	*****
NOTE BOOK	
No.	



HIGHWAY LIGHTING SYMBOLS	
	Existing Luminaire & Bracket on Wood Pole to remain unless otherwise noted.
	Relocated Luminaire, Bracket & Wood Pole.
	Existing Luminaire & Bracket on Wood Pole to be removed & stockpiled.
	Existing State Secondary to remain unless otherwise noted.
	New State Secondary
	Lighting Standard on Interstate Highway (H-1).



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DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

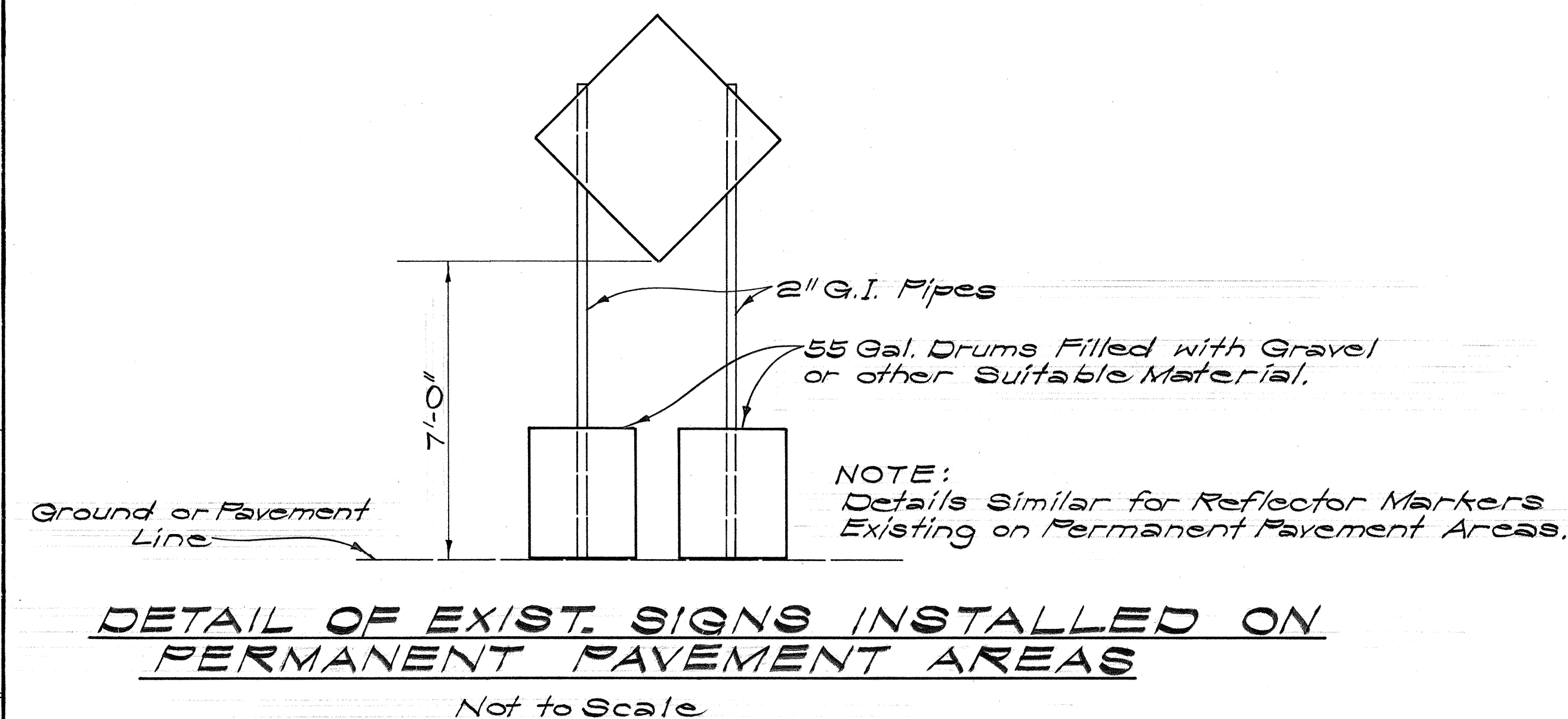
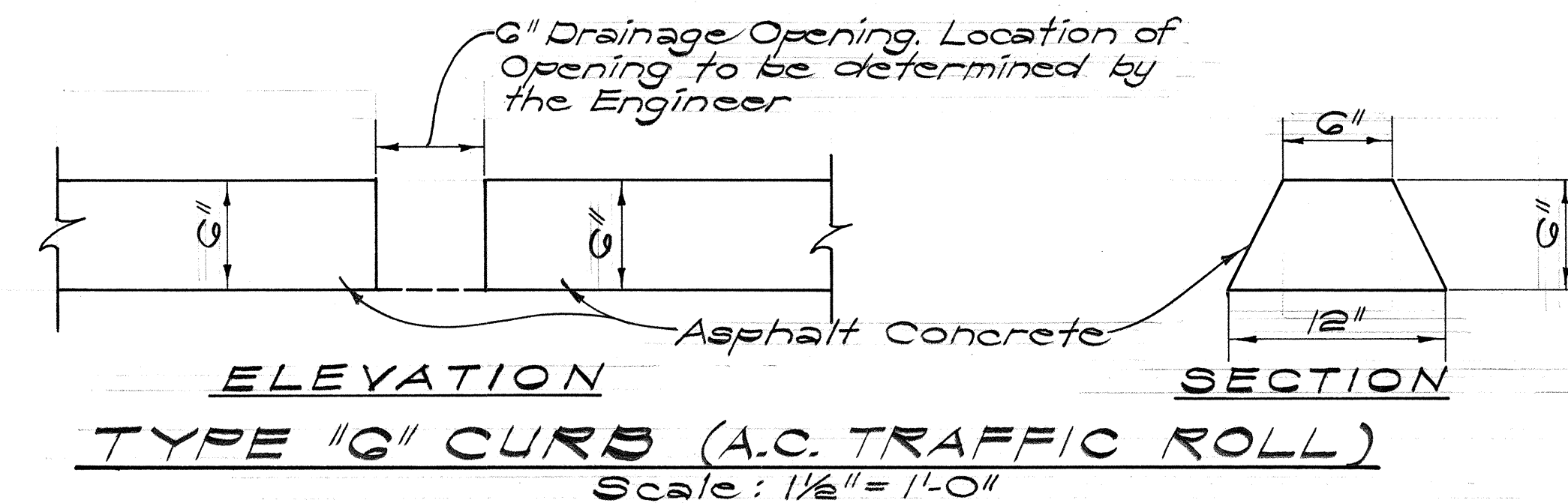
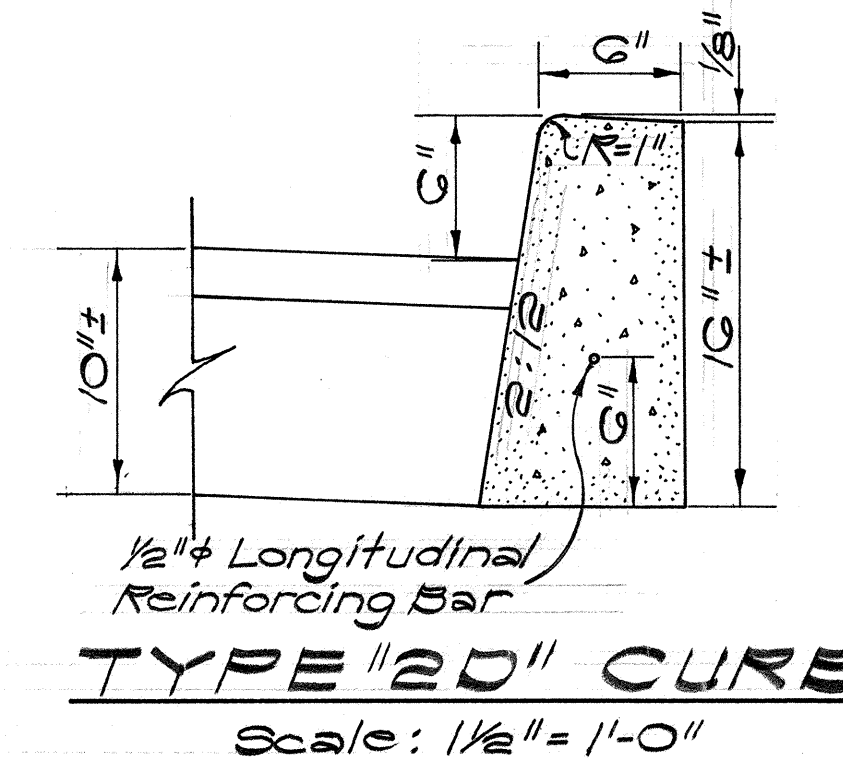
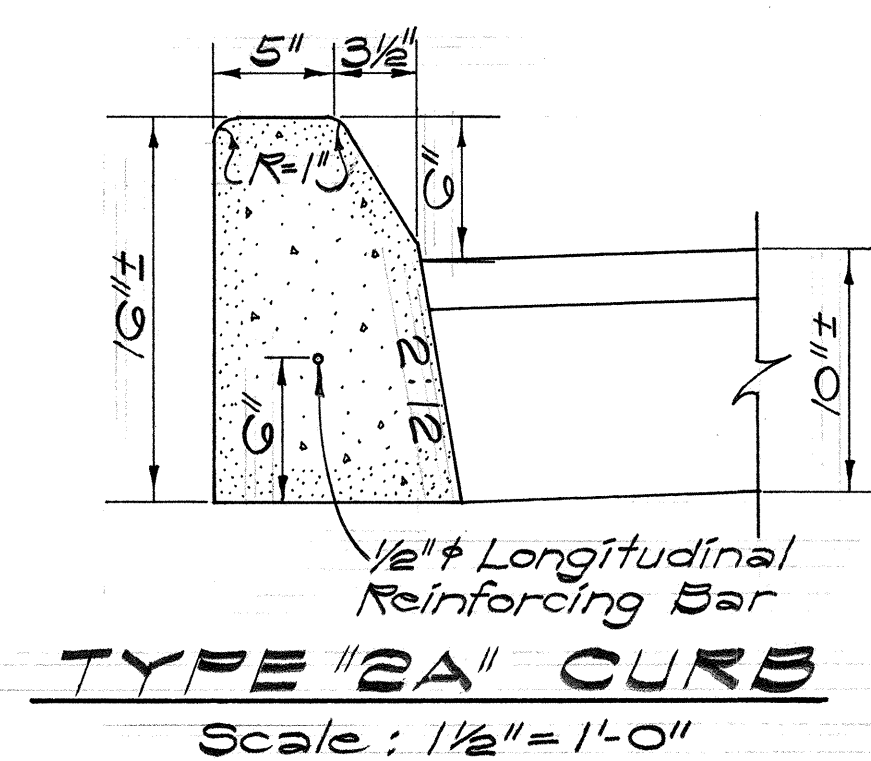
**REMOVAL OF EXISTING
TEMPORARY KAM. HWY.
CONNECTION**

INTERSTATE ROUTE H-1
PROJ. No. I-H-1 (66):10

Scale: 1" = 50' Date:

SHEET No. 2 OF 3 SHEETS

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-H-1-(66)10 I-H-1-(67)10	1970	61	97



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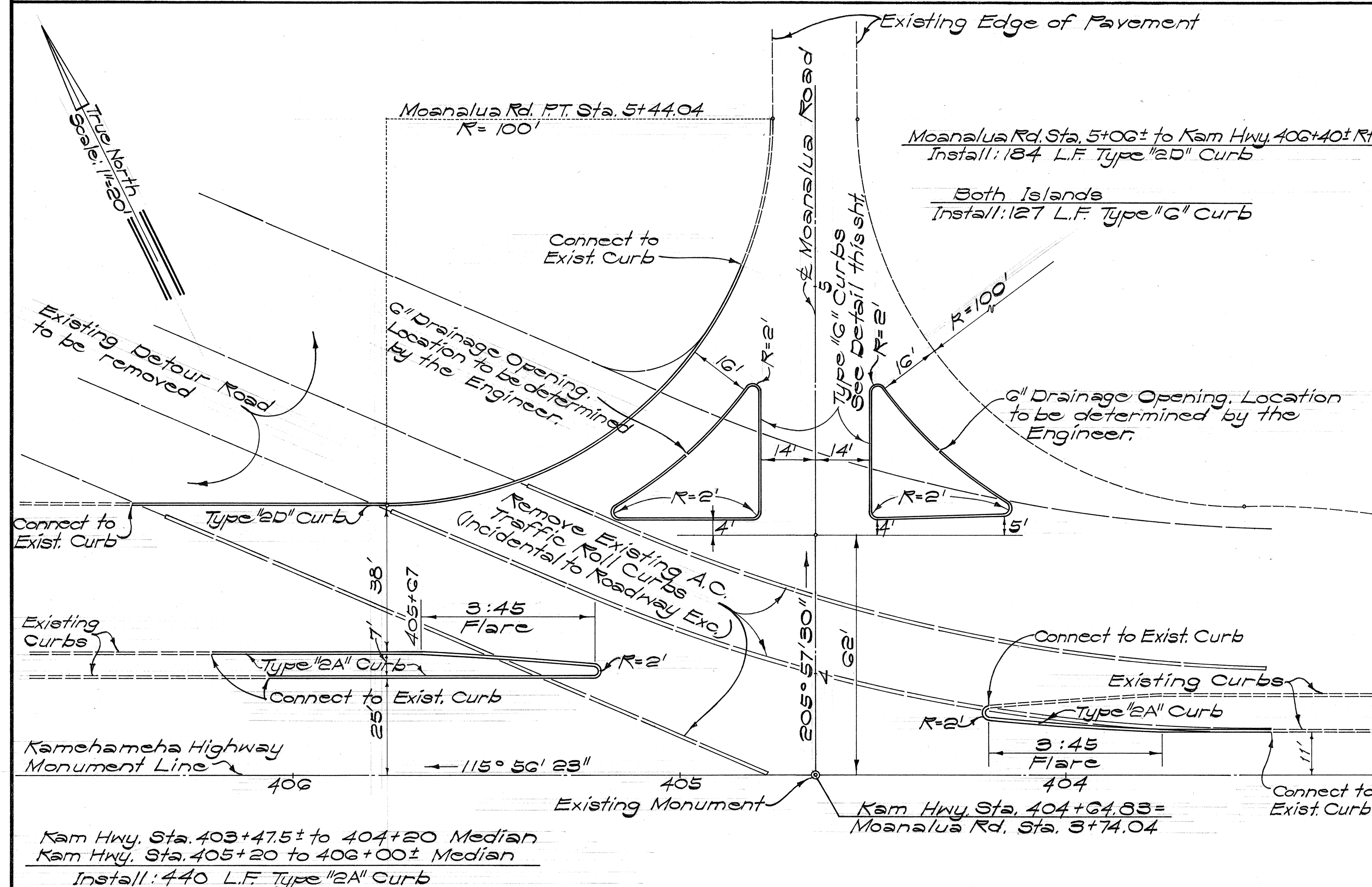
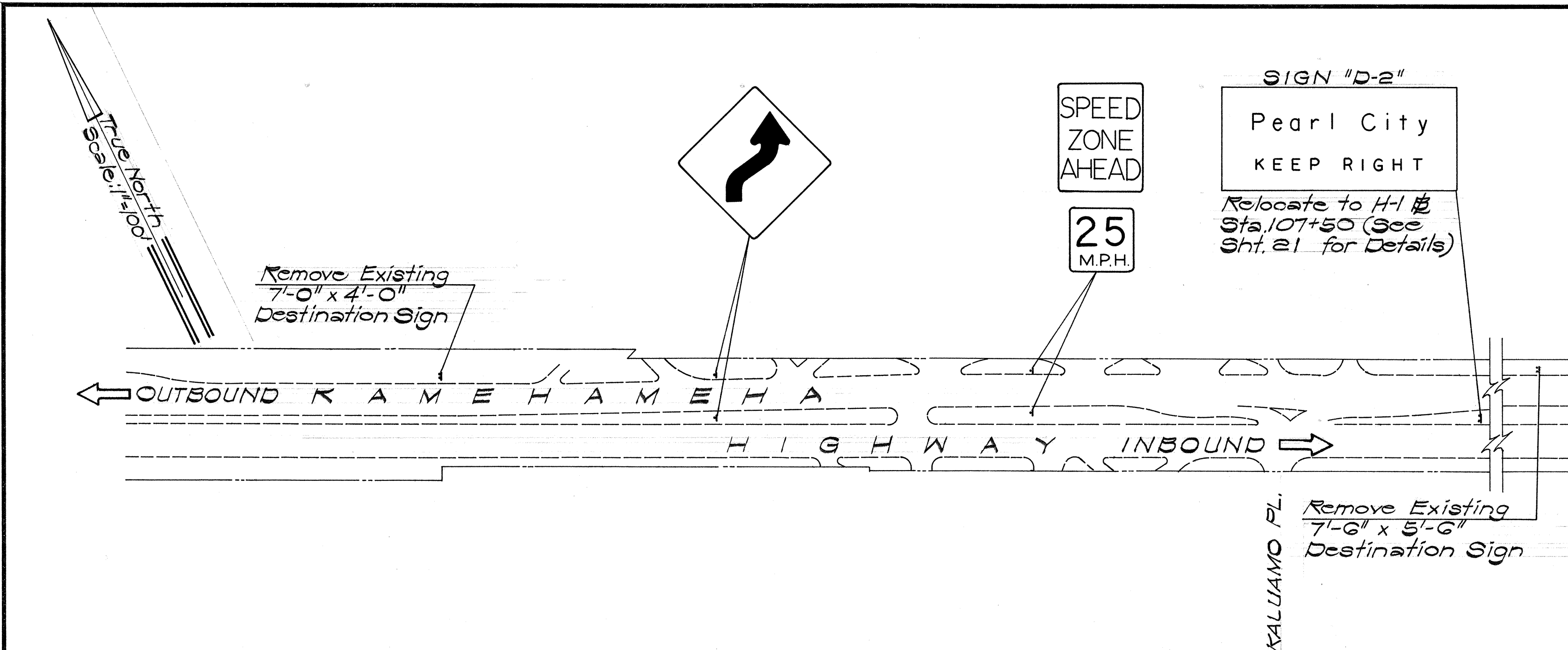
STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

REMOVAL OF EXISTING TEMPORARY KAM. HWY. CONNECTION

INTERSTATE ROUTE H-1
PROJ. No. I-H-1 (66) 10

Scale: As Shown Date: _____

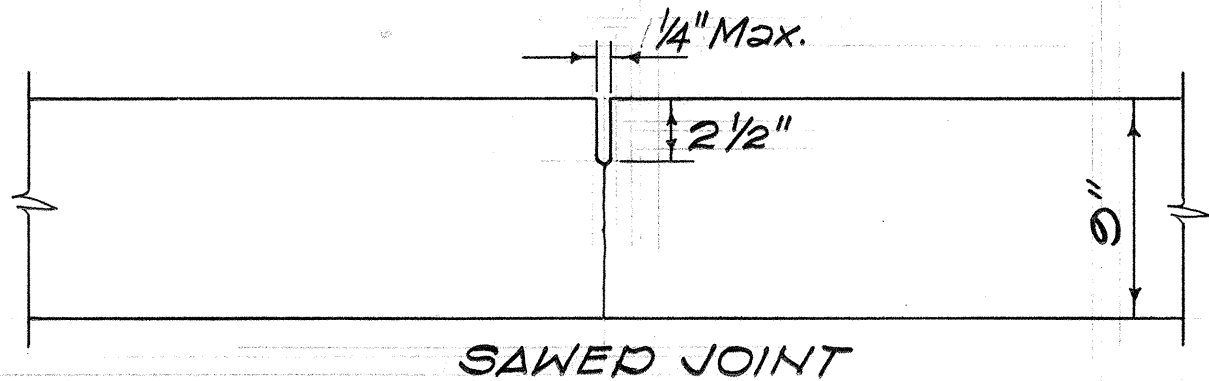
SHEET No. 3 OF 3 SHEETS



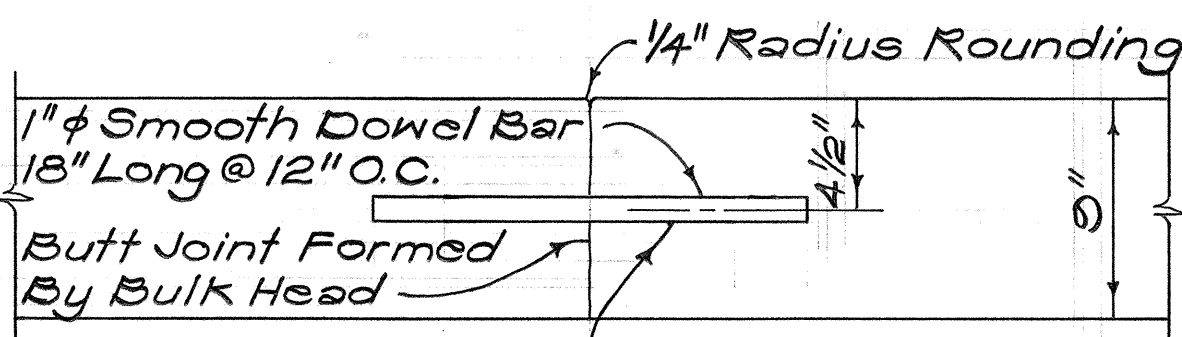
PLAN
INTERSECTION @ KAM. HWY. & MOANALUA ROAD

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

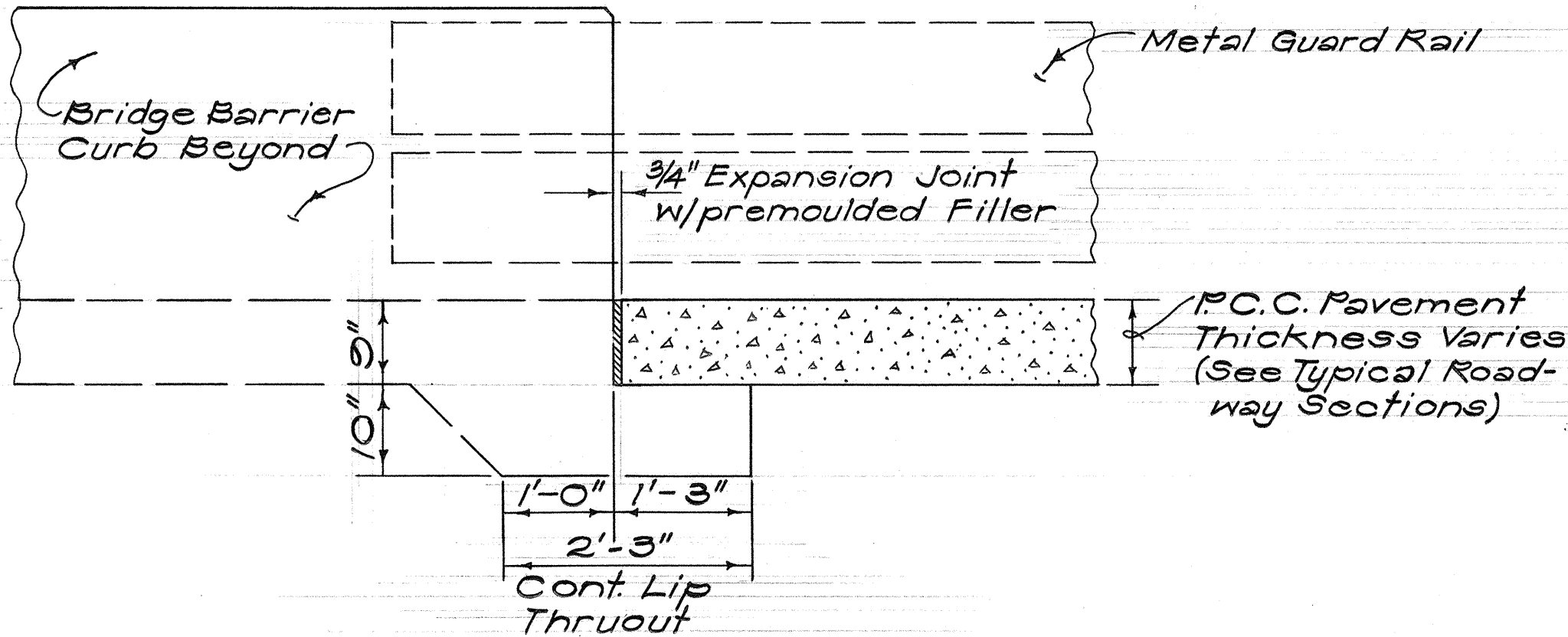
FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-H-1(66)10 I-H-1(67)10	1970	62	97



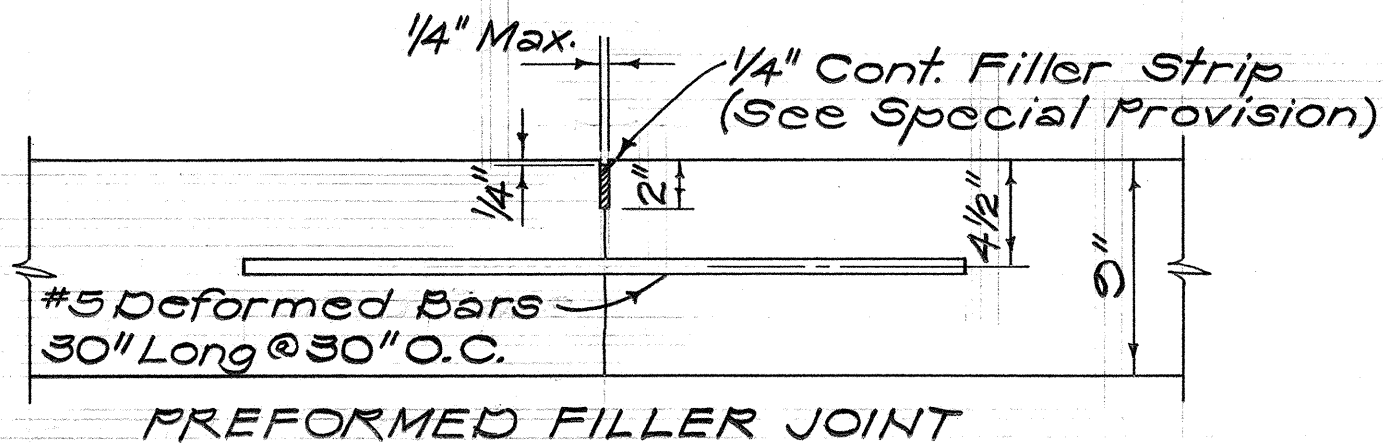
TRANSVERSE WEAKENED PLANE
(CONTRACTION) JOINT



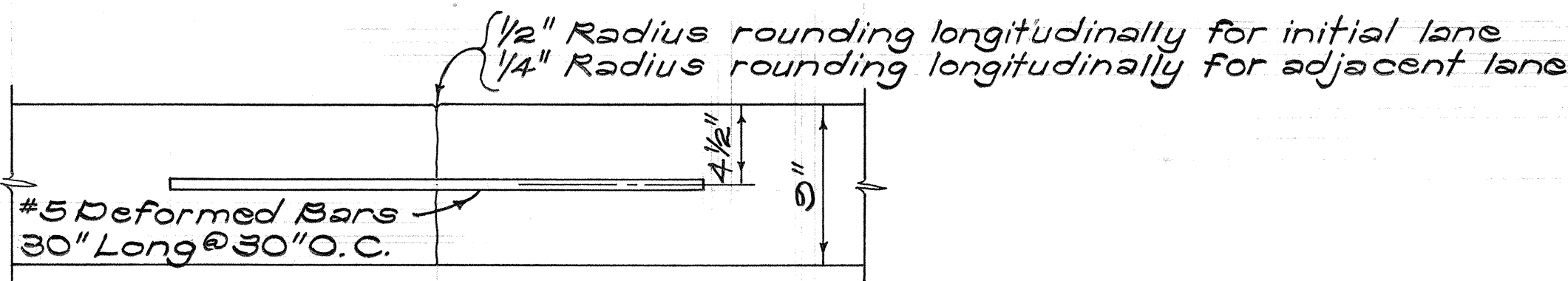
TRANSVERSE CONSTRUCTION
(CONTACT) JOINT



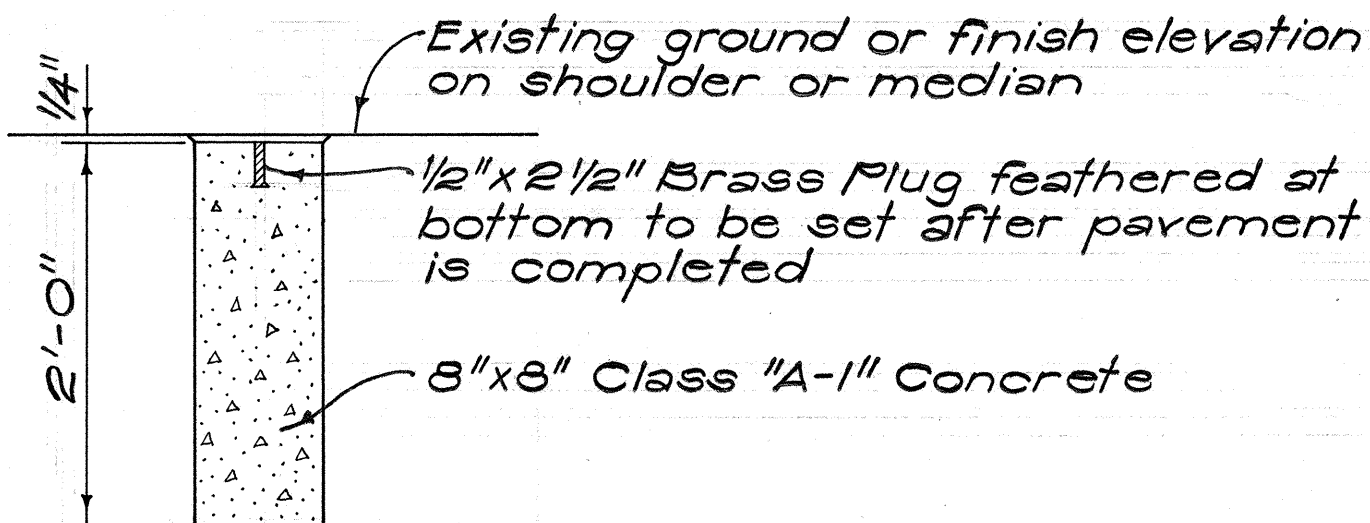
TYPICAL APPROACH SLAB-
P.C.C. PAVEMENT CONNECTION
Scale: 3/4" = 1'-0"



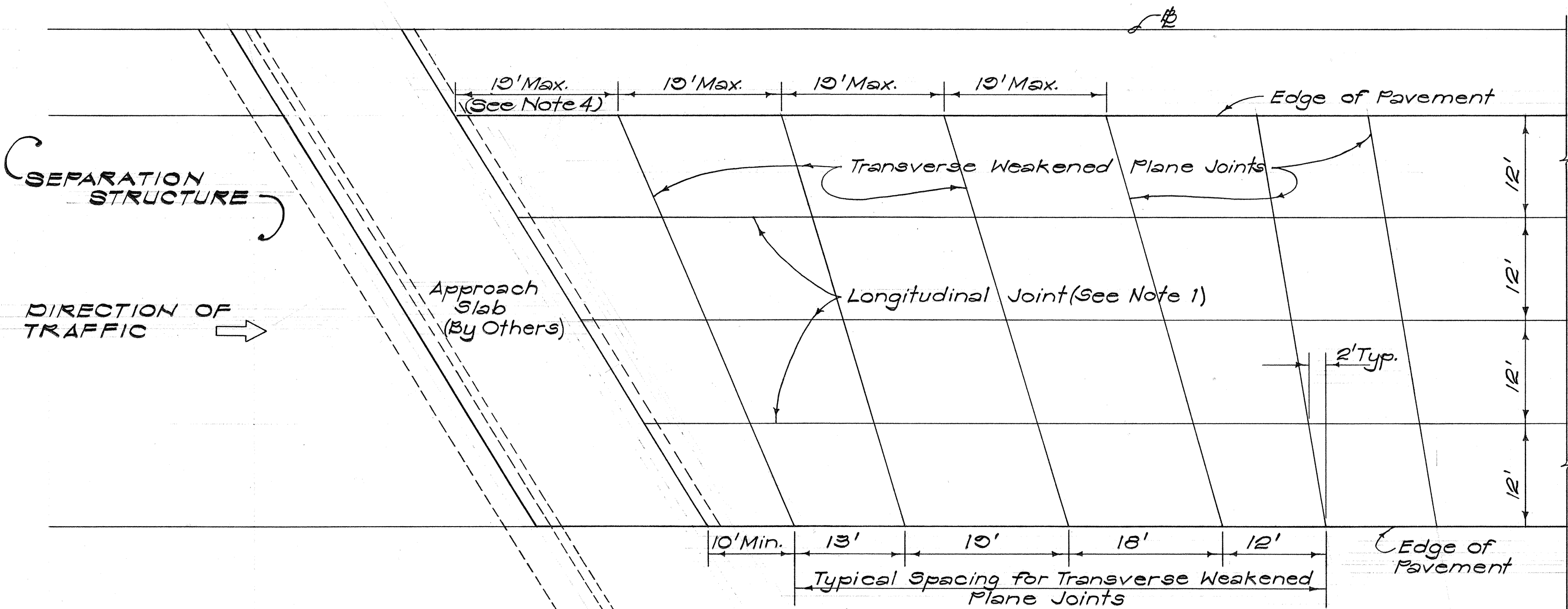
LONGITUDINAL WEAKENED PLANE
(CONTRACTION) JOINT



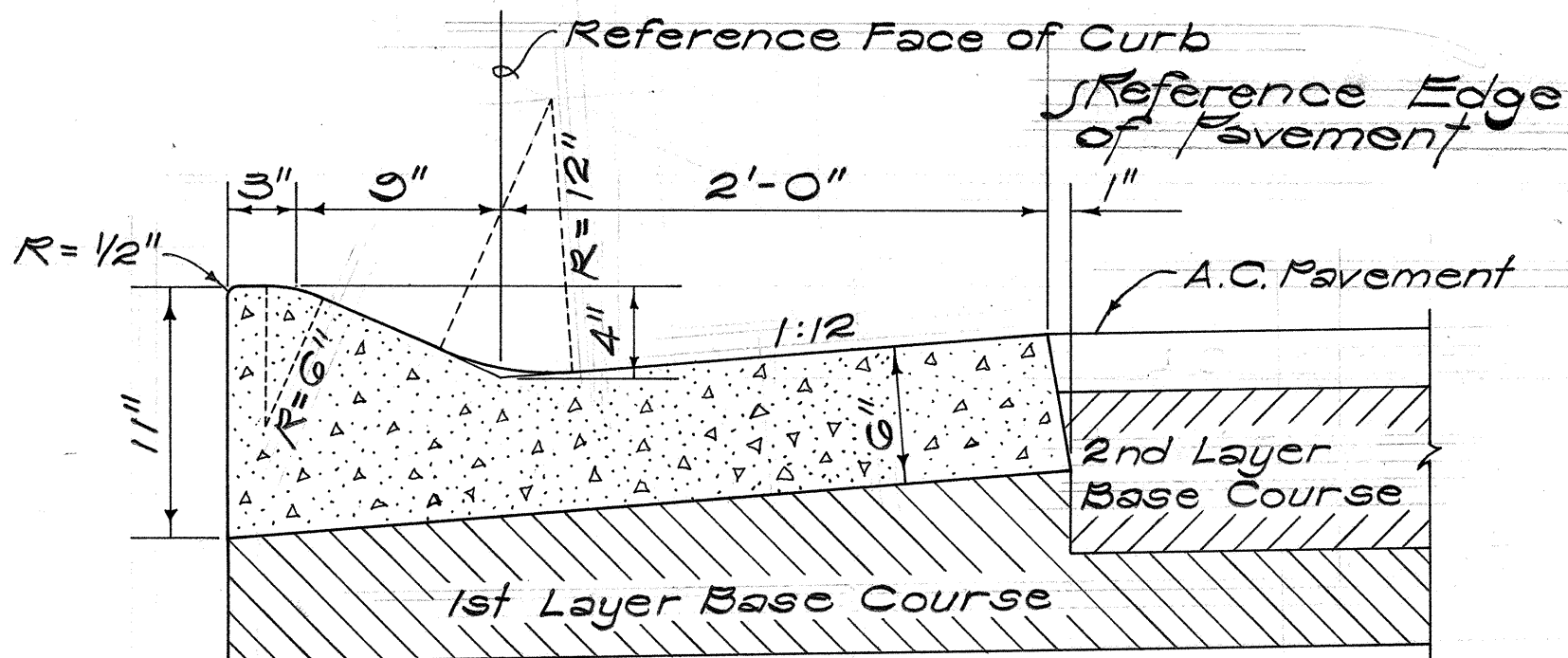
LONGITUDINAL CONSTRUCTION
(CONTACT) JOINT



DETAIL FOR & REFERENCE
SURVEY MONUMENT
Scale: 1" = 1'-0"



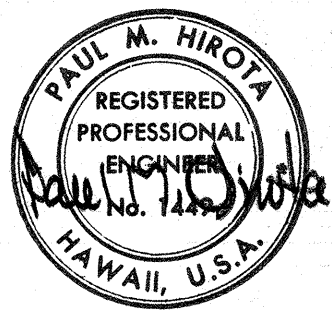
TYPICAL JOINT LOCATION AND LAYOUT PLAN
Scale: 1" = 10'



TYPE "2EG" CAST-IN-PLACE
CONC. CURB & GUTTER
Scale: 1/2" = 1'-0"

GENERAL NOTES - P.C.C. JOINTS

- The longitudinal weakened plane joint detail shall be applicable at the intermediate traffic lane edge when 2 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.
- 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 with an offset of 2' for every 12' of lane width from the perpendicular to the baseline.
- Transverse weakened plane joints shall be spaced at intervals of 13', 19', 18', and 12' in the direction of traffic. Repeat for the remaining joints.
- Where bridge abutments are skewed from the perpendicular to the baseline, transverse weakened plane joints on the near side shall be spaced as directed in notes 3 & 5 and the spacing on the far side shall be 19' max. until the typical joint offset indicated in note 2 is obtained.
- Transverse contact joints shall be located at a minimum distance of 10' from the nearest planned transverse weakened plane joint.



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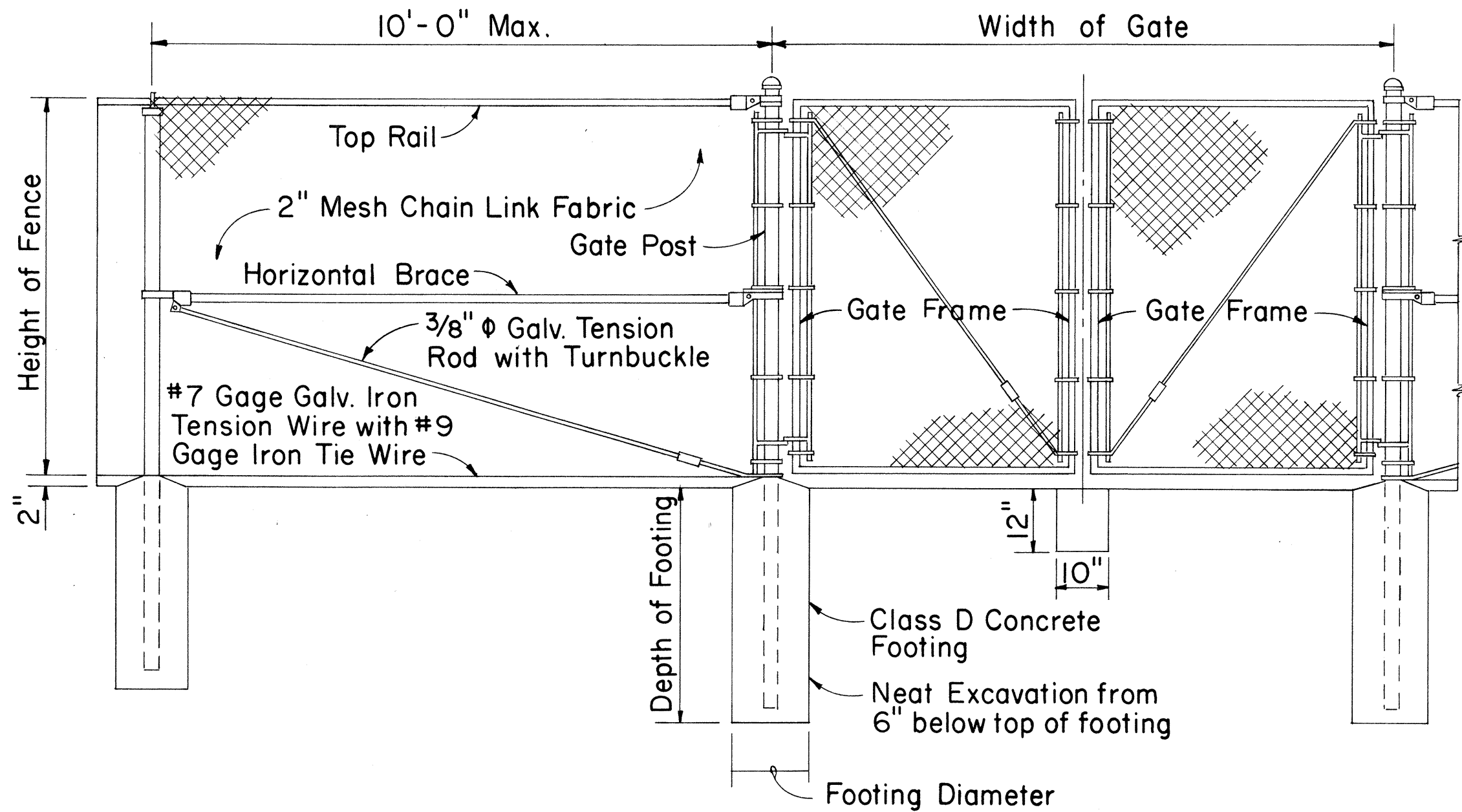
STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

MISCELLANEOUS
ROADWAY DETAILS

INTERSTATE ROUTE H-1
PROJ. NO. I-H-1(66):10

Scale: As Shown Date
SHEET No. 1 OF 1 SHEETS

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-41-(66)10 I-41-(67)10	1970	63	97



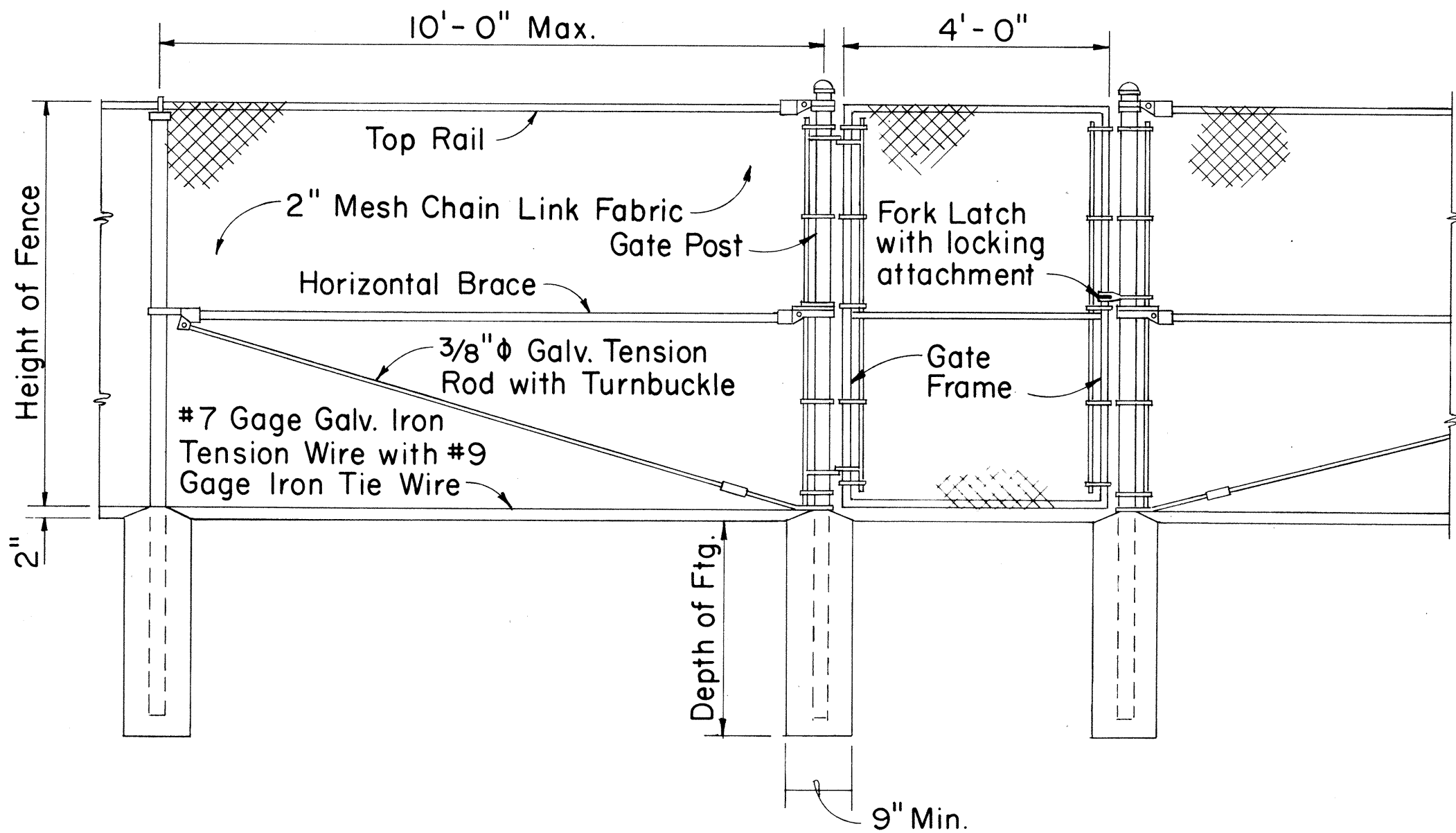
LINE POST

GATE POST

GATE POST

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.

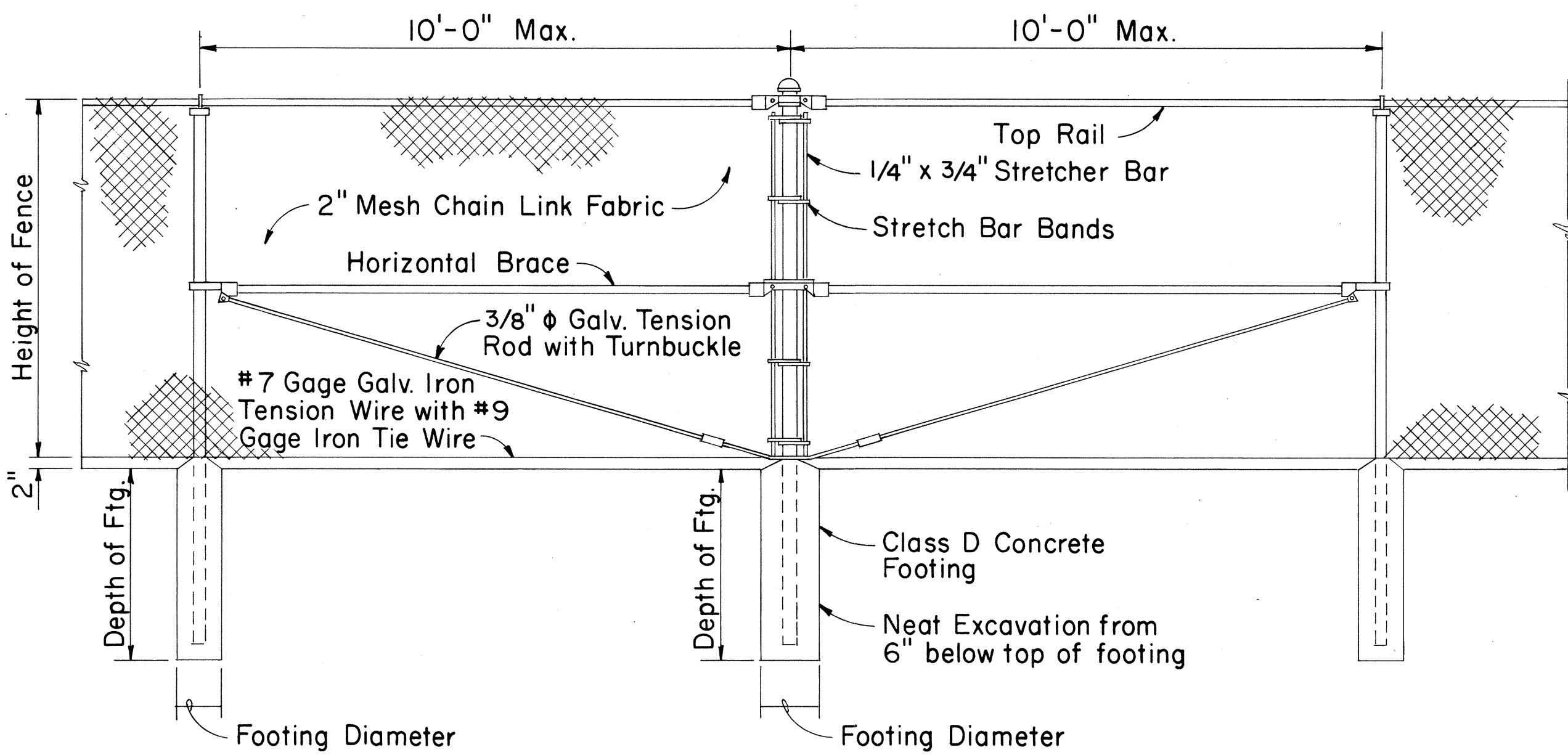


LINE POST

GATE POST

GATE POST

DETAIL OF 4 FT. CHAIN LINK GATE

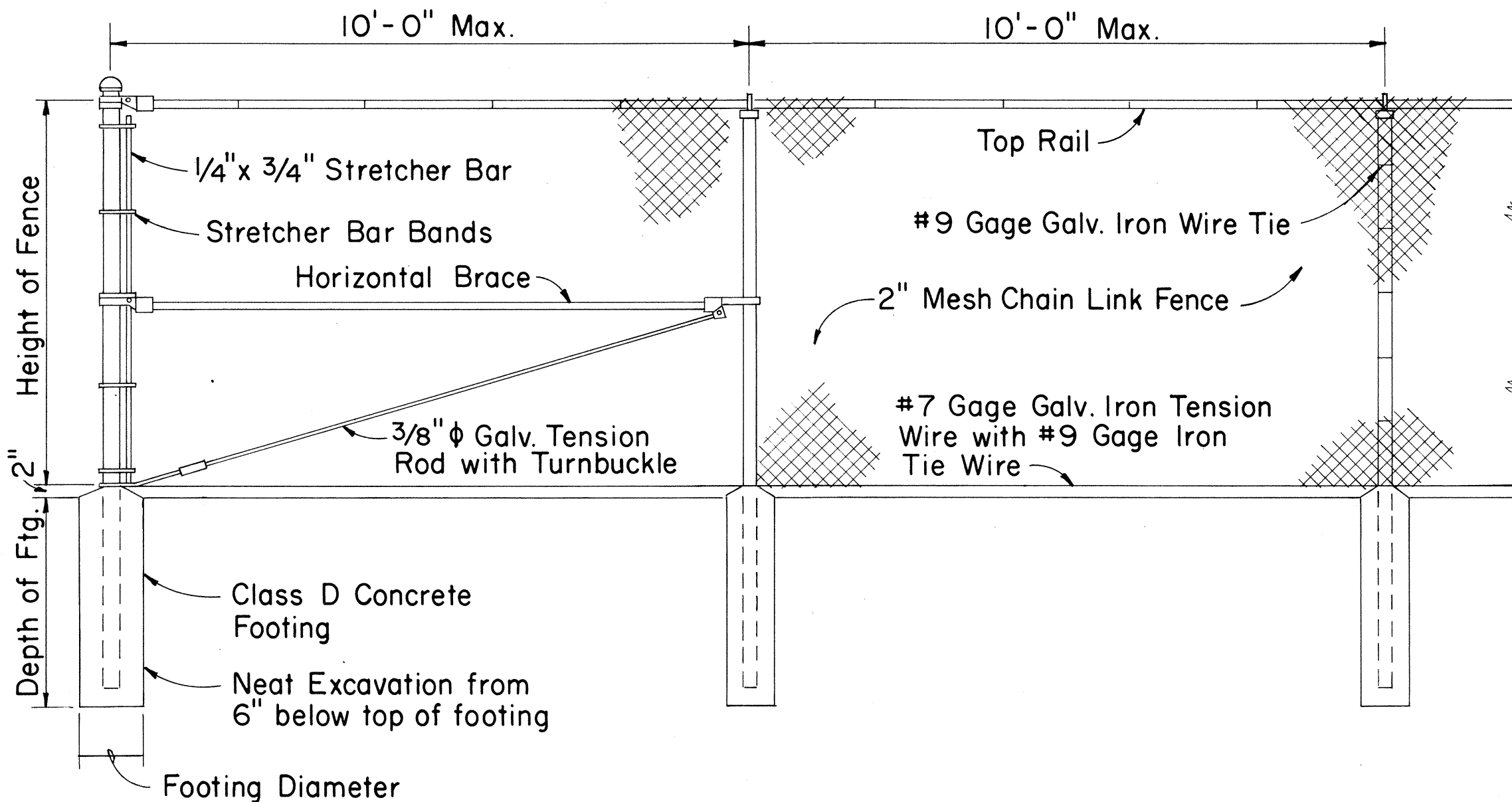
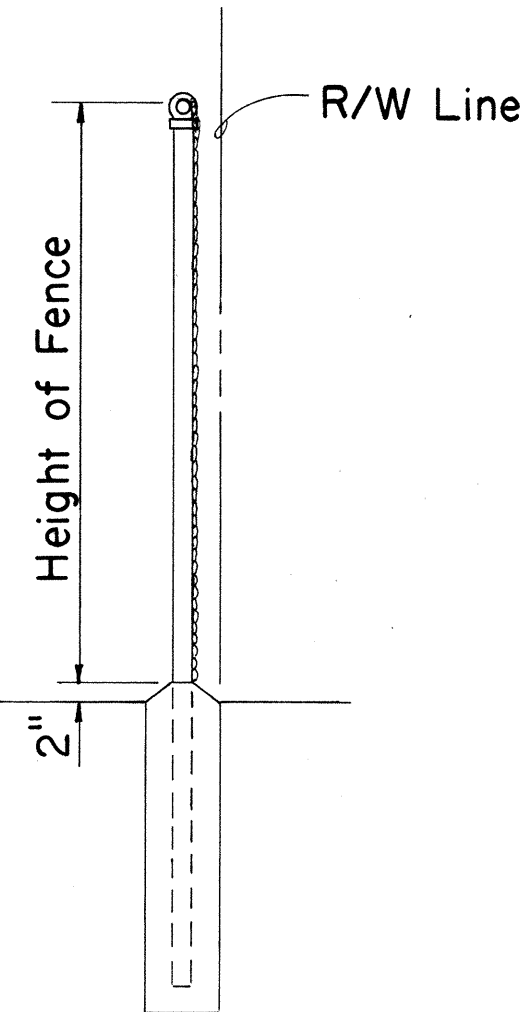


LINE POST

PULL POST

LINE POST

TYPICAL SECTION (WITH CONCRETE FOOTING)

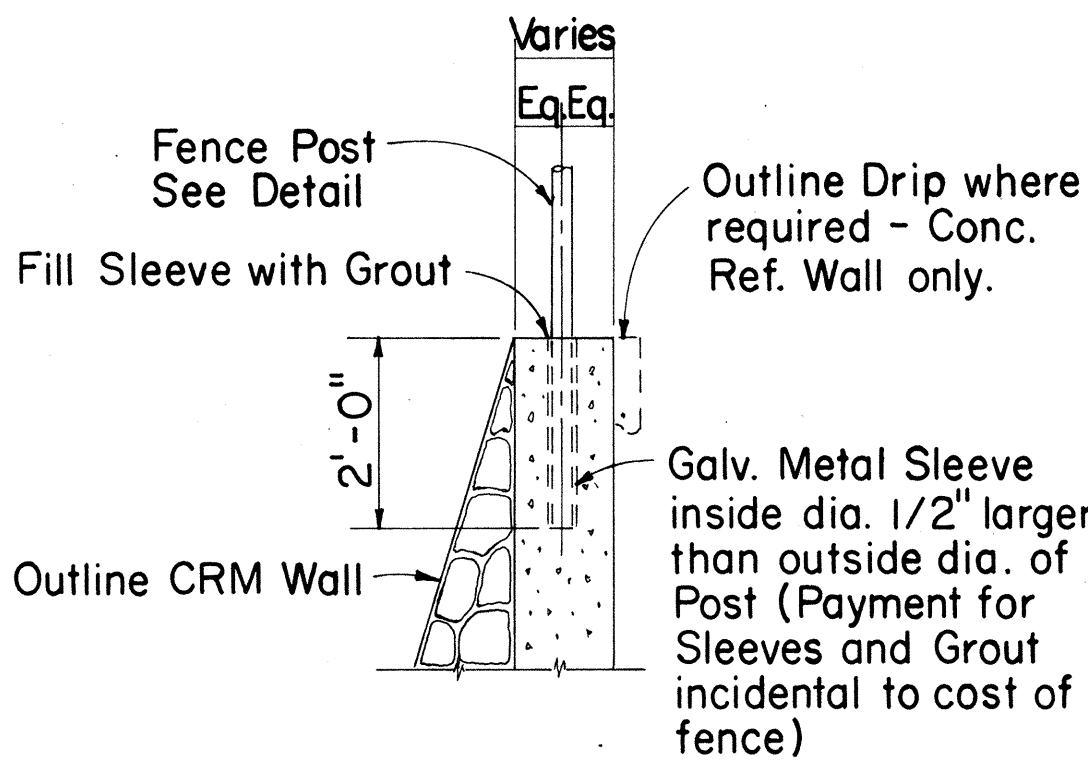


END POST

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"

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

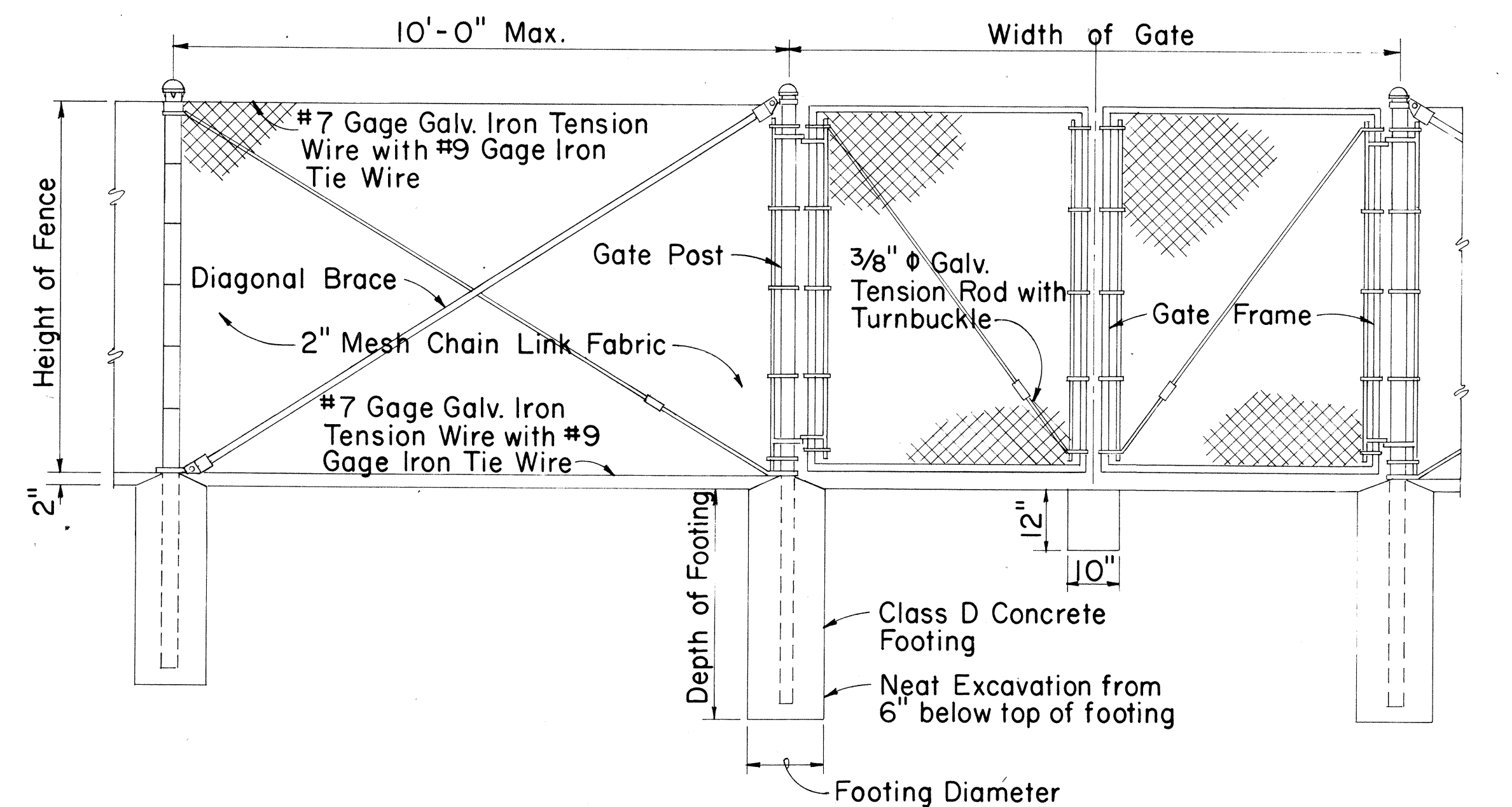
**STANDARD DETAILS
CHAIN LINK FENCE
DETAILS**

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

SHEET No. / OF 2 SHEETS

ORIGINAL PLAN	DATE
DRAWN BY	
DESIGNED BY	
CHECKED BY	
NOTED BY	
No.	

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	HI-1(66)10 HI-1(67)10	1970	64	97



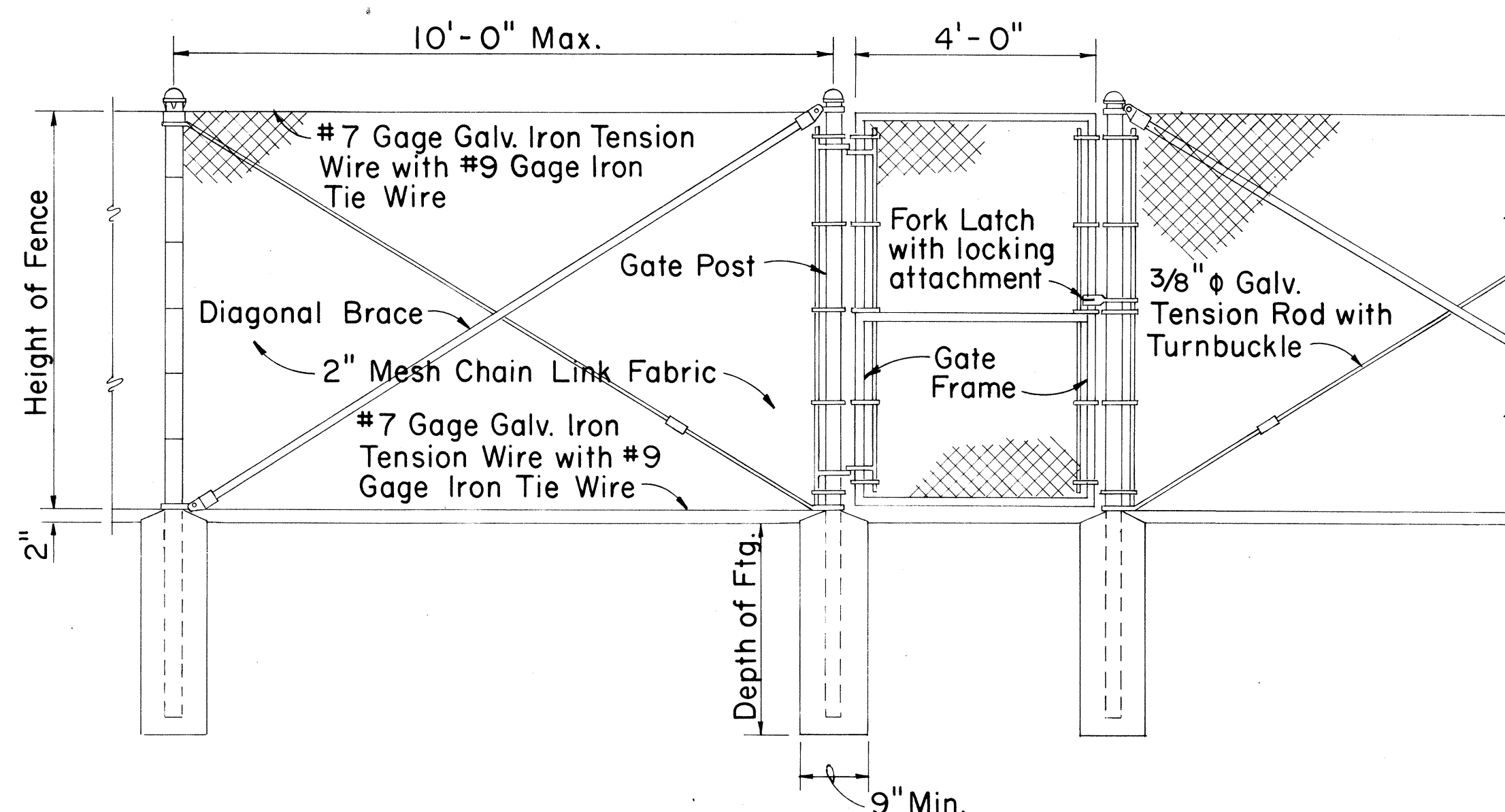
LINE POST

GATE POST

GATE POST

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.

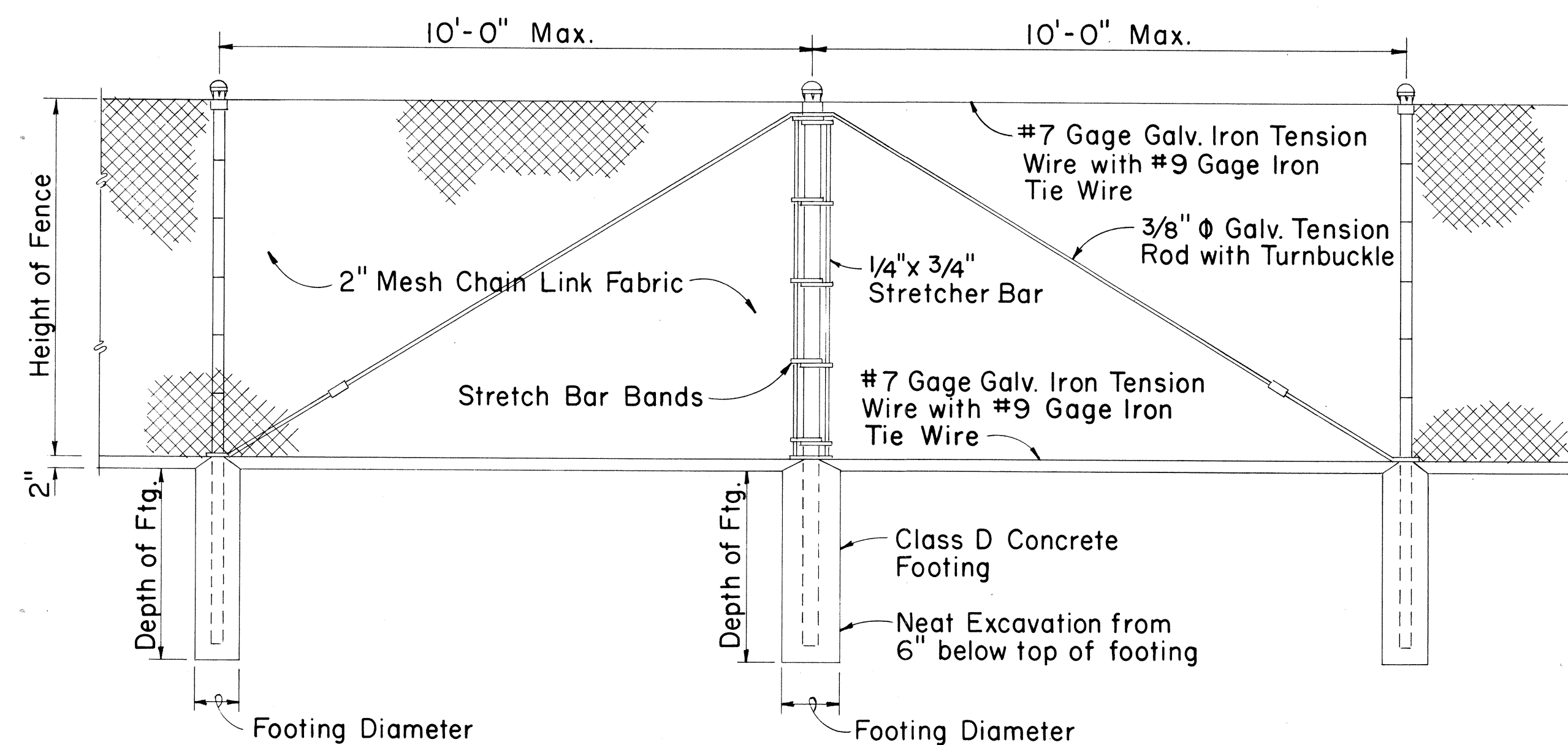


LINE POST

GATE POST

GATE POST

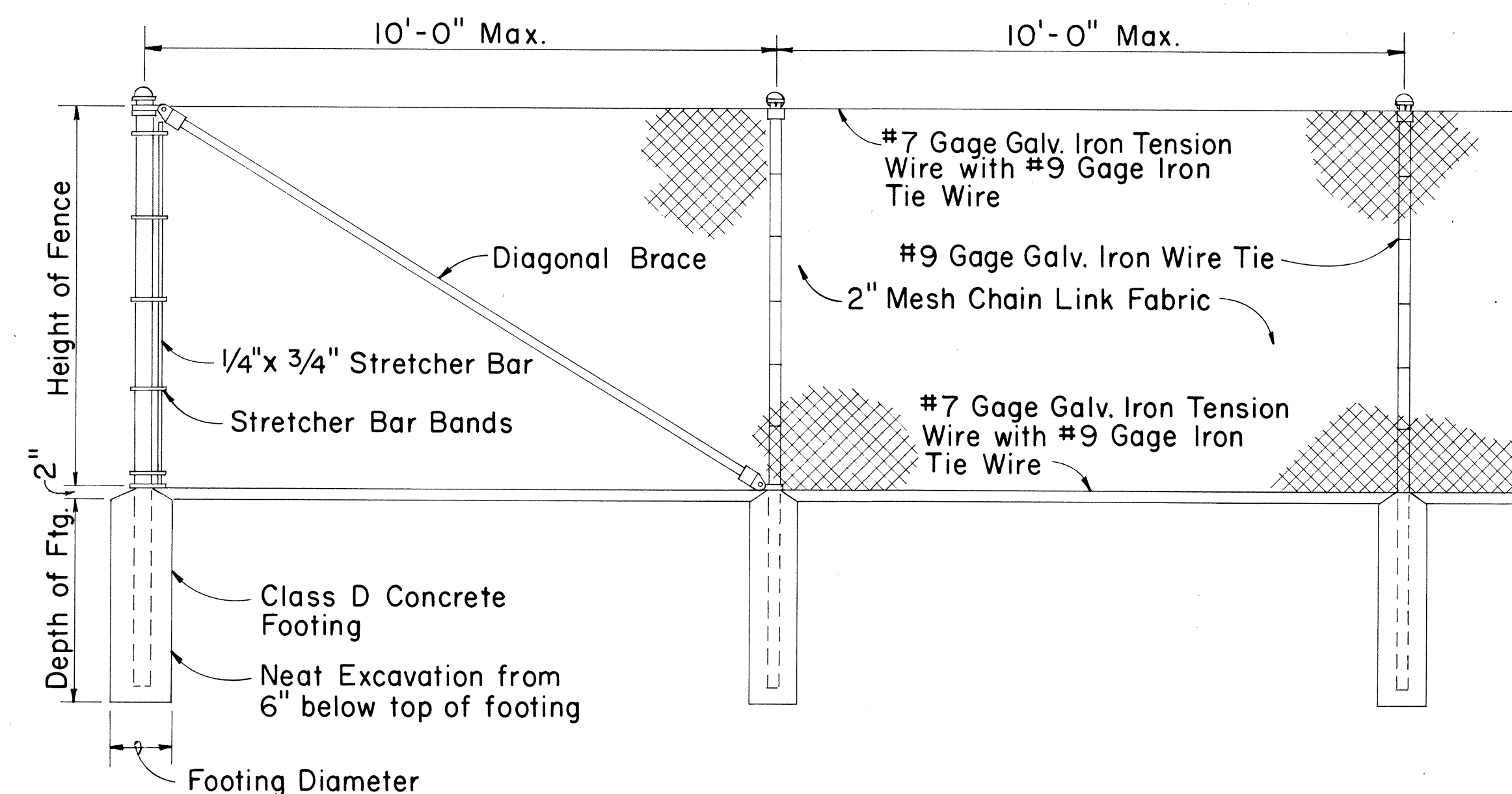
DETAIL OF 4 FT. CHAIN LINK GATE



LINE POST

PULL POST

LINE POST



END POST

LINE POST

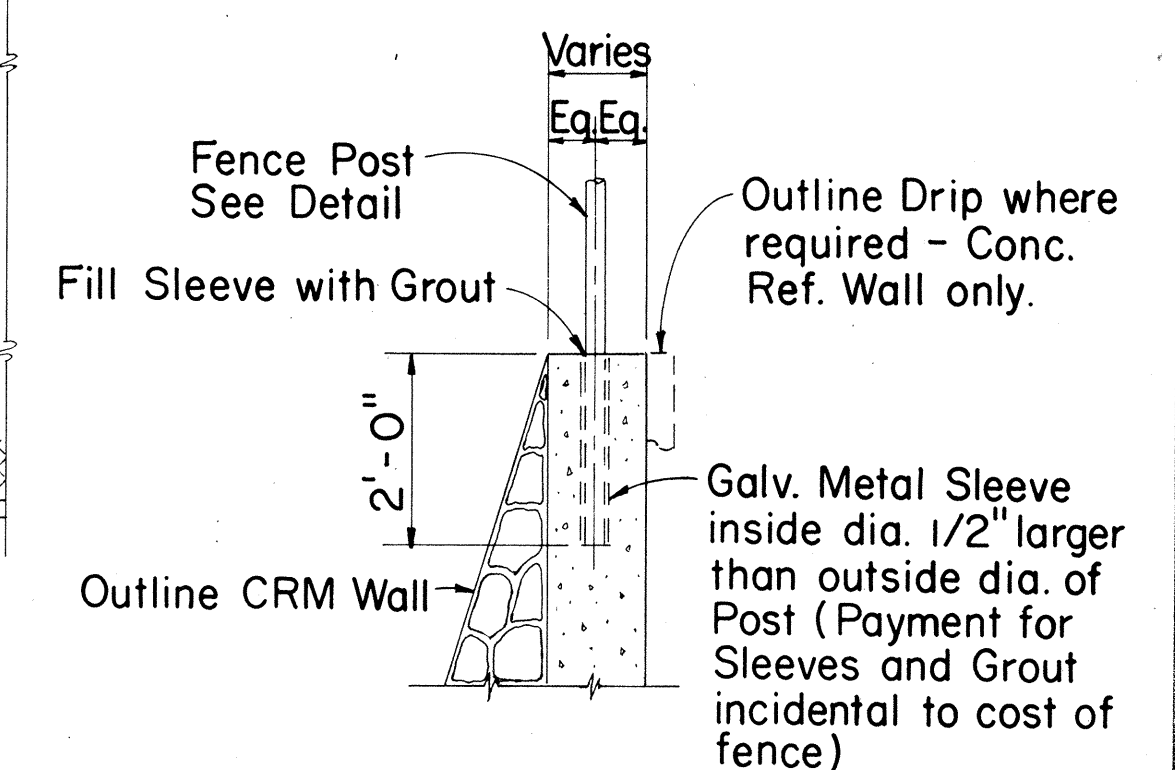
LINE POST

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"

NOTE: Footing diameter for gate post shall be a minimum of 3 times the outside diameter of the gate post as specified and shall be in no case less than 8 inches.

TYPICAL SECTION (WITH CONCRETE FOOTING)



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

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

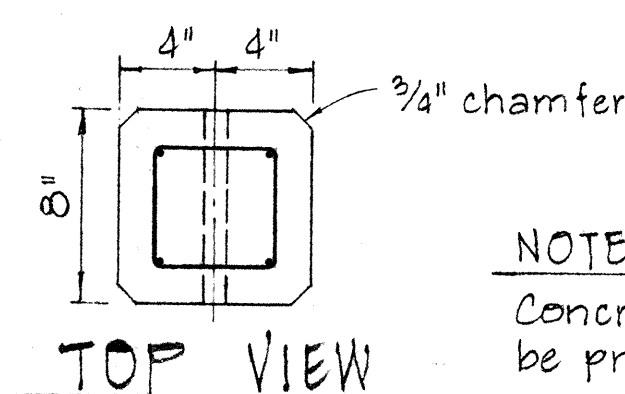
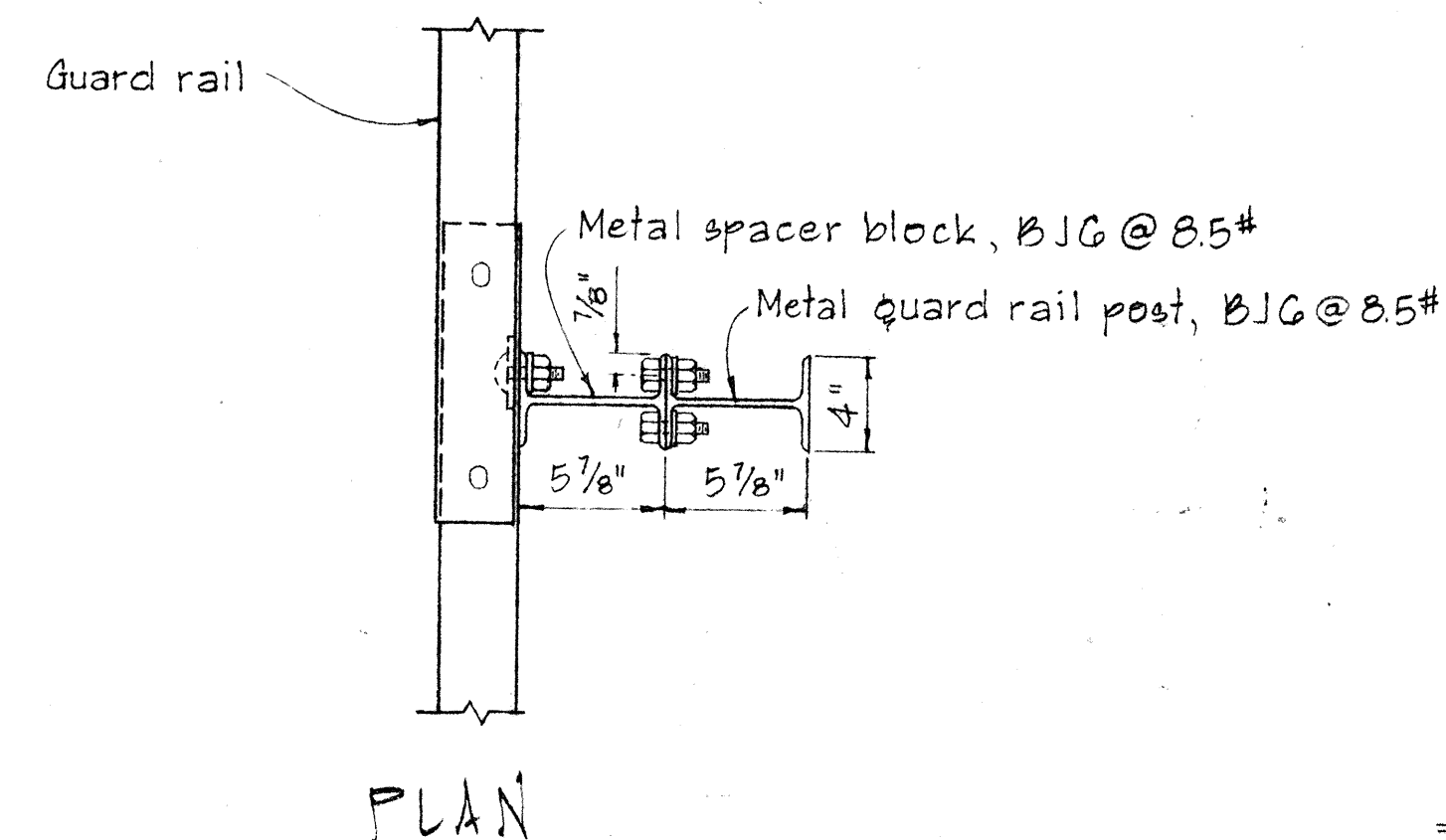
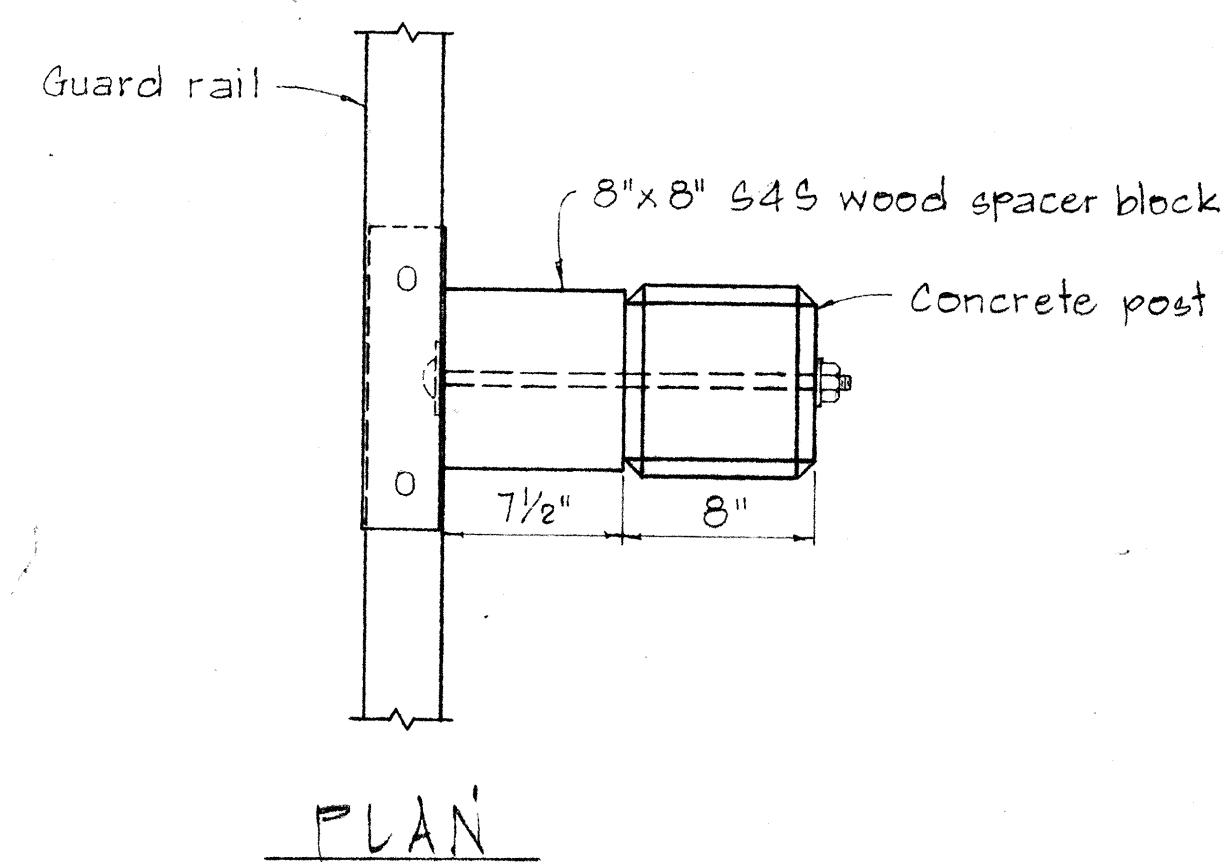
**STANDARD DETAILS
CHAIN LINK FENCE
DETAILS**

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

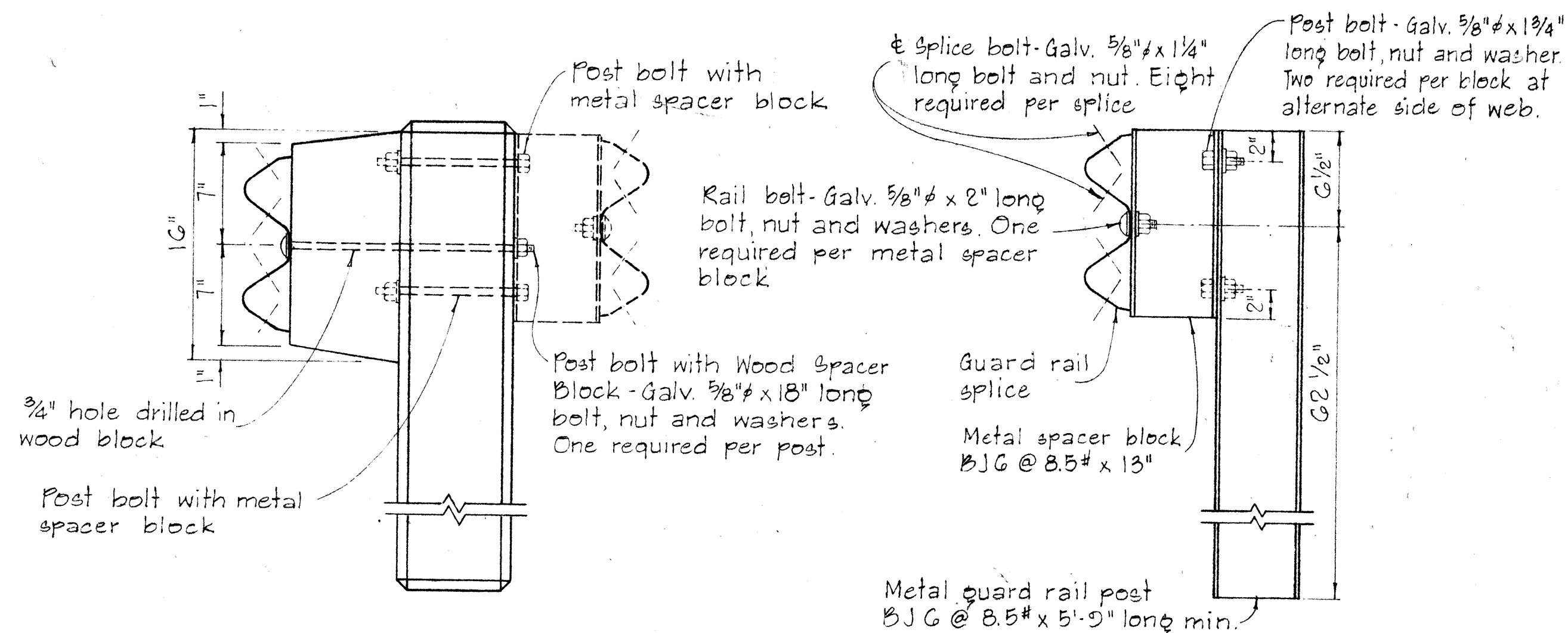
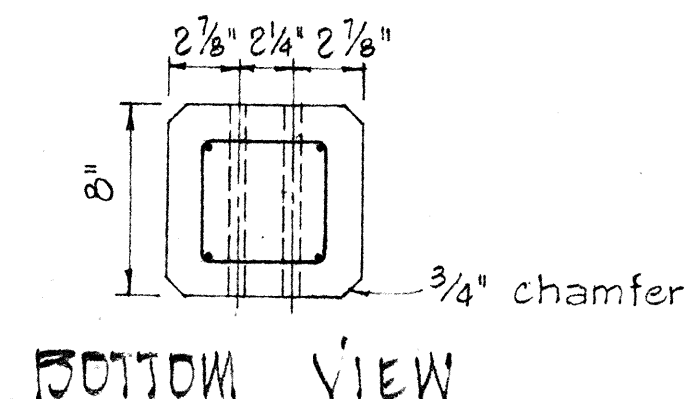
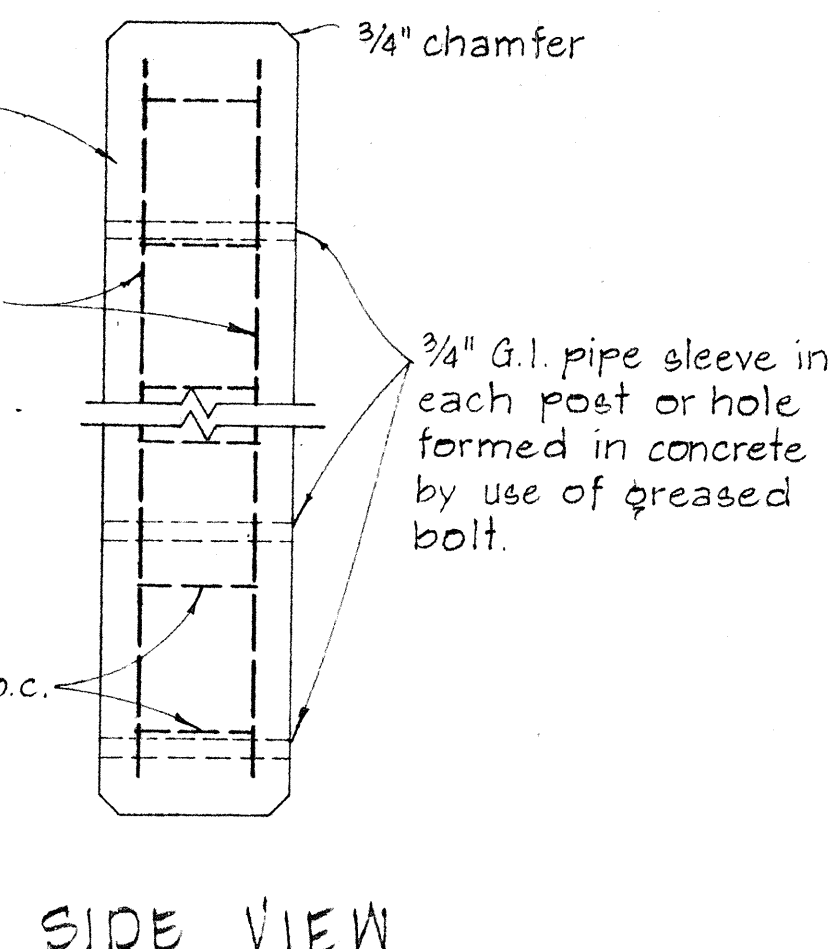
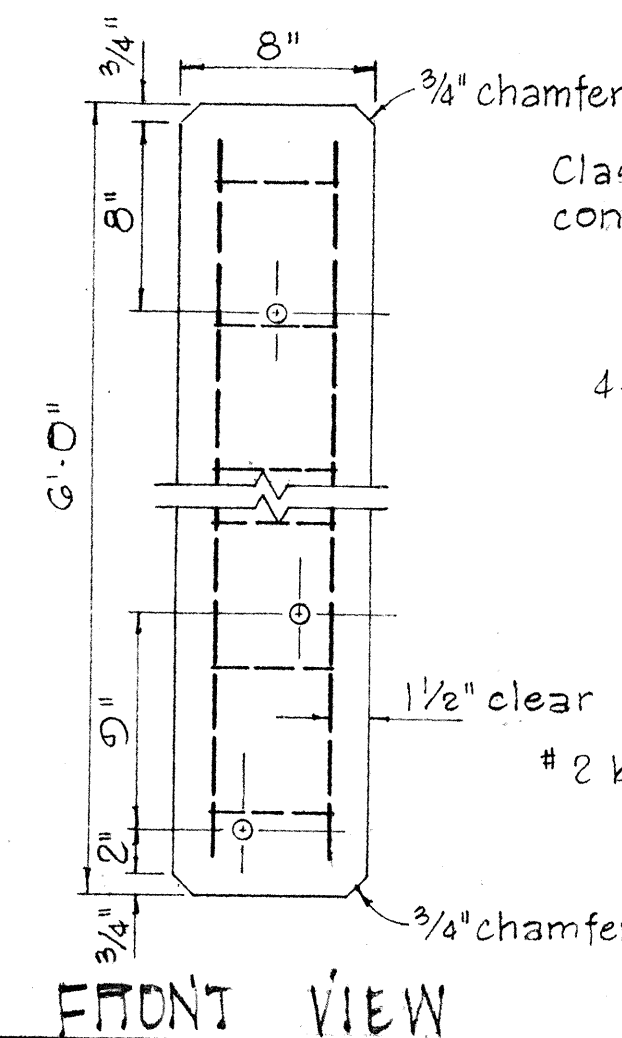
SHEET No. 2 OF 2 SHEETS

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	HA-11(66)10 HA-11(67)10	1970	66	97

REVISED: 12-11-68
REVISED: 2-26-69

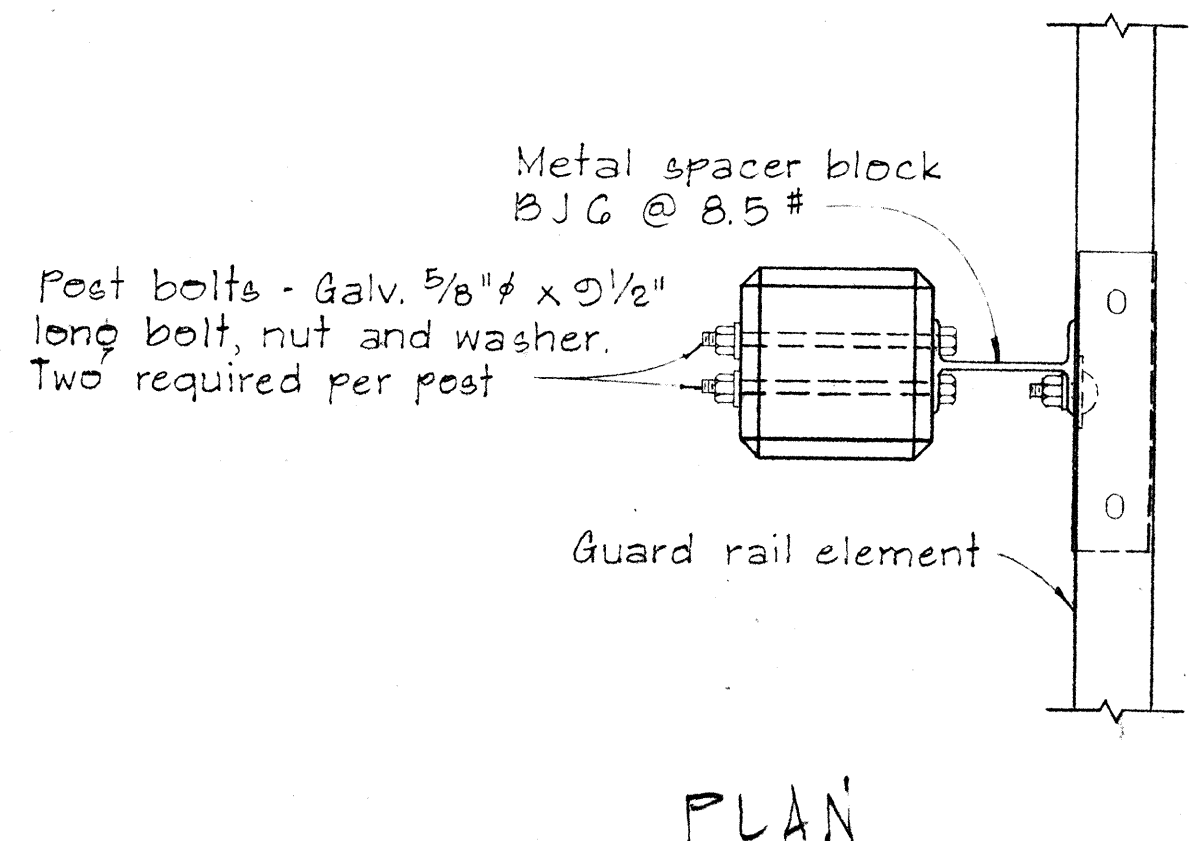


NOTE:
Concrete post shall be precast

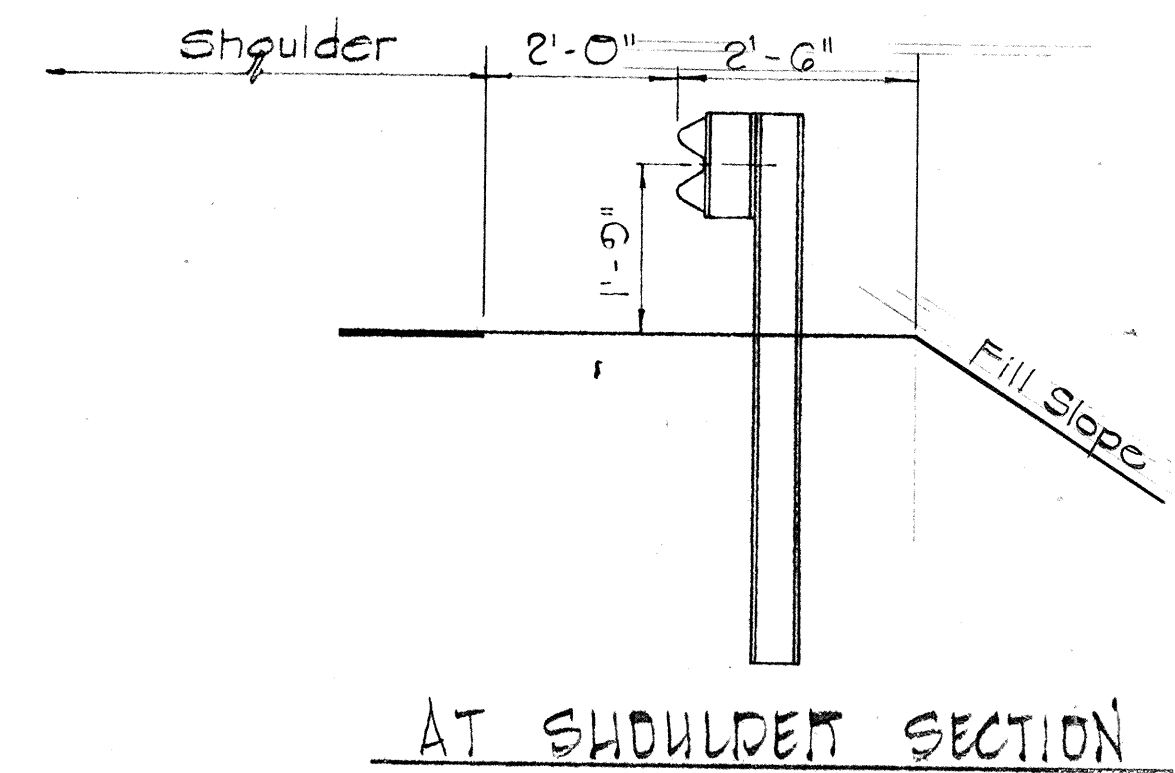


SINGLE METAL GUARD RAIL ON METAL POST
WITH METAL SPACER BLOCK
SCALE: 1 1/2" = 1'-0"

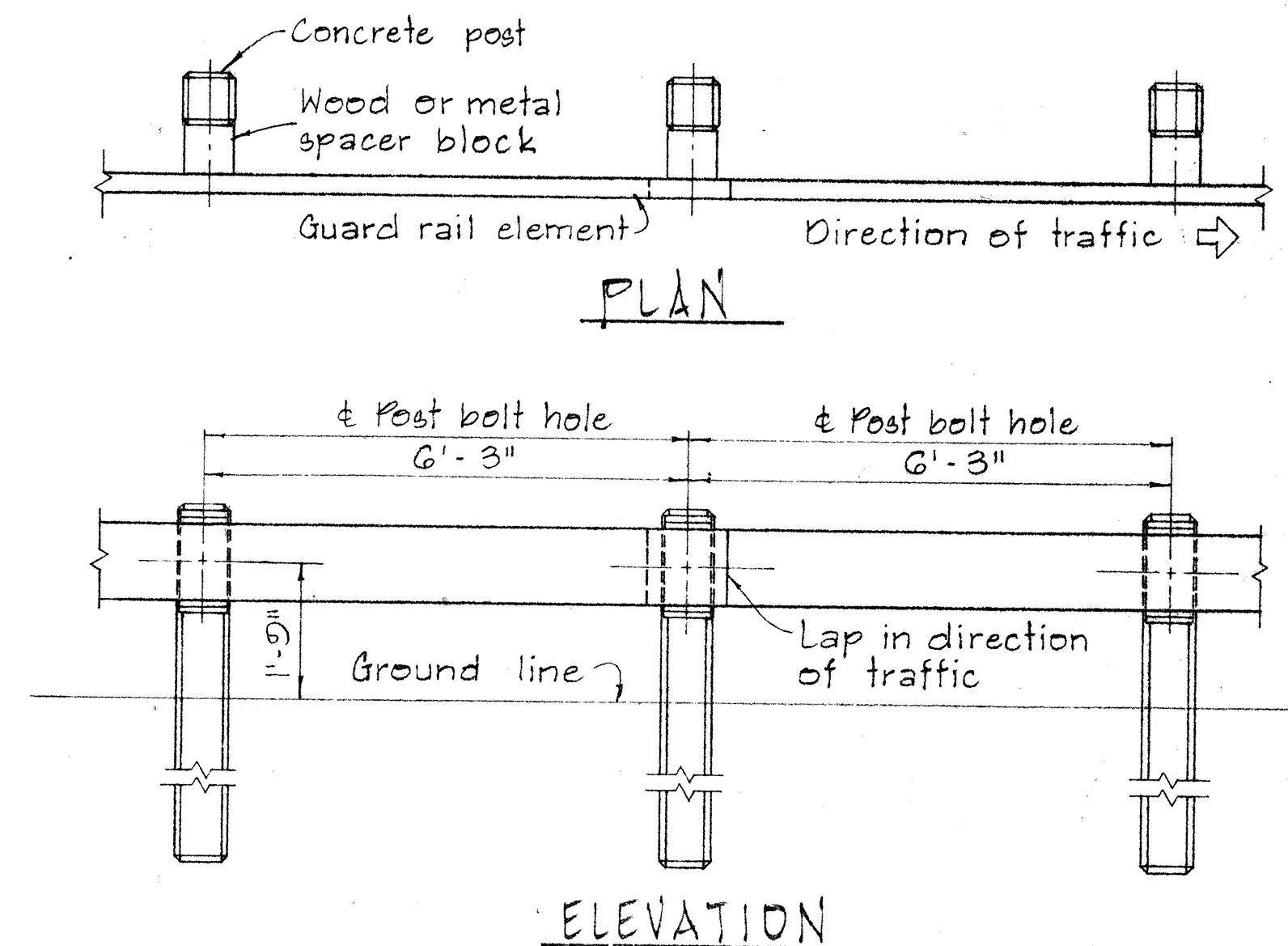
DETAIL OF CONCRETE POST
SCALE: 1 1/2" = 1'-0"



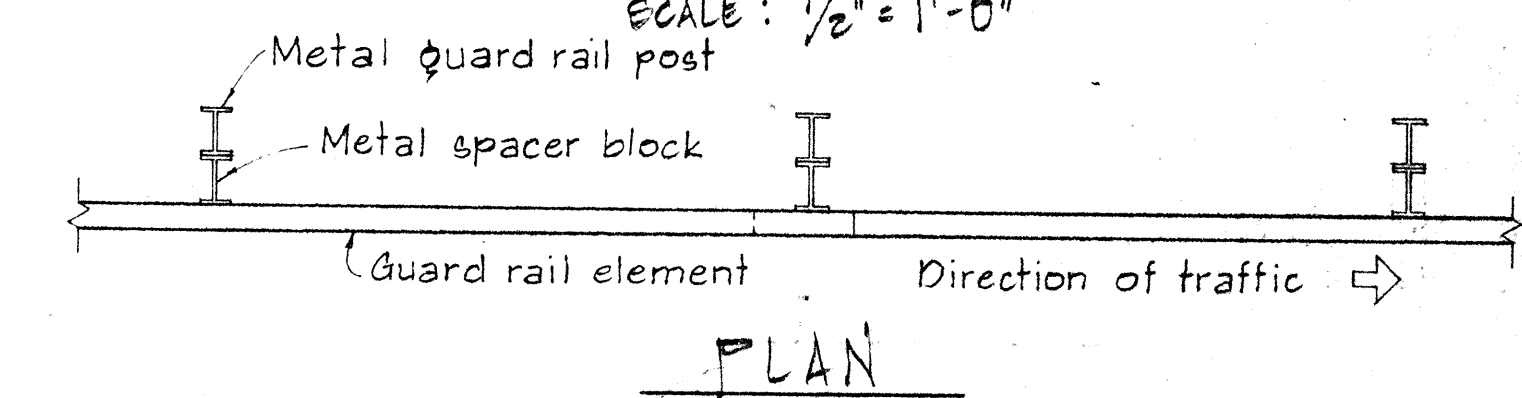
SINGLE METAL GUARD RAIL ON PRECAST
CONCRETE POST WITH WOOD OR METAL SPACER BLOCK
SCALE: 1 1/2" = 1'-0"



TYPICAL METAL GUARD RAIL DETAIL
SCALE: 1/2" = 1'-0"

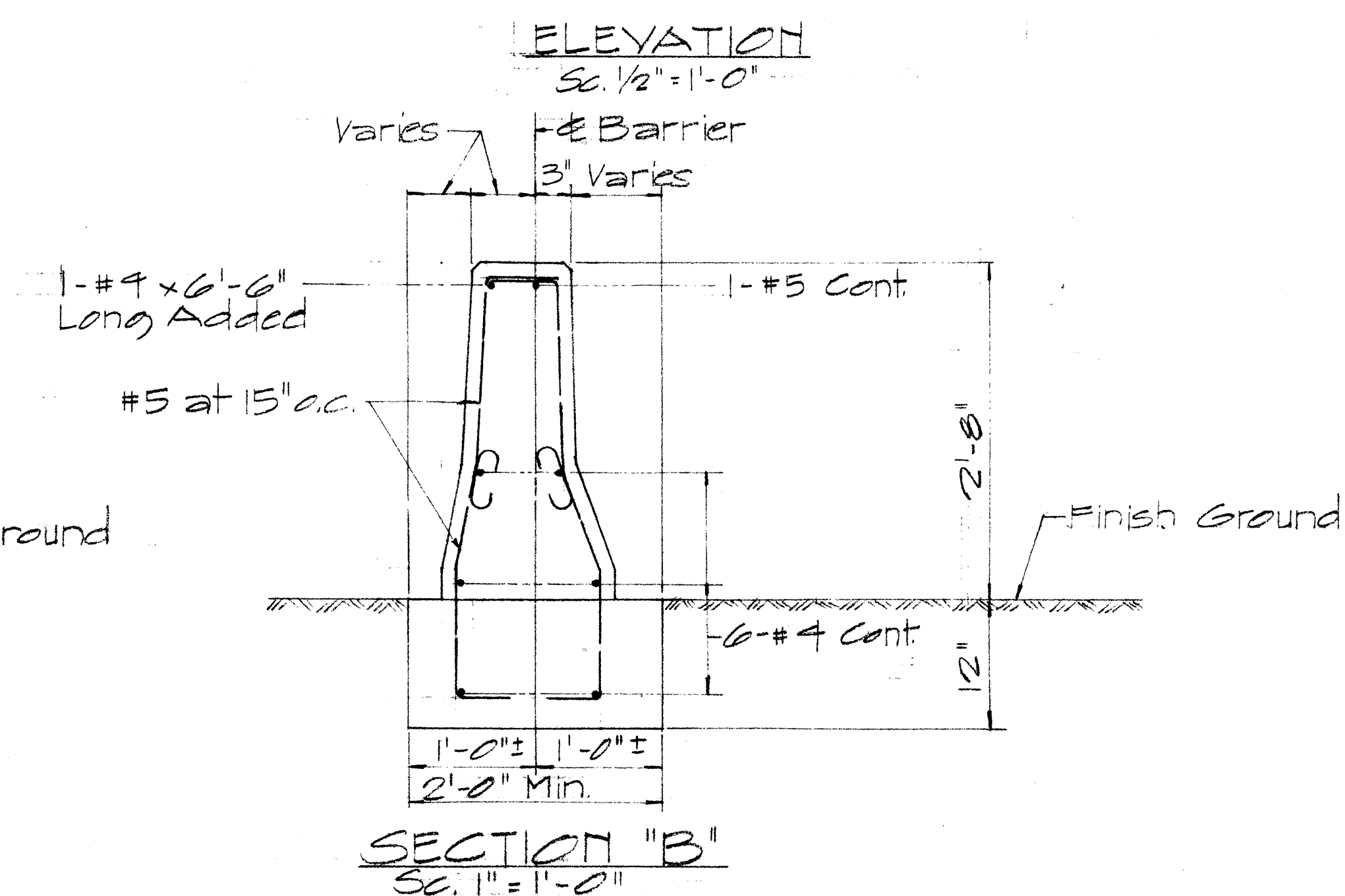
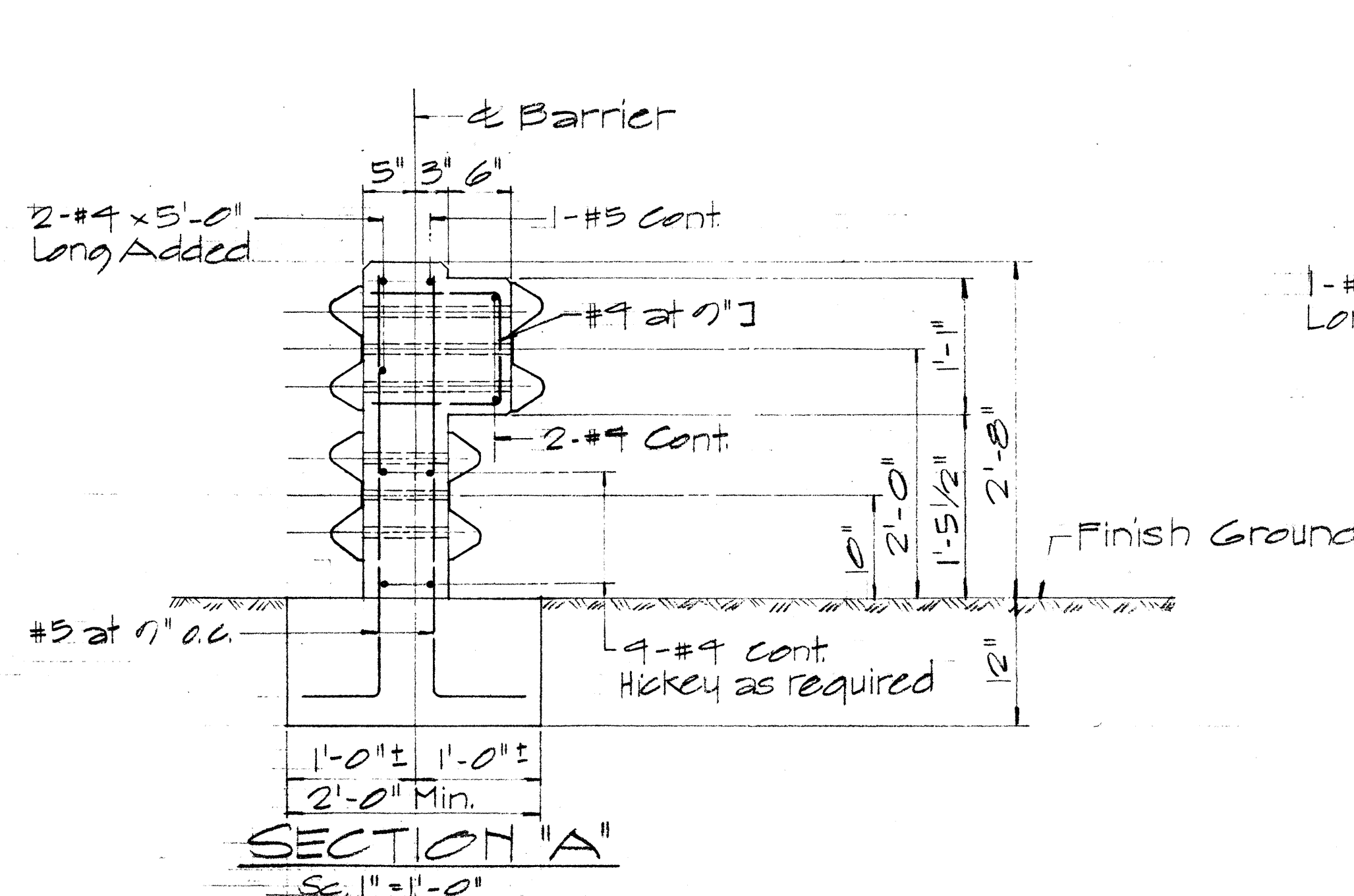
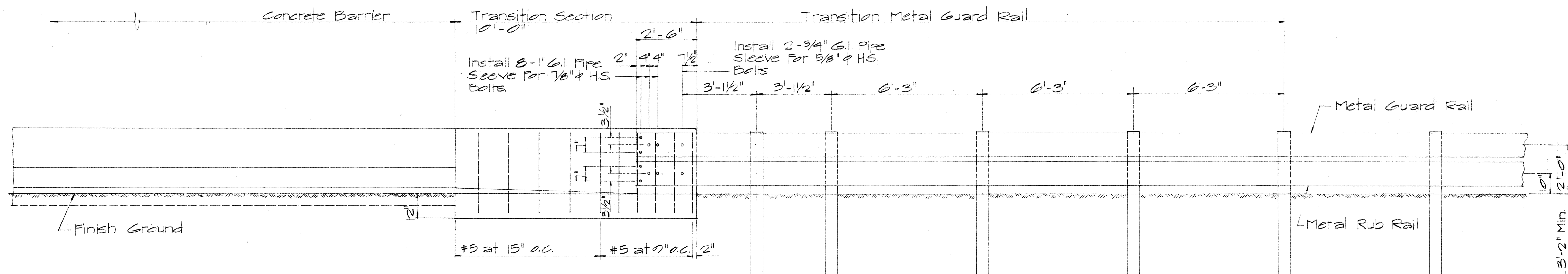
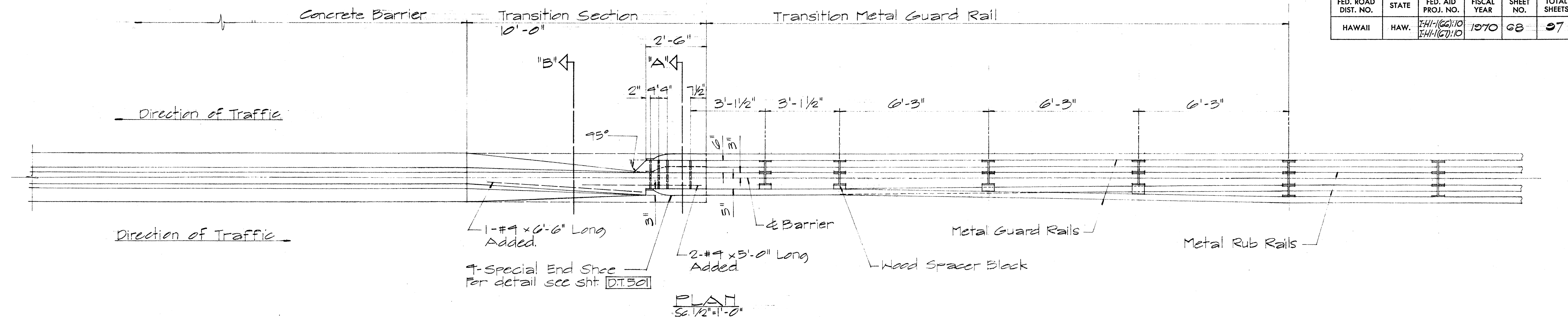


METAL GUARD RAIL ON CONCRETE POST
WITH WOOD OR METAL SPACER BLOCK
SCALE: 1/2" = 1'-0"



METAL GUARD RAIL ON METAL POST
WITH METAL SPACER BLOCK
SCALE: 1/2" = 1'-0"

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-41-1(66):10 I-41-1(67):10	1970	68	97



NOTE:
For anchoring metal guard rail elements to concrete barrier, the Contractor shall furnish and install reinforcing steel, bolts of appropriate lengths and size with appropriate washers, nuts, wooden blocks and pipe sleeves. (Payments shall be incidental to concrete barrier.)

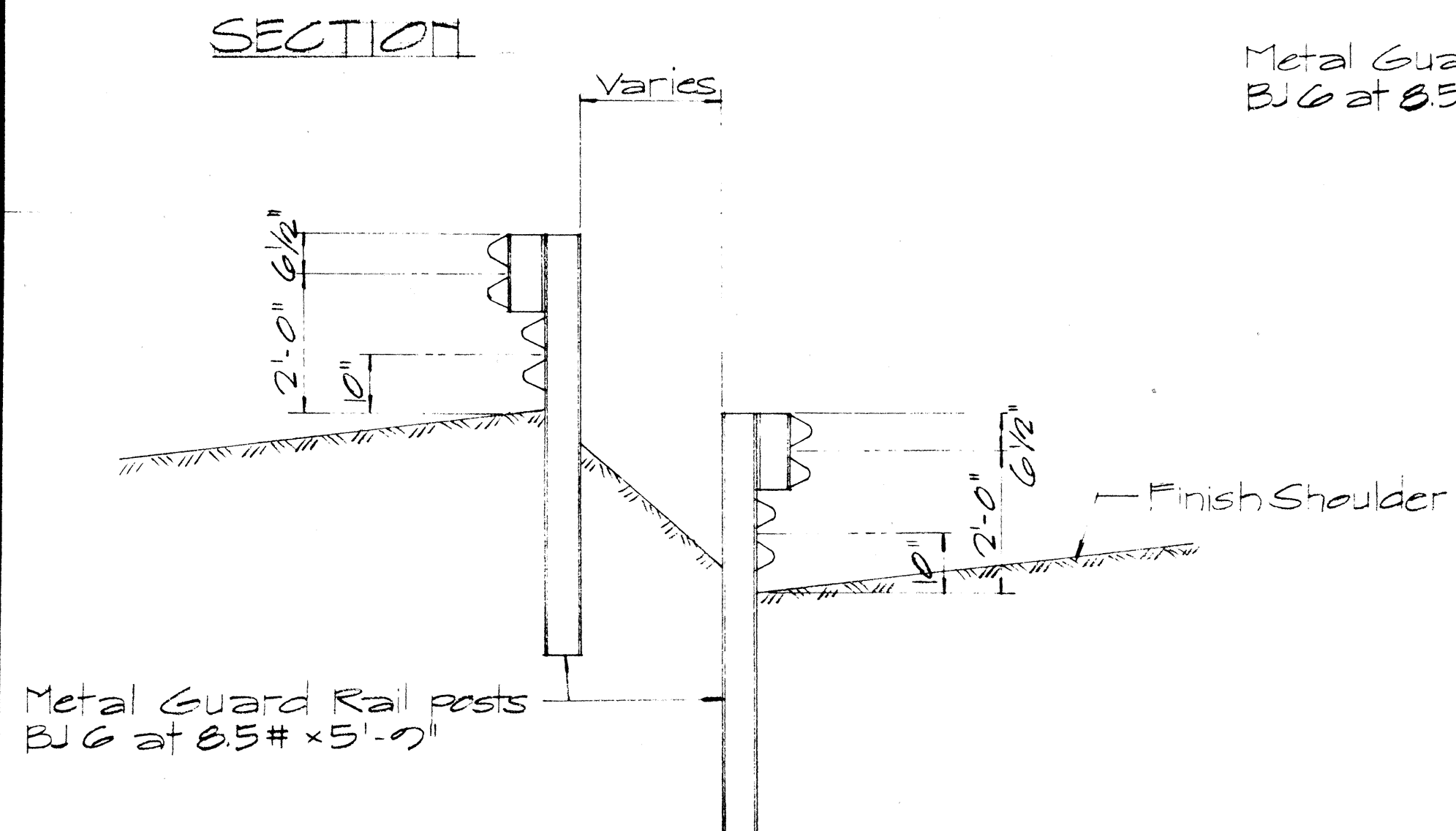
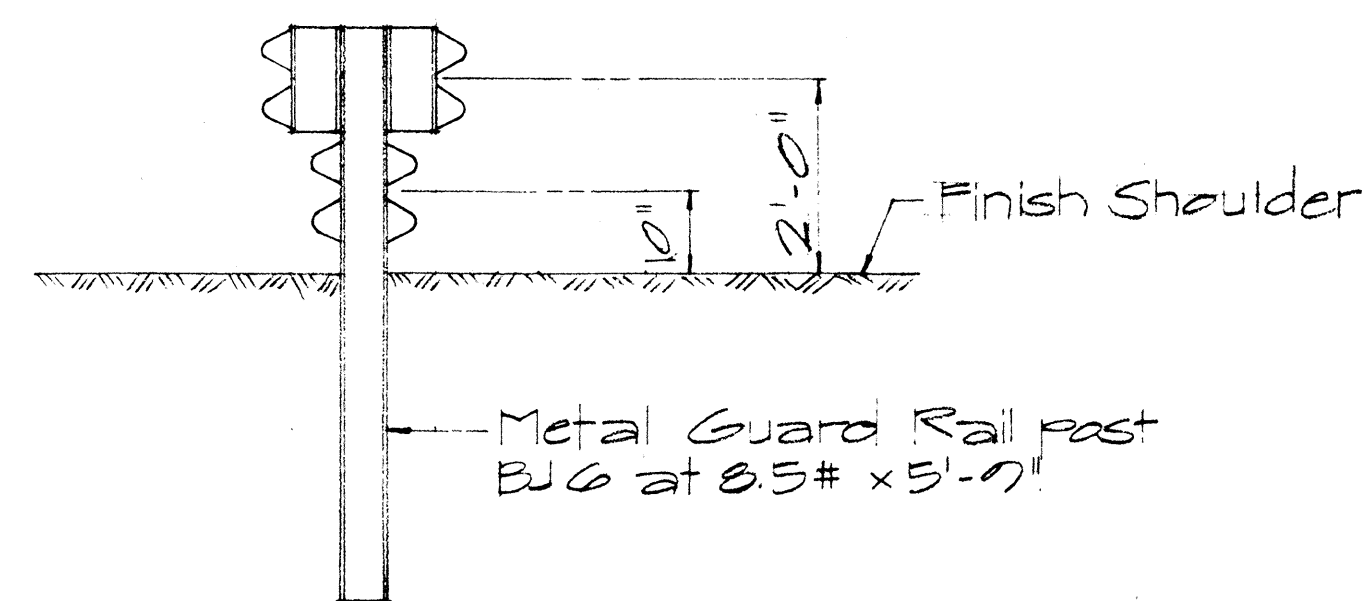
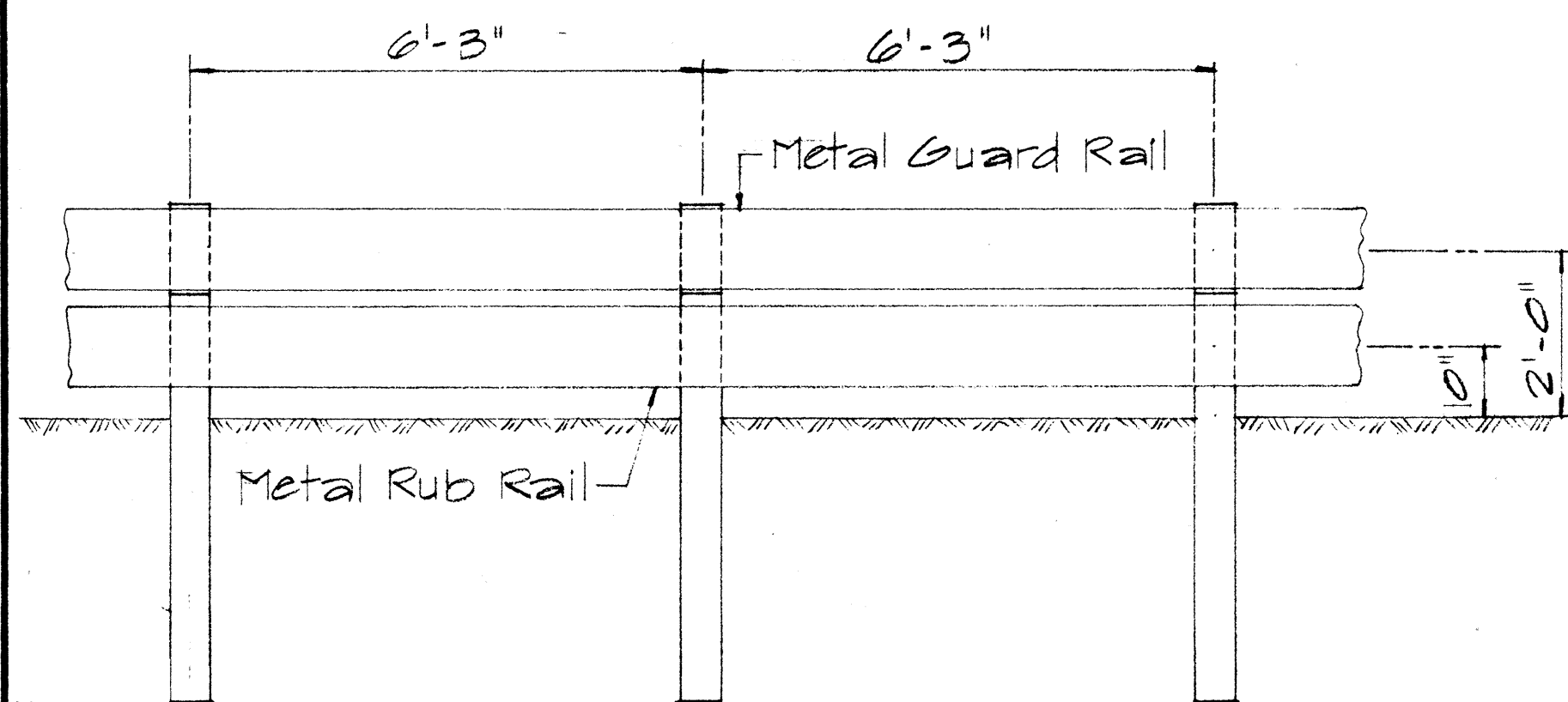
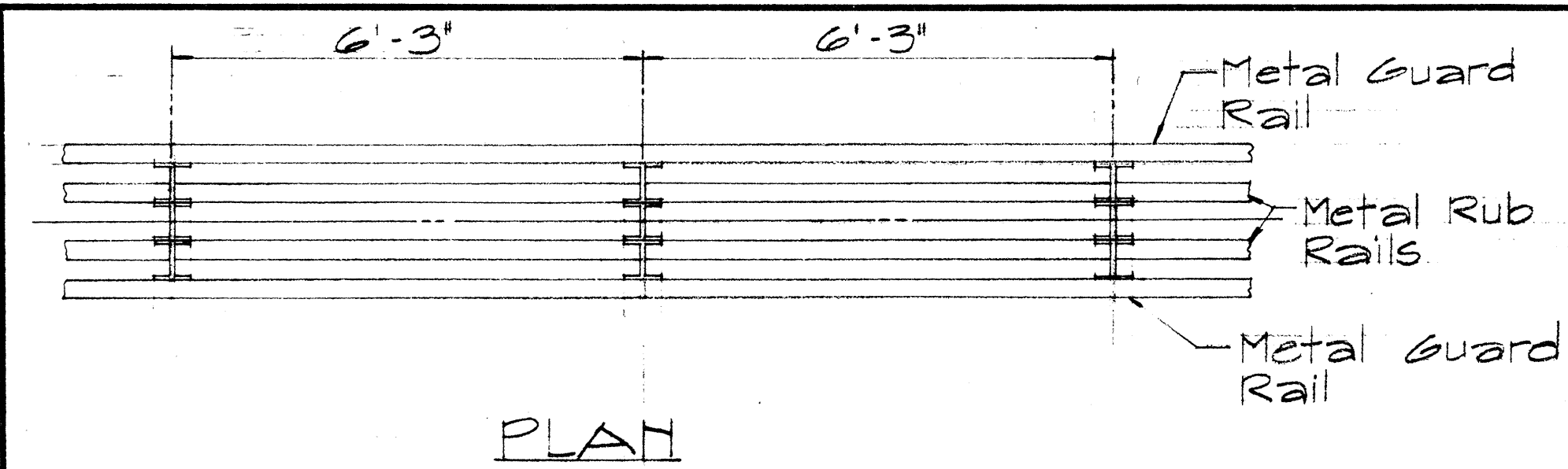
**STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION**

STANDARD DETAIL
METAL GUARD RAIL
CONNECTION TO CONC.
BARRIER

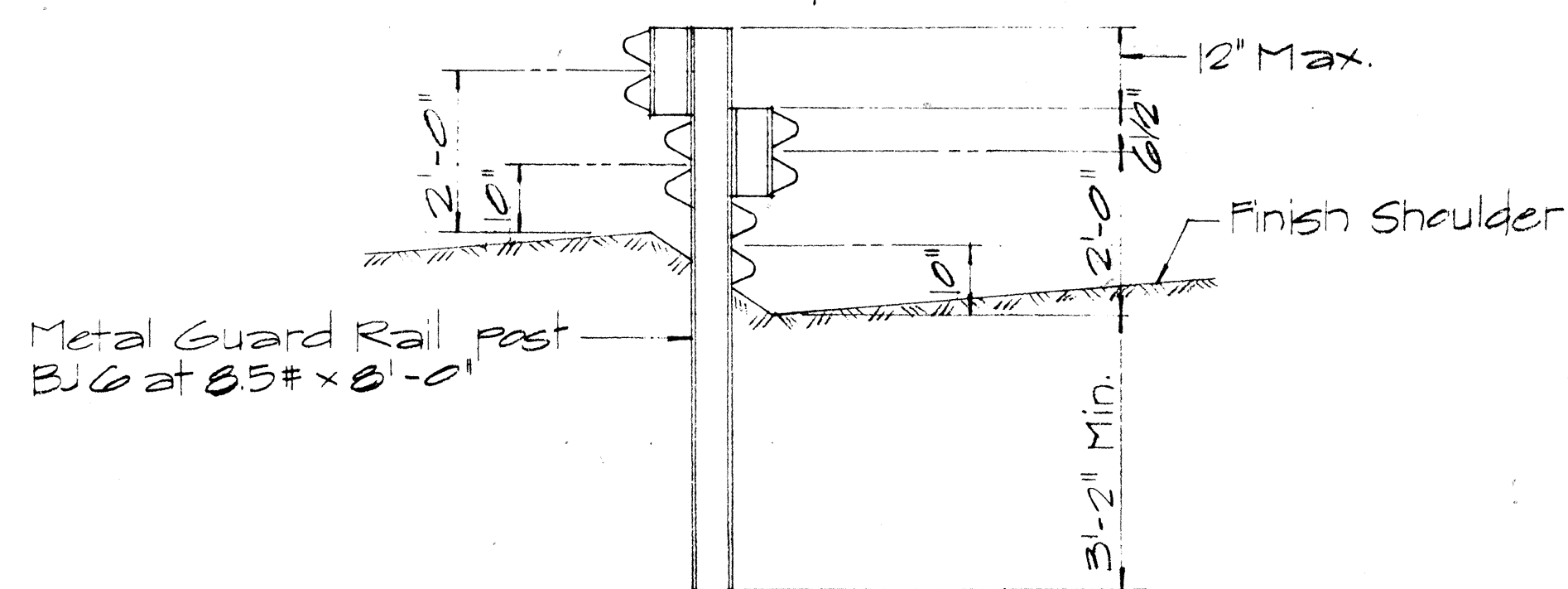
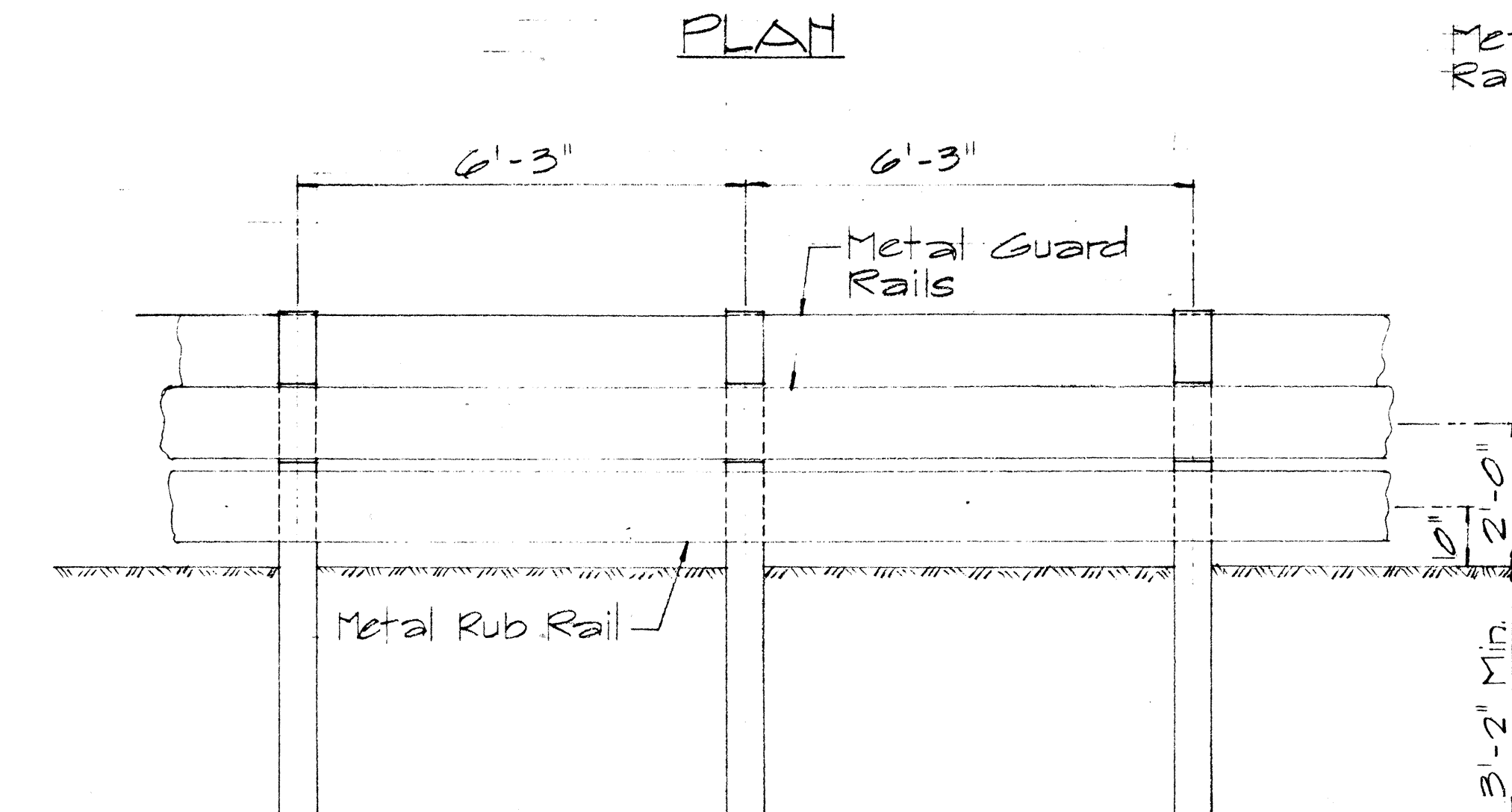
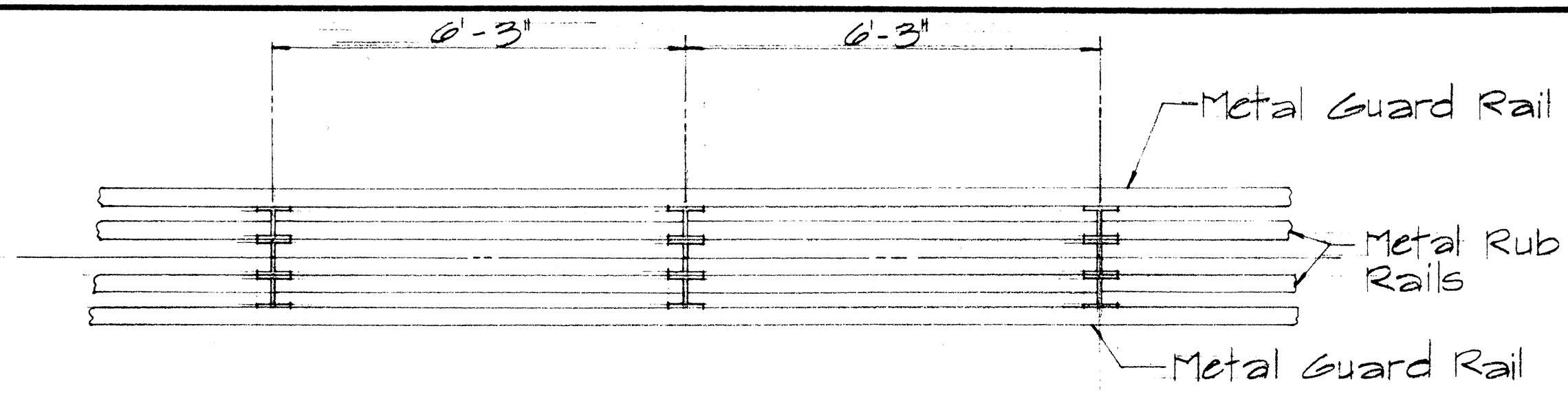
Scale As Noted Feb. 1969
SHEET No. 4 OF 9 SHEETS DT 513

G S

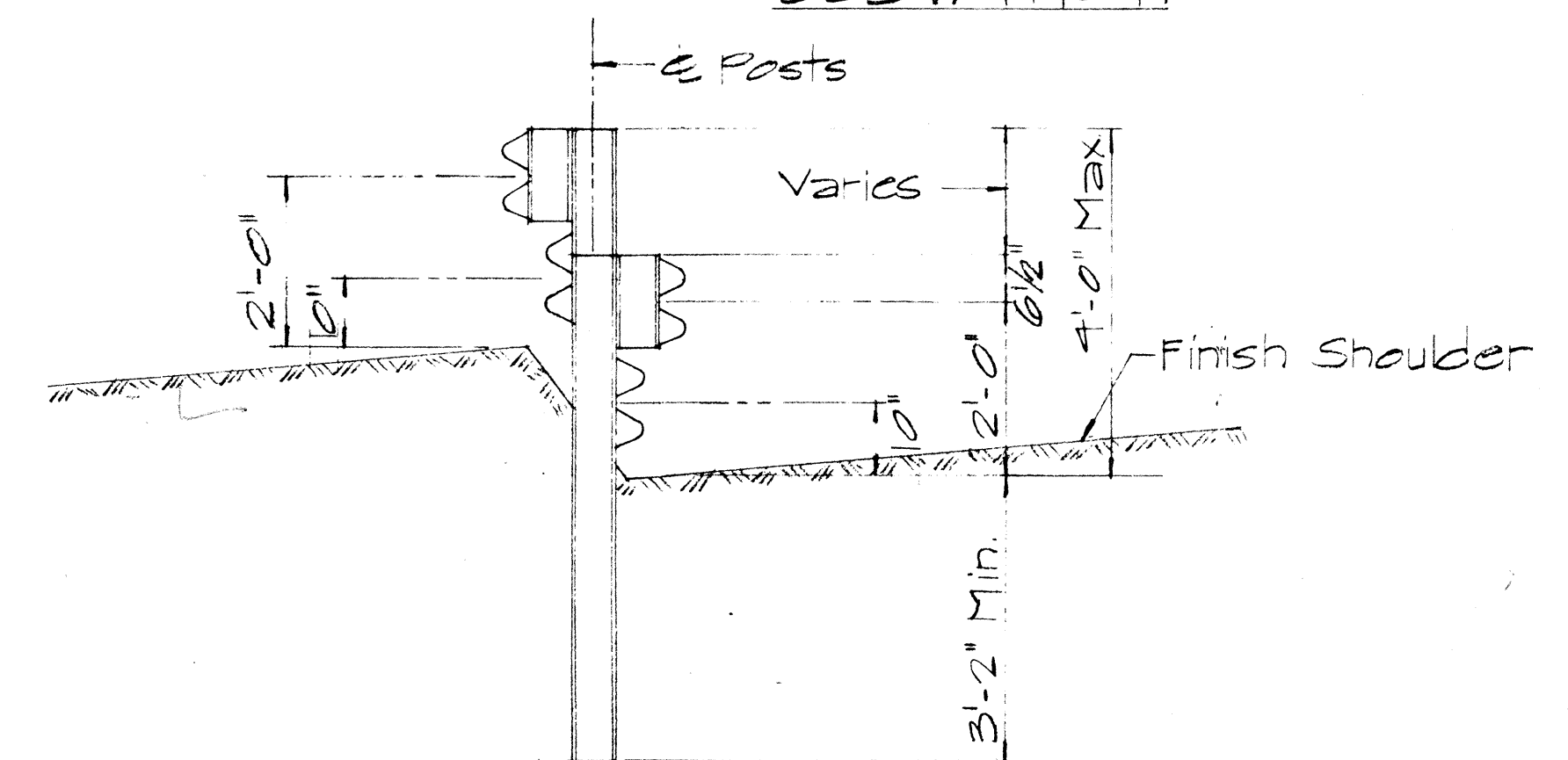
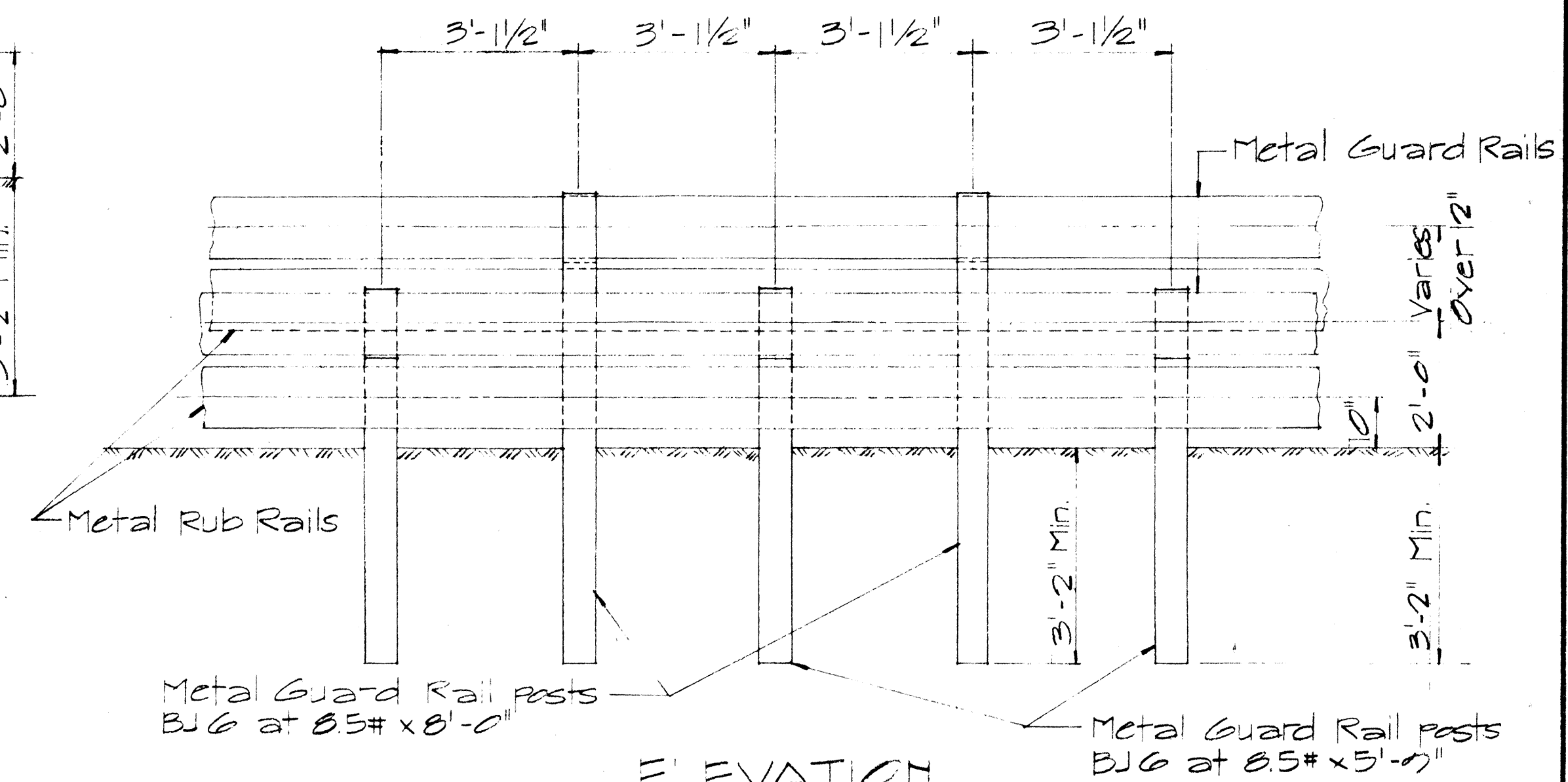
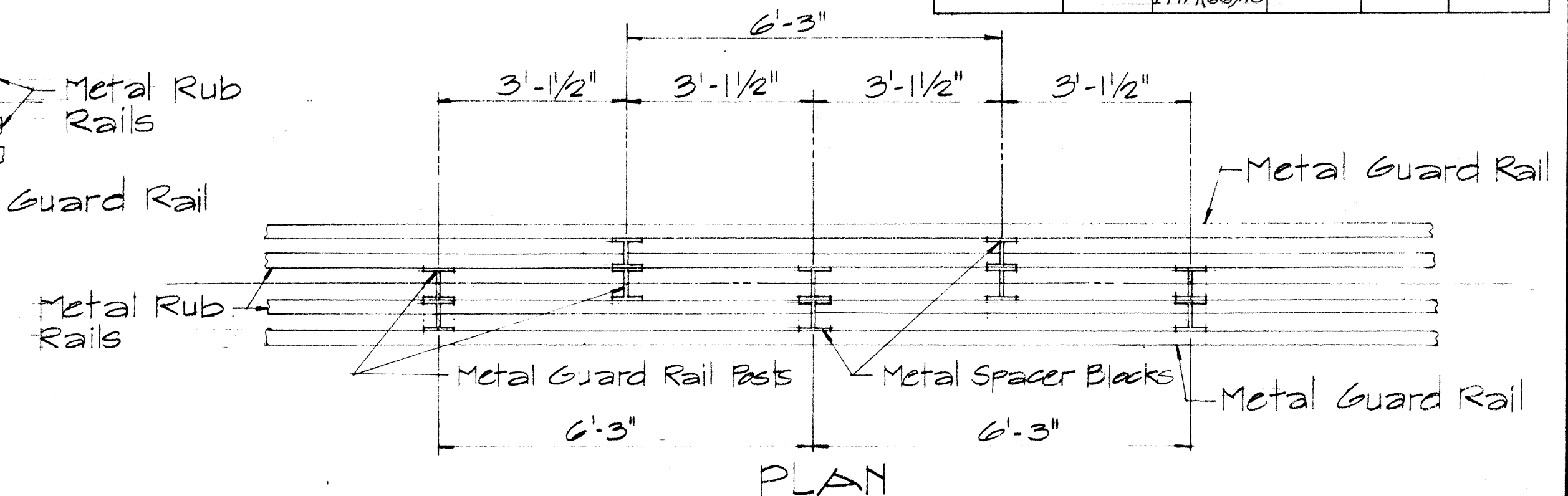
FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-41-1(67)10 I-41-1(68)10	1970	65	97



TYP. DOUBLE POST SEC.



TYPICAL SAW TOOTH INSTALLATION
Sc. 1/2" = 1'-0"



TYPICAL STAGGERED INSTALLATION
Sc. 1/2" = 1'-0"

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

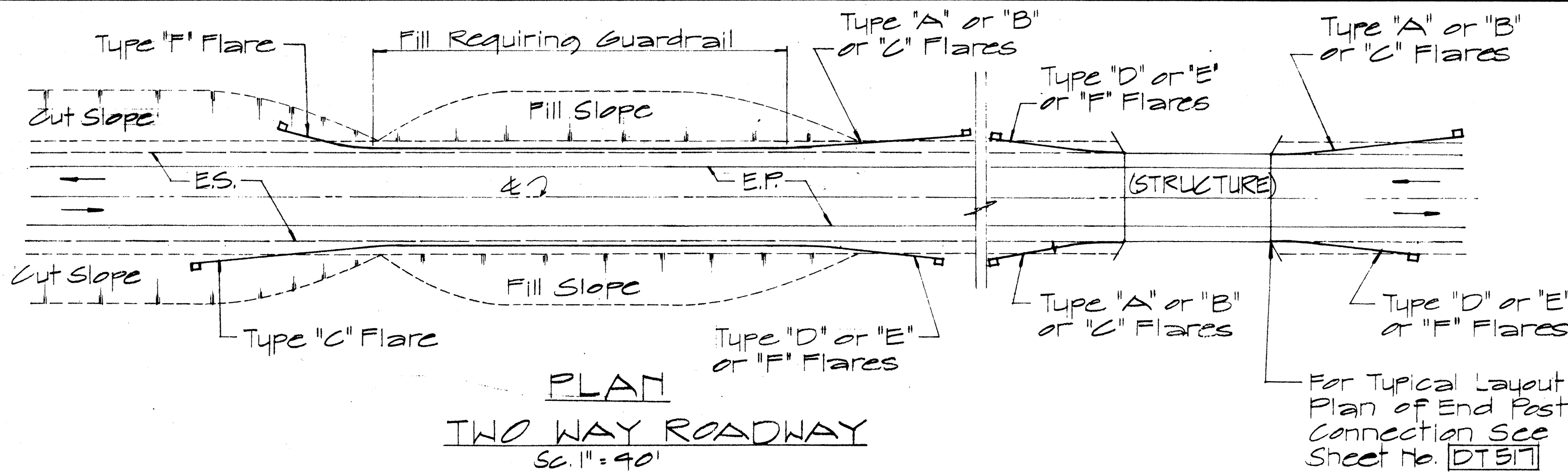
STANDARD DETAIL
METAL GUARD RAIL
WITH RUB RAIL

Scale: 1/2" = 1'-0" Feb. 14, 1969

SHEET No. 5 OF 9 SHEETS DT 514

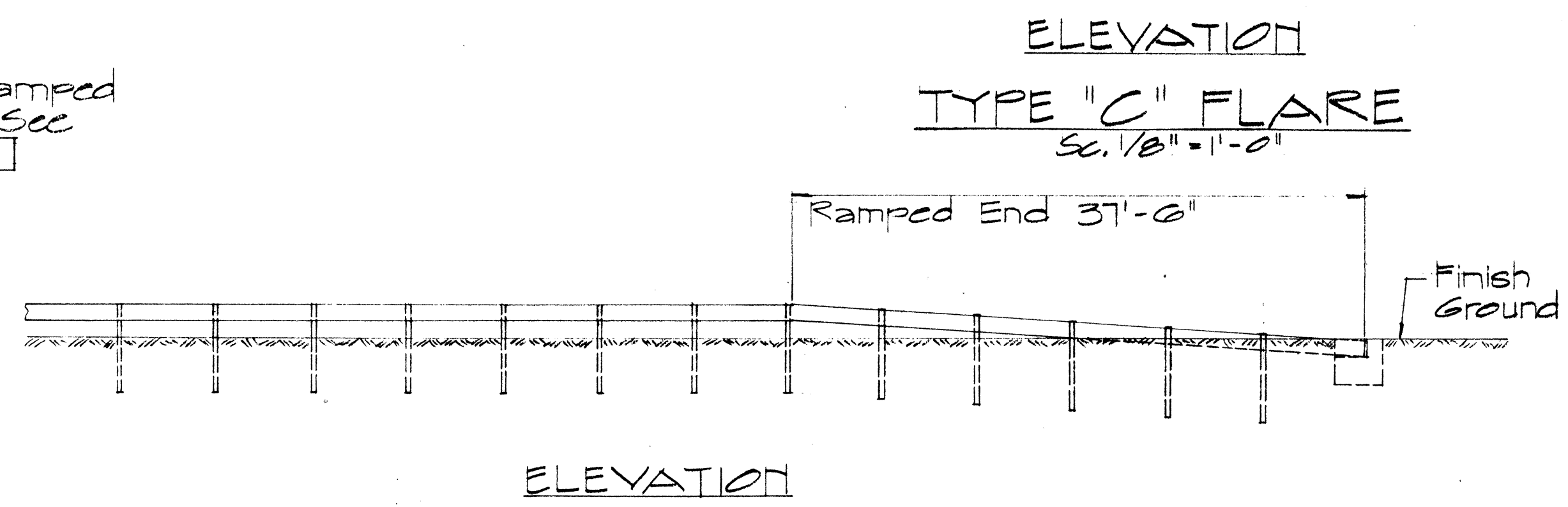
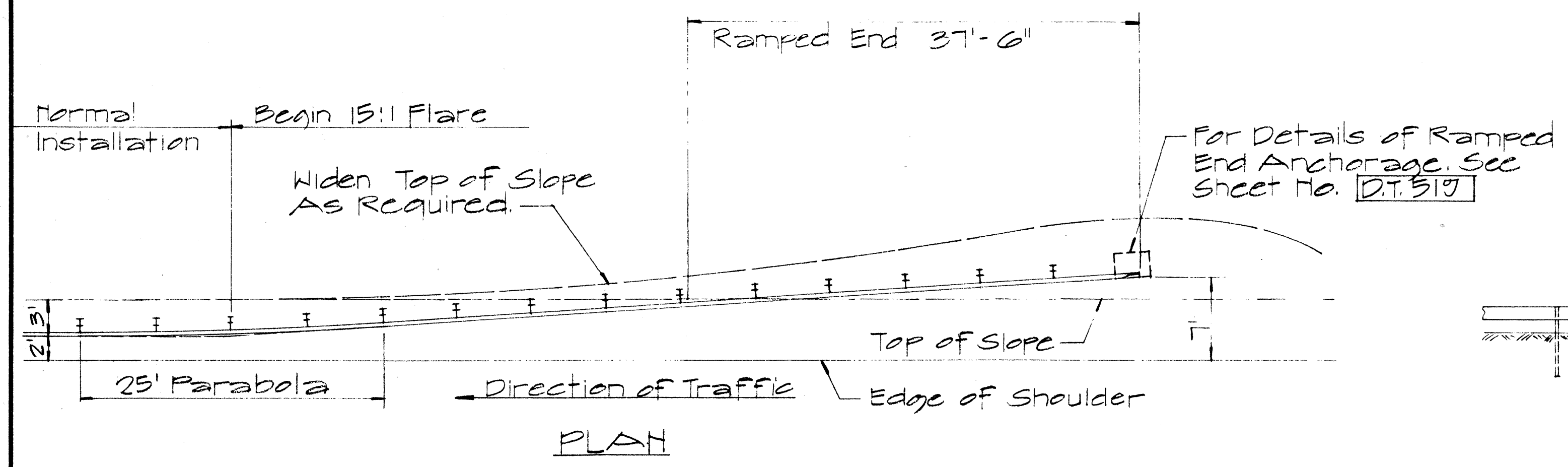
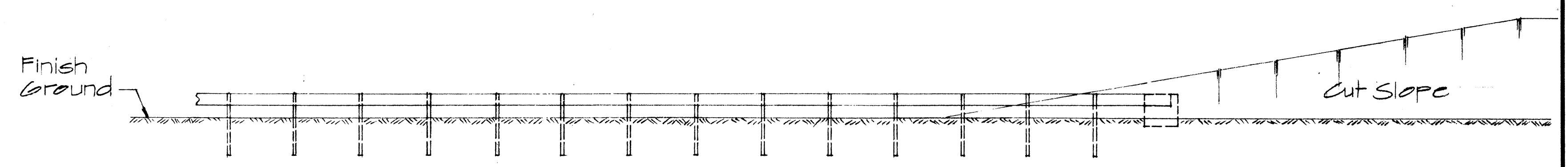
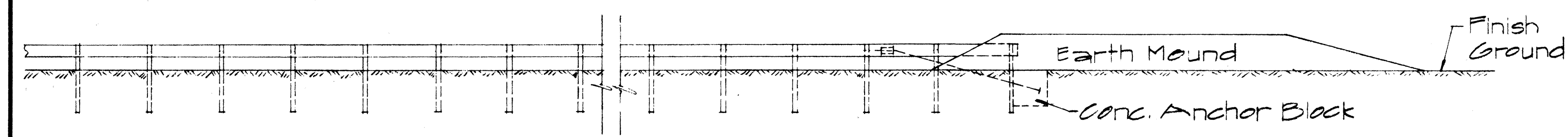
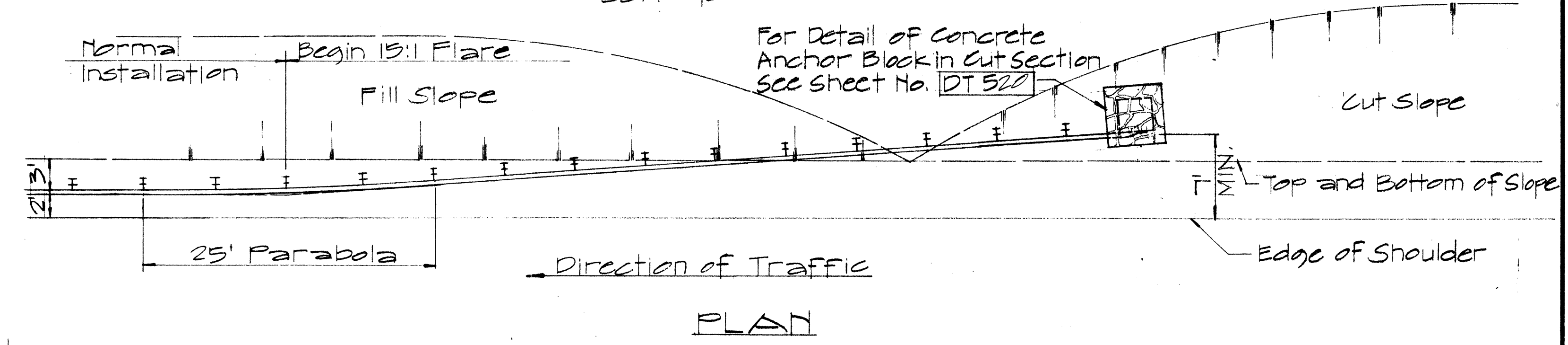
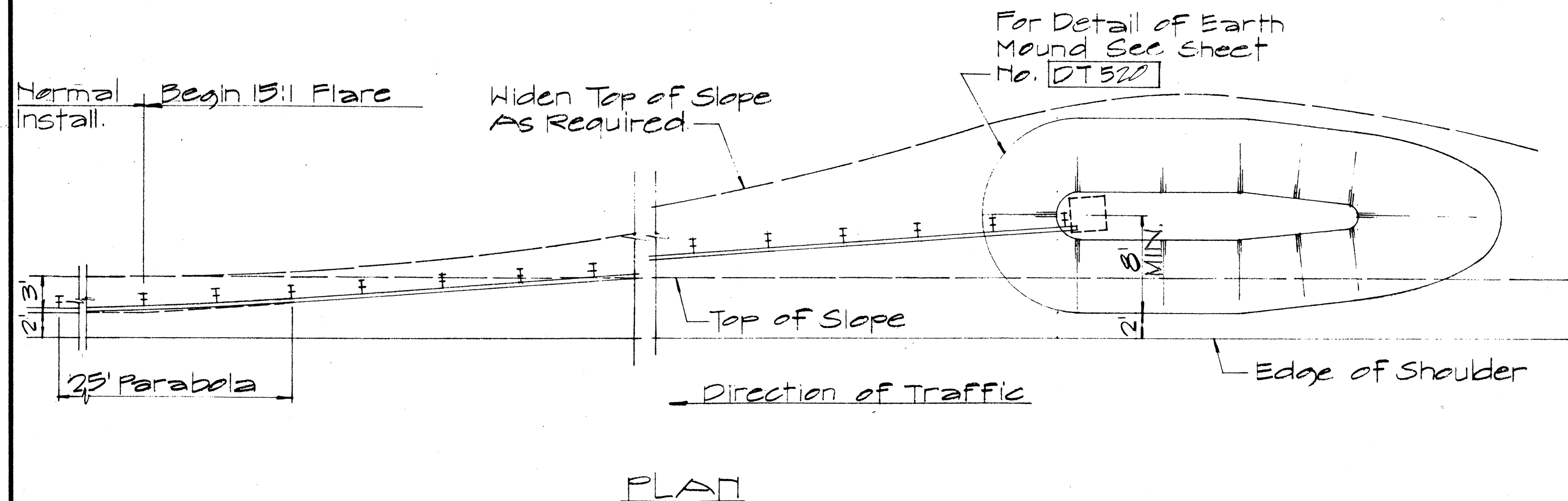
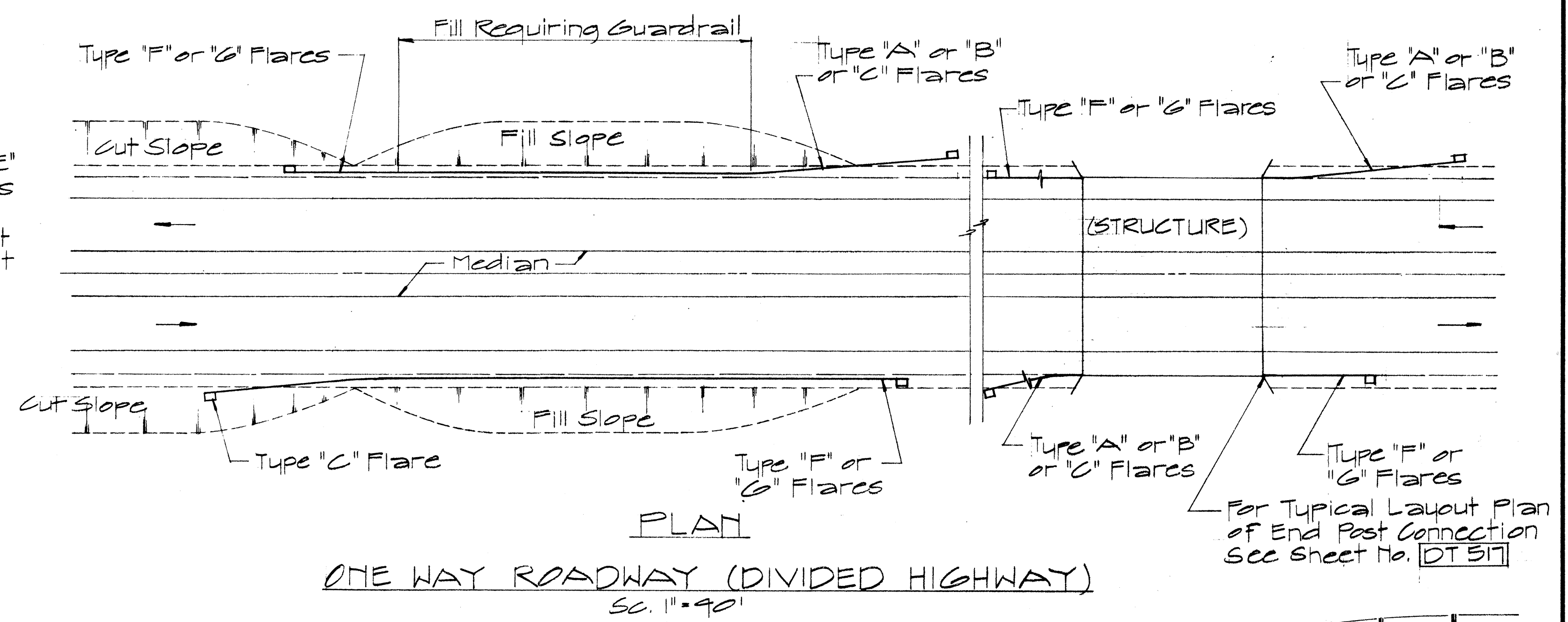
(5 9)

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



NOTE:
Metal guard rail connection to structures requires End Post Connection. See structure plans.

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	HI-1(66)10 HI-1(67)10	1970	71	97



TYPE "B" FLARE
Sc. 1/8" = 1'-0"

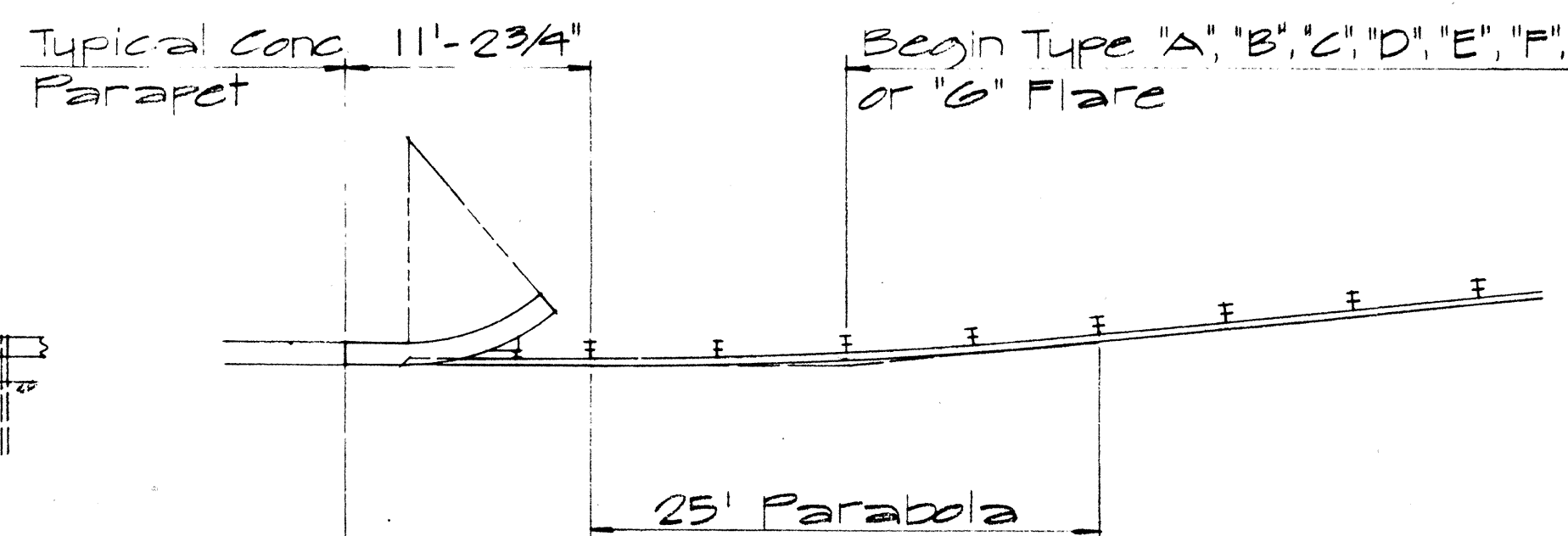
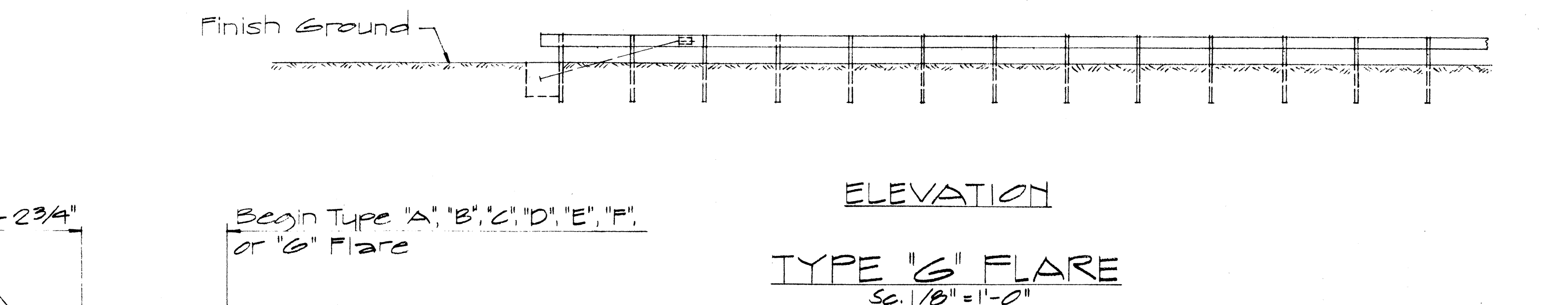
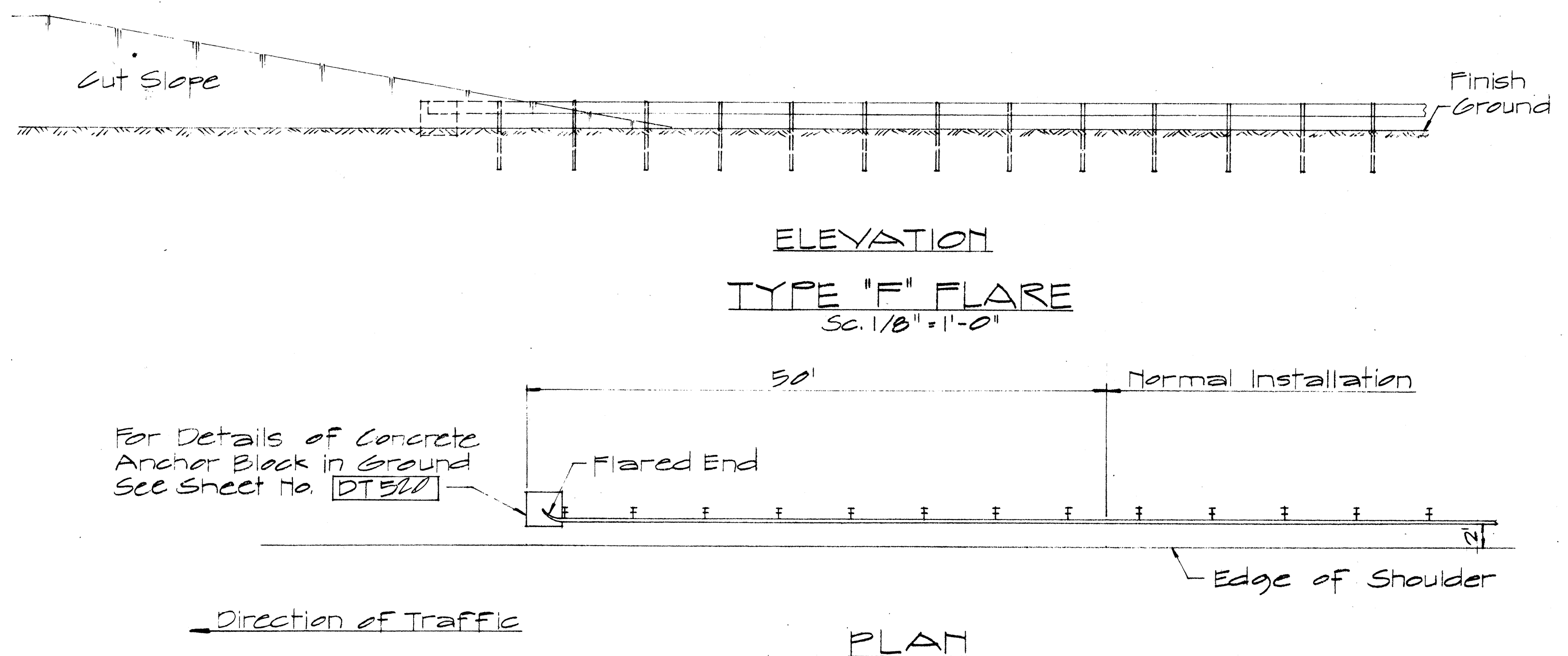
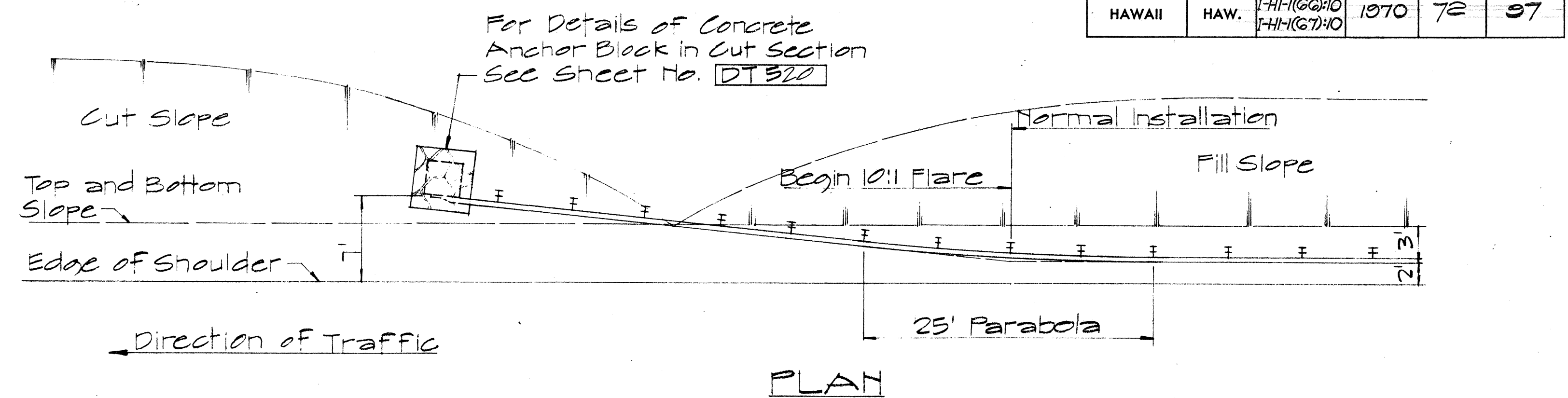
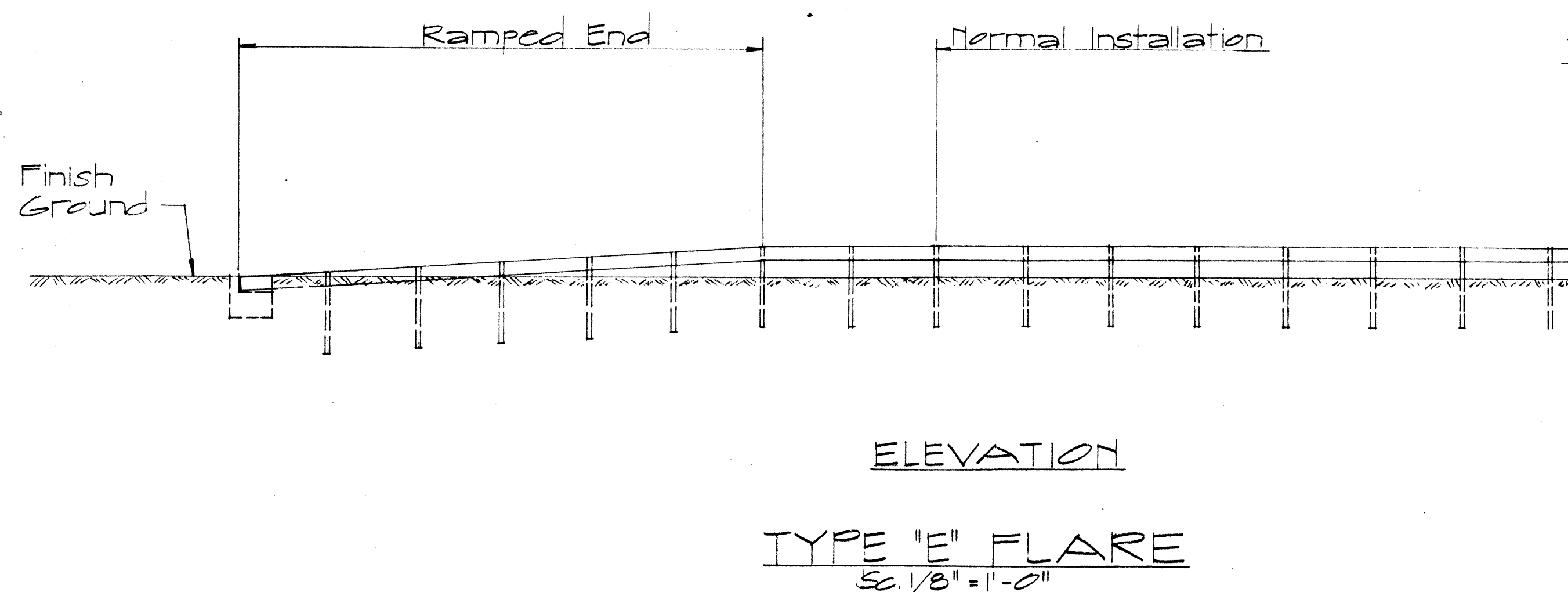
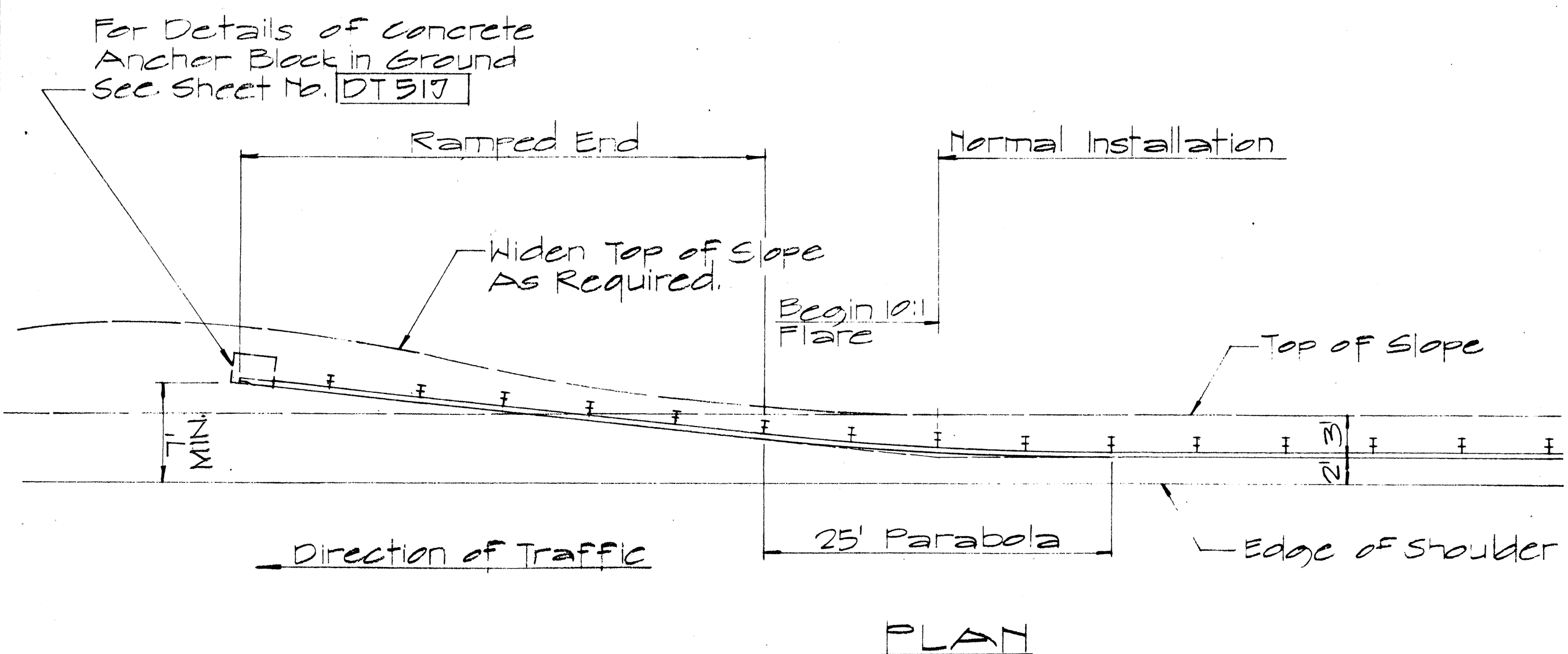
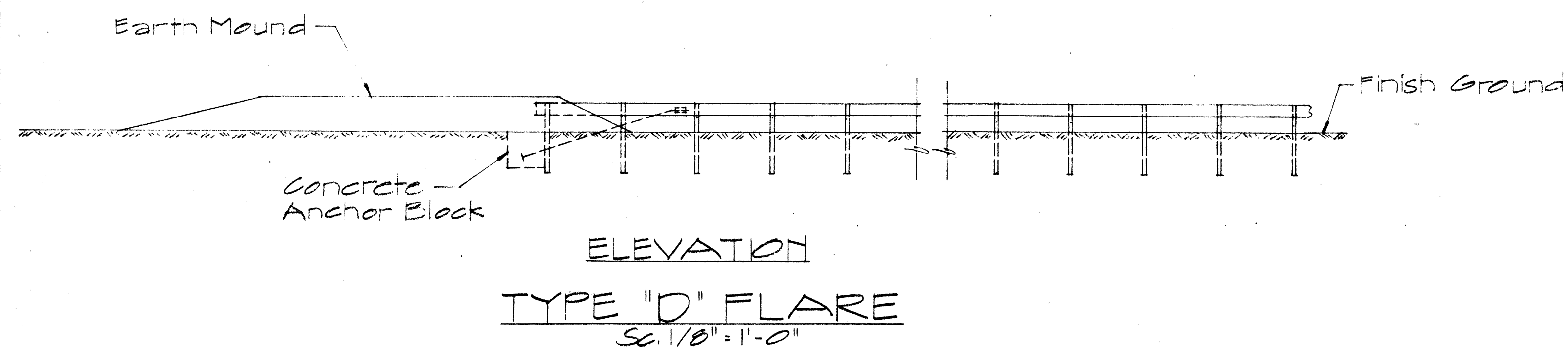
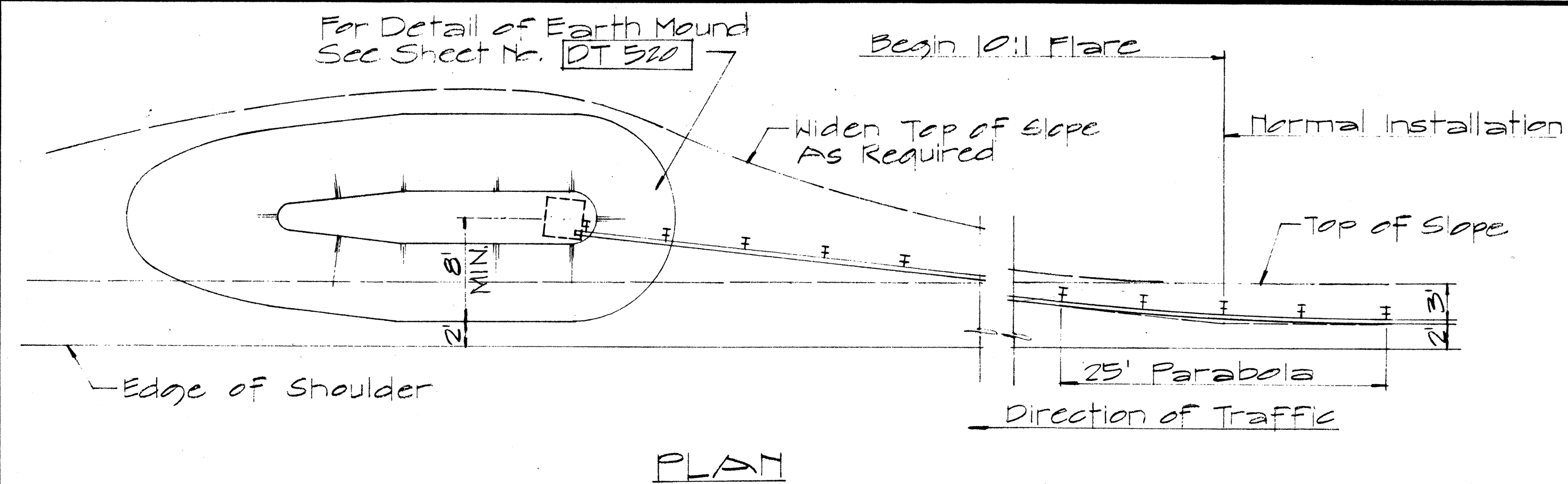
STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

**STANDARD DETAILS
OF APPROACH END
FLARE - ONE & TWO
WAY ROADWAY**

Sc. As Noted April 1967
SHEET No. 7 OF 9 SHEETS DT 516

DATE	
DESIGNED BY	
DRAWN 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-H11(66)10 1-H11(67)10	1970	72	97



STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

STANDARD DETAILS
OF TRAILING END
FLARE - ONE & TWO
WAY ROADWAY

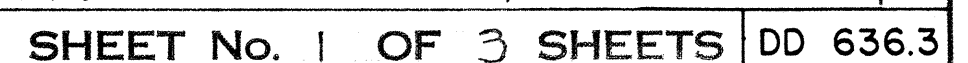
Sc. As Noted

APRIL 1967

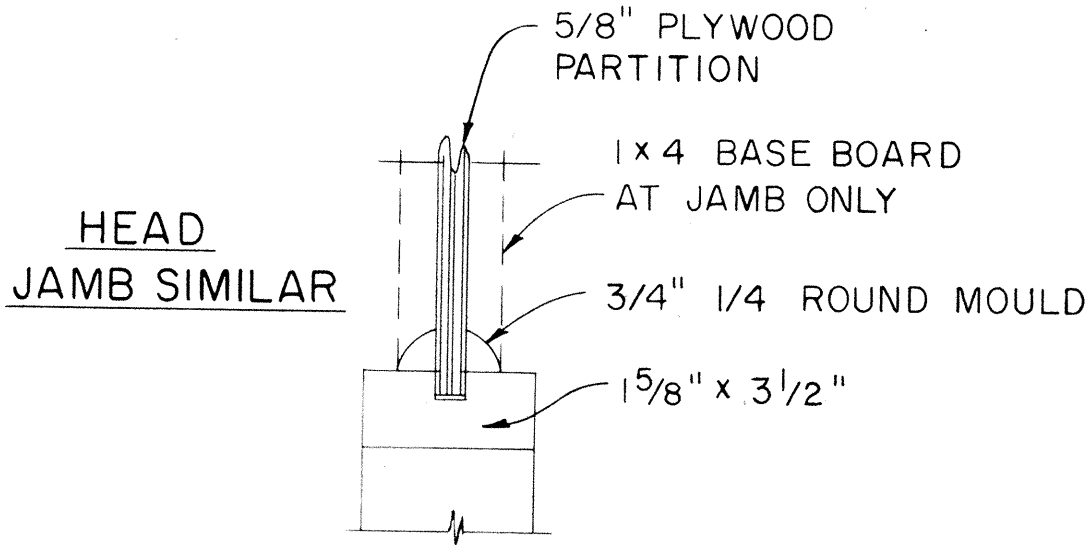
SHEET No. 8 OF 9 SHEETS DT 517

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

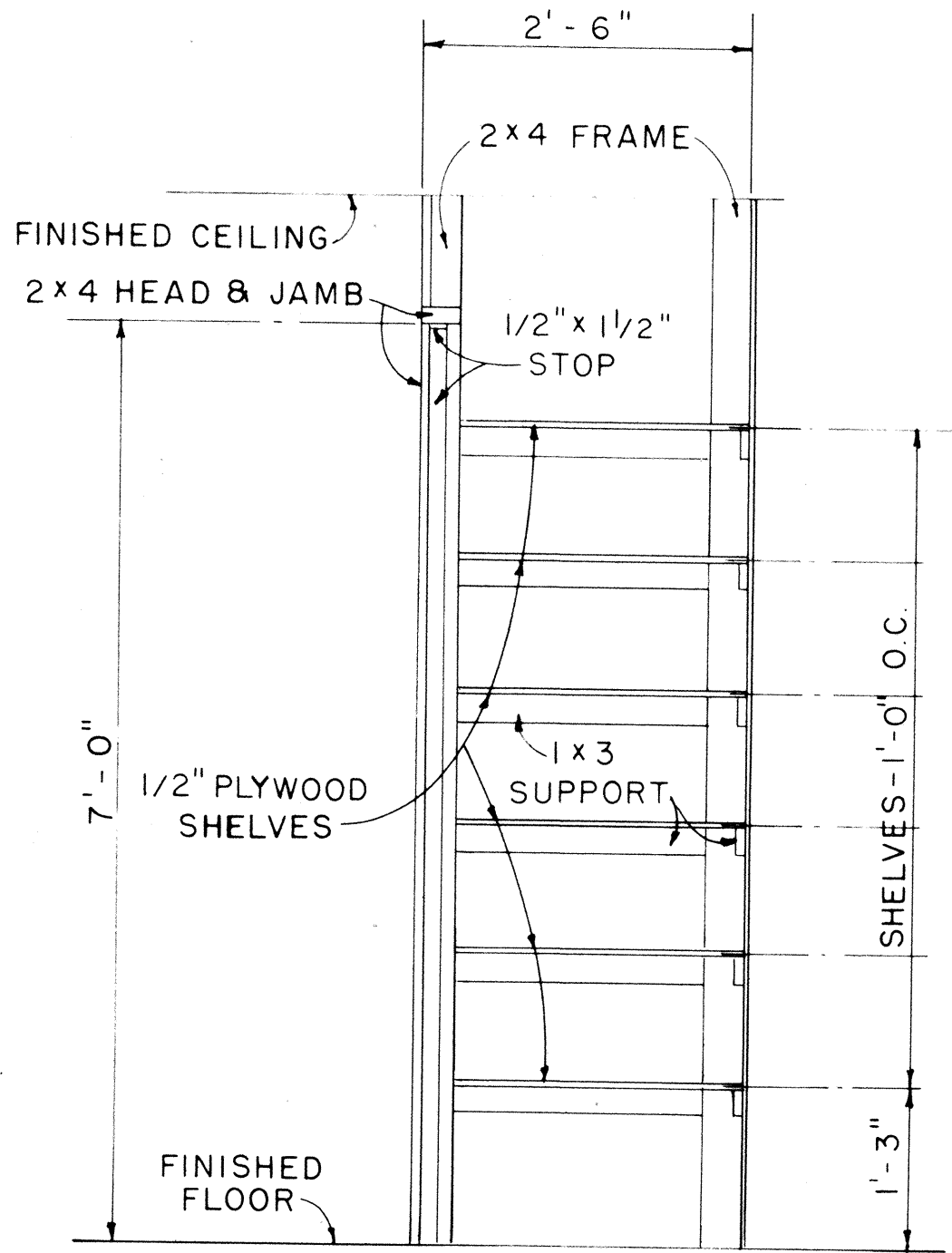
ORIGINAL	SURVEY PLOTTED BY	DATE
PLAN	DRAWN BY	
	TRACED BY	
NOTE BOOK	DESIGNED BY	
	QUANTITIES BY	
	CHECKED BY	
No. _____		



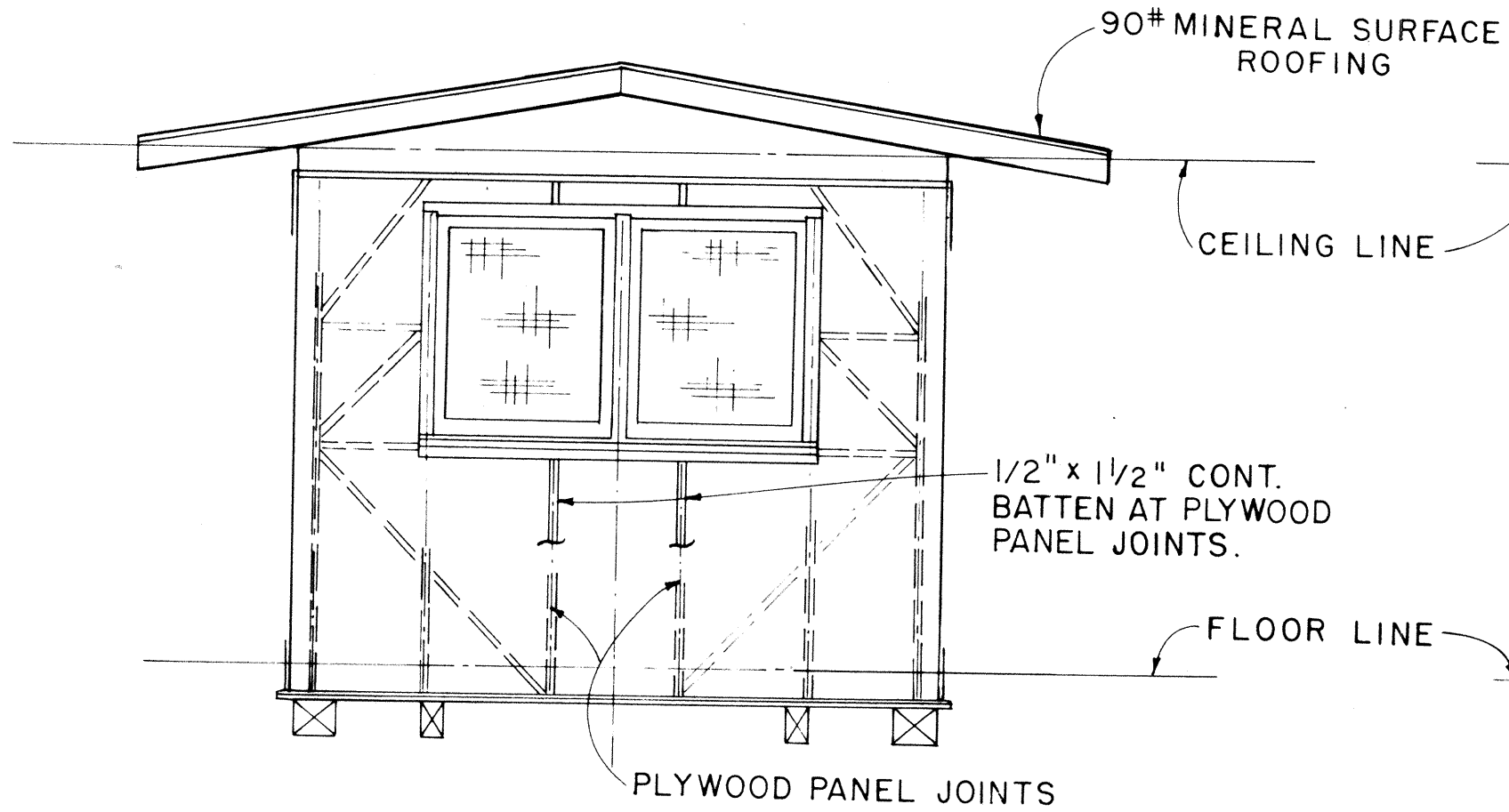
FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-H-1(6)10 I-H-1(7)10	1970	77	97



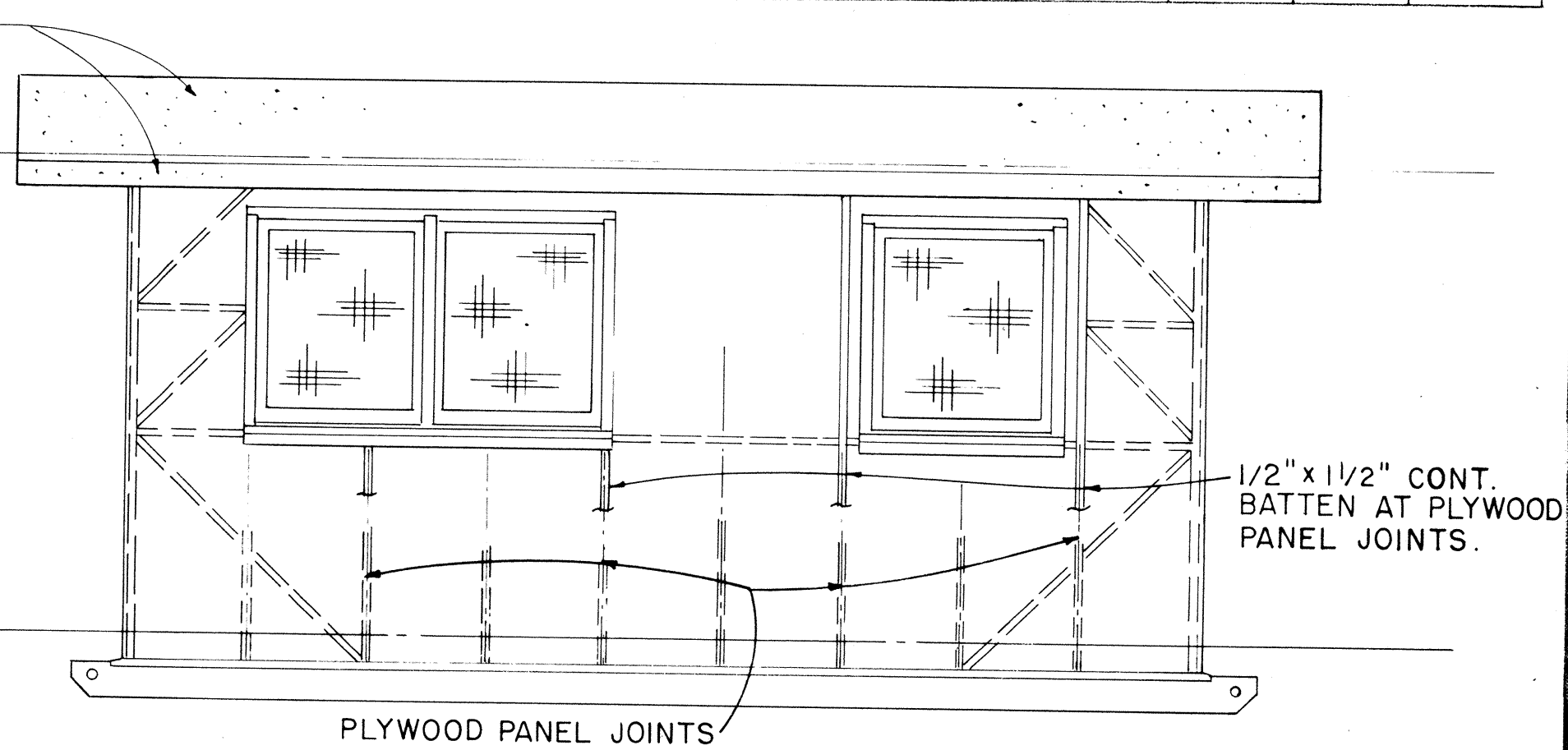
CASEMENT DETAIL
SCALE: 3" = 1'-0"



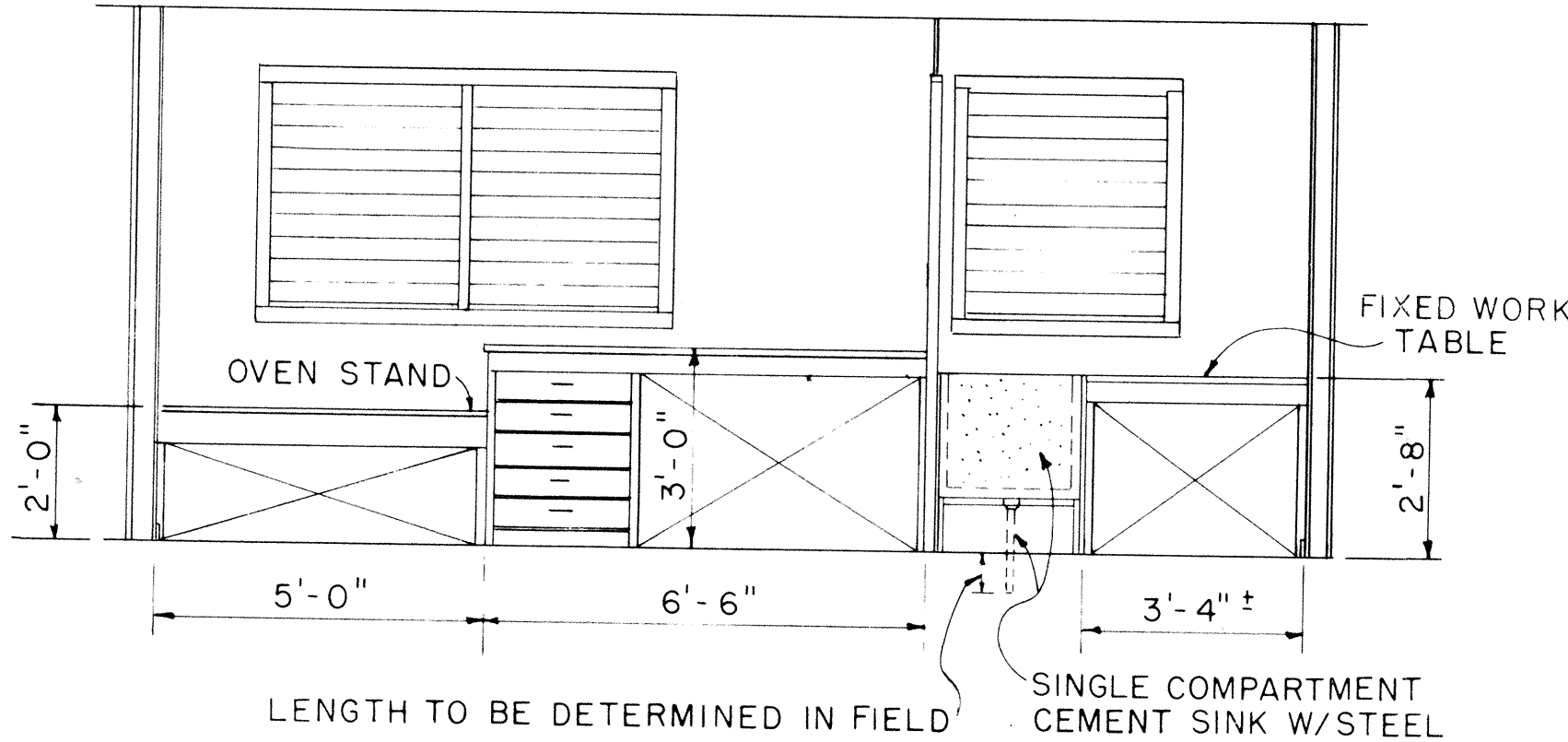
CABINET DETAIL
SCALE: 3/4" = 1'-0"



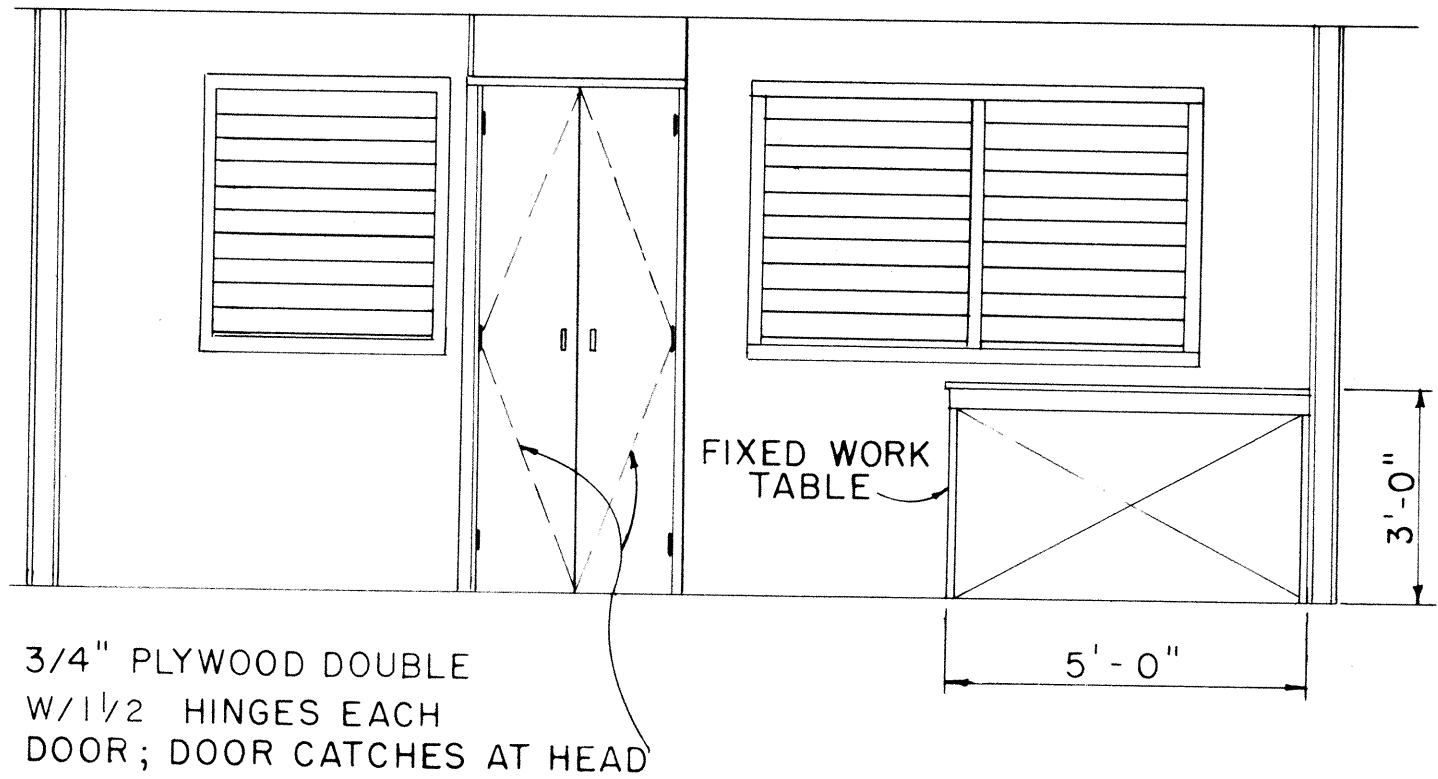
ELEVATION D
SCALE: 3/8" = 1'-0"



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



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



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

APPROVAL RECOMMENDED:

HIGHWAY DESIGN ENGINEER 12-4-69
DATE

APPROVED:

ASSISTANT CHIEF, ENGINEERING DATE

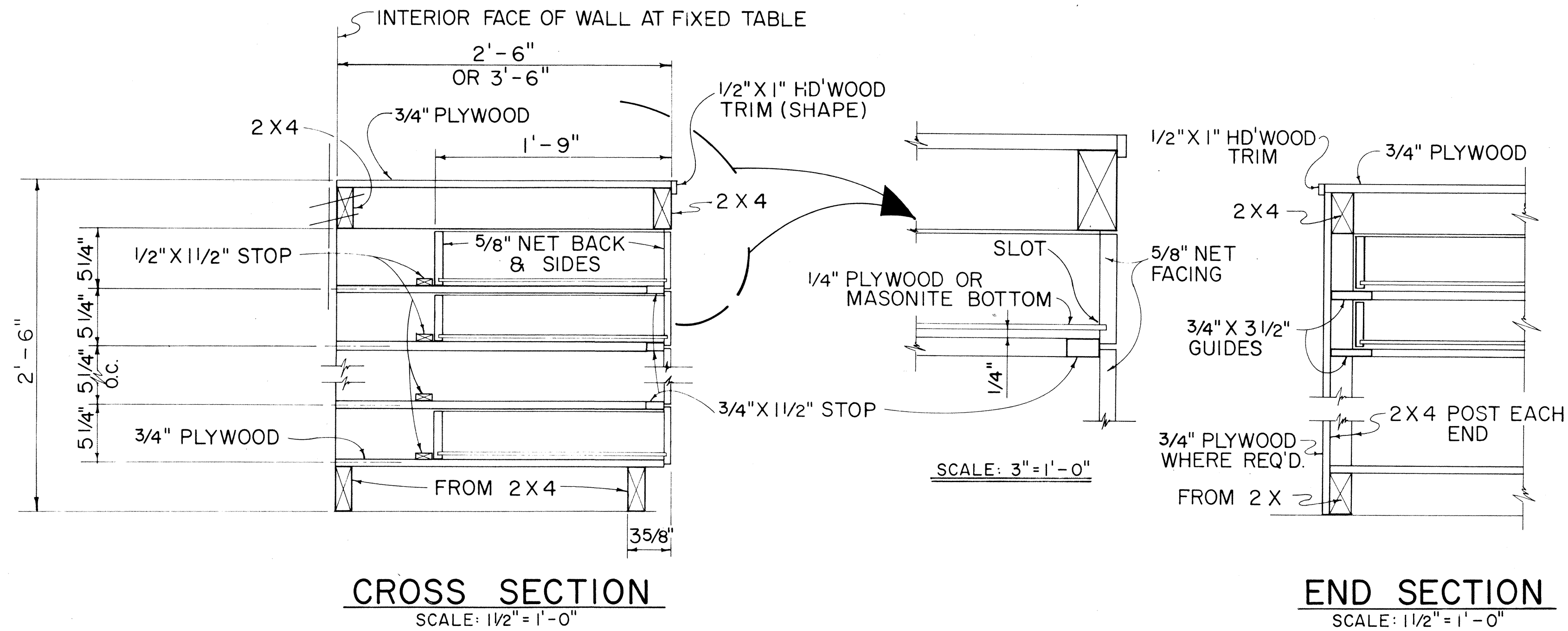
NO.	REVISION	APPROVED BY	DATE

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

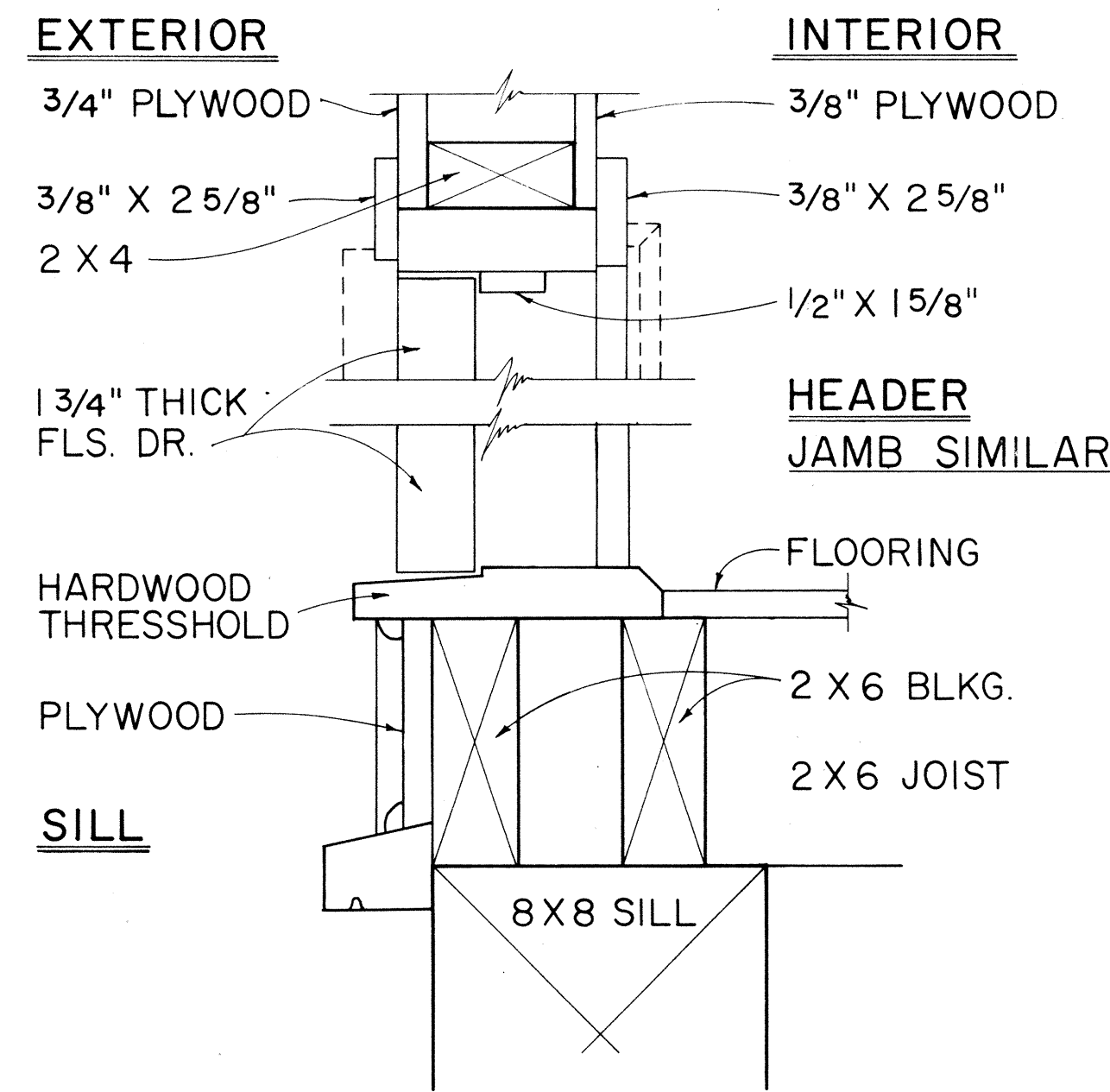
PROJECT SITE LABORATORY

Scale: As Noted

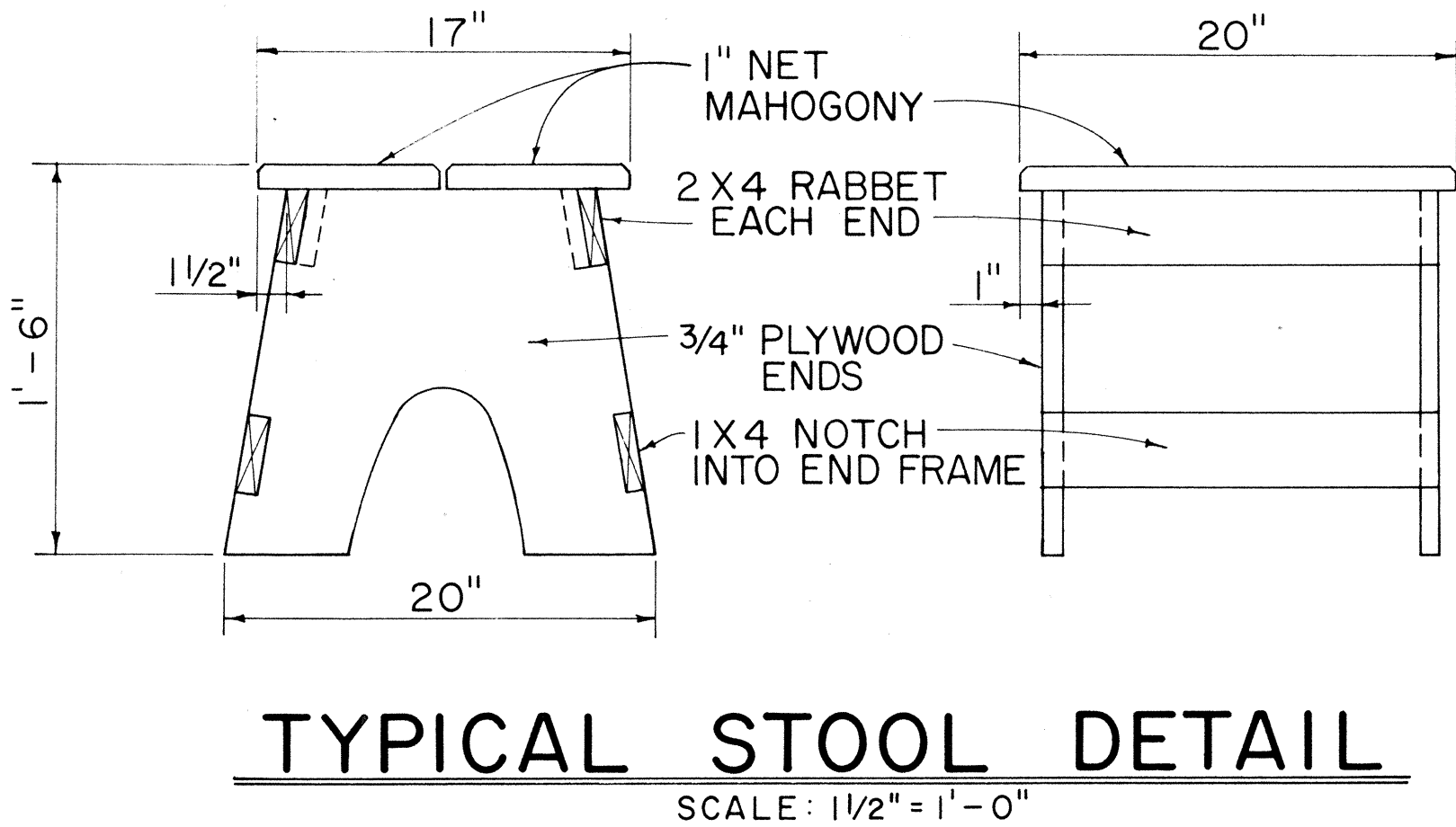
FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAWAII	1-11-166-10 1-11-167-10	1970	78	97



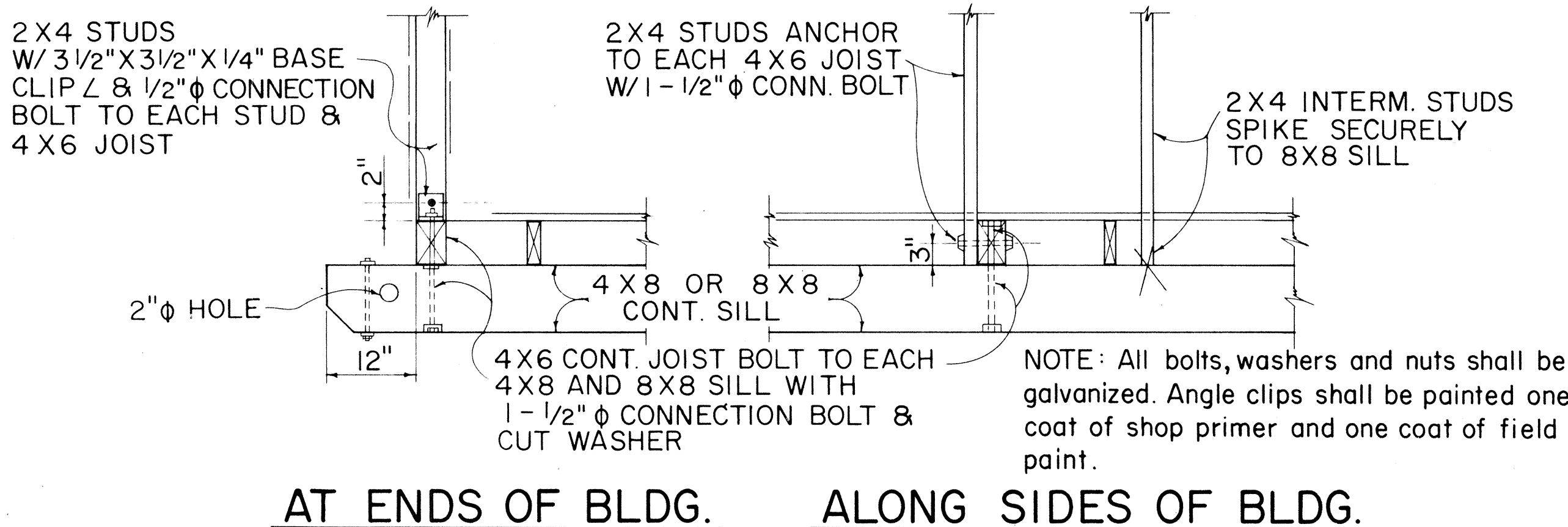
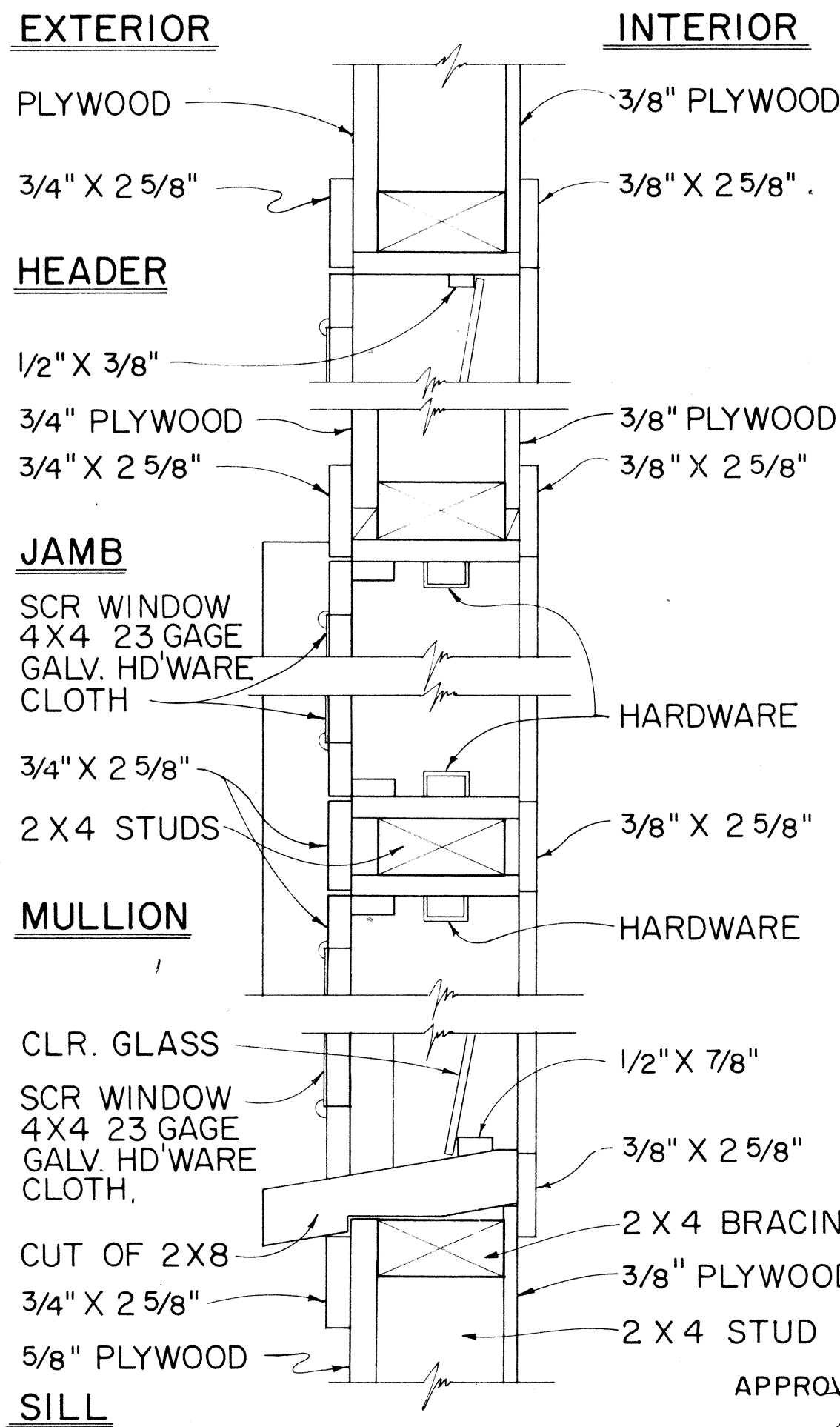
TYPICAL WORK TABLE DRAWER DETAIL



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.



NO.	REVISION	APPROVED BY	DATE

STATE OF HAWAII DEPARTMENT OF TRANSPORTATION HIGHWAYS DIVISION
FIELD OFFICE & PROJECT SITE LABORATORY
Scale: As Noted