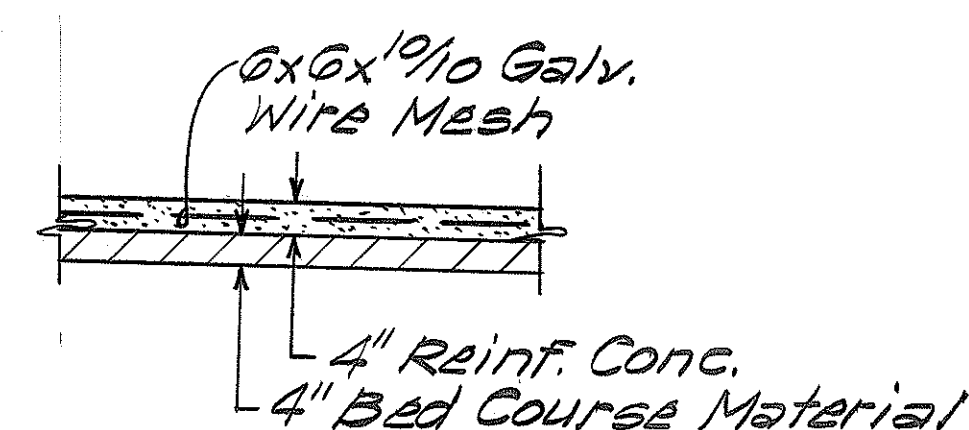


FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEET
HAWAII	HAW.	IR-41-1(160)	1982	5	39

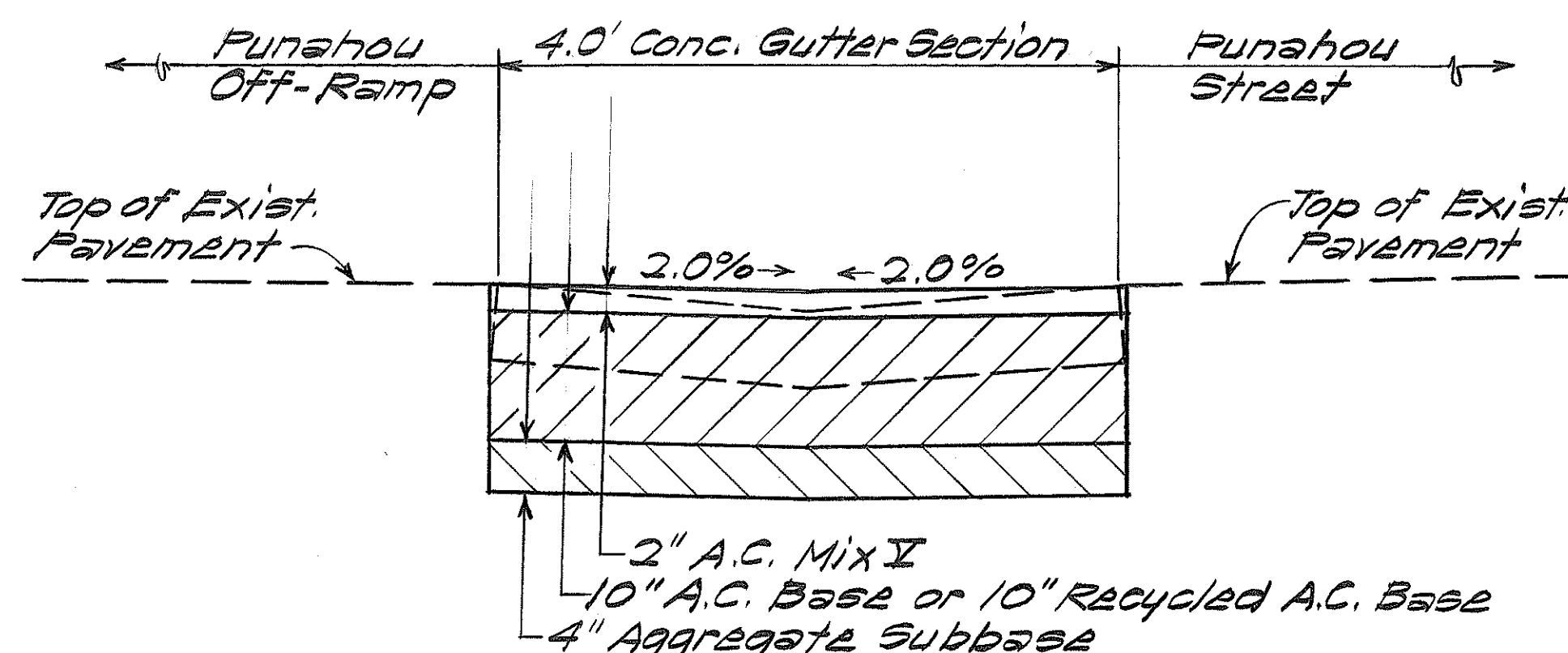


NOTE:

All Concrete Sidewalks shall be reinforced with Bed Course Material except in Island which shall be Plain Concrete Sidewalk without Bed Course Material.

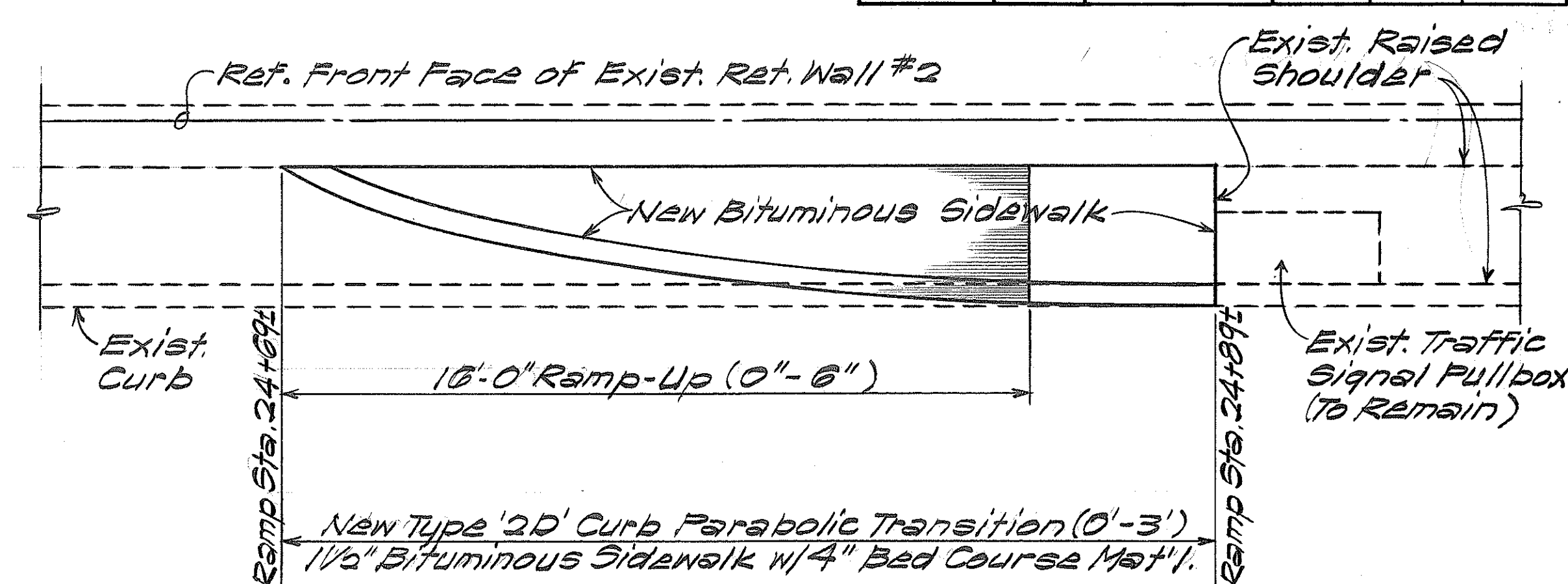
TYPICAL SECTION
REINF. CONC. SIDEWALK

Scale: $\frac{1}{3}'' = 1'-0''$



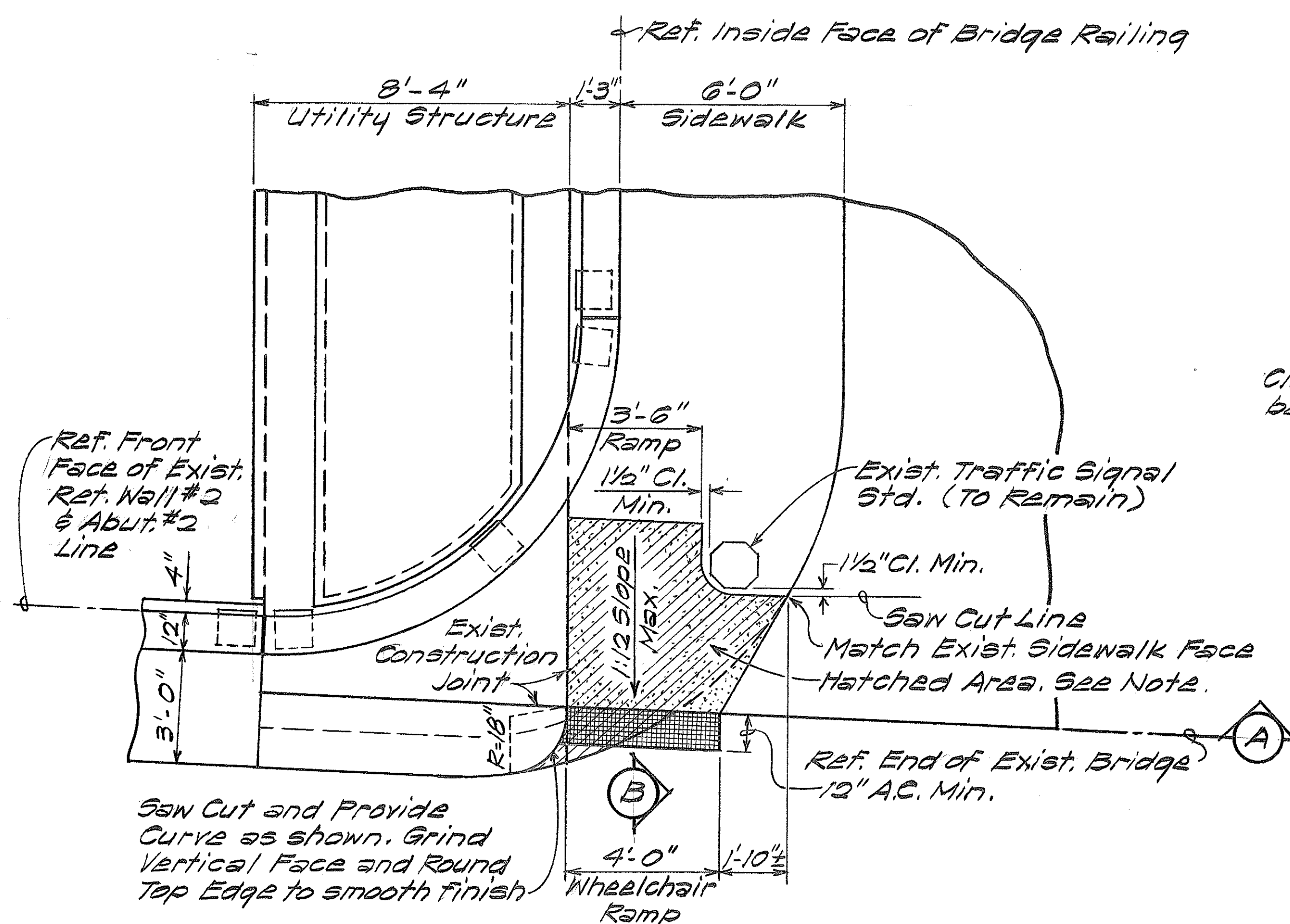
TYPICAL SECTION
REMOVAL OF 4' CONC. GUTTER SECT.

Punahou St. Sta. 14+94± Lt. to Punahou St. Sta. 15+50± Lt.
Scale: 1"=1'-0"



RAMP-UP DETAIL

RAMP STA. 24+69± LT. TO RAMP STA. 24+89± LT.
SLOPE: 3/8" = 1'-0"



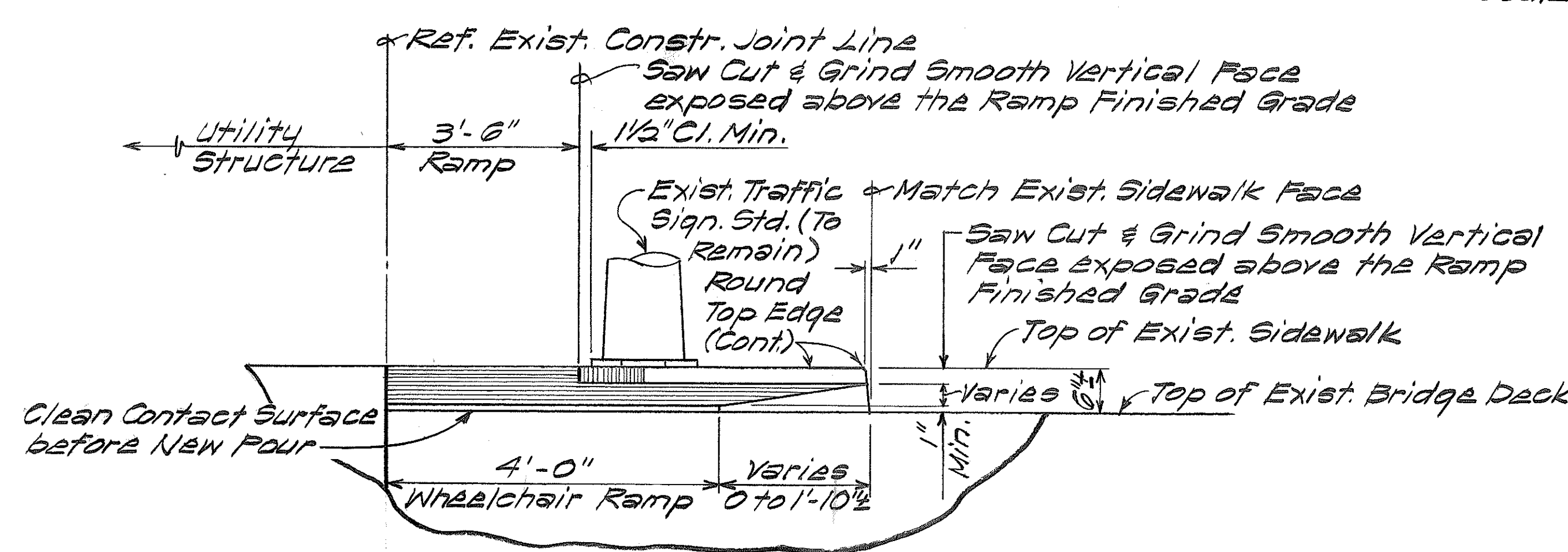
PLAN

Scale: $3/8" = 1'-0"$

Saw Cut and Provide Curve as shown. Grind Vertical Face and Round Top Edge to smooth finish

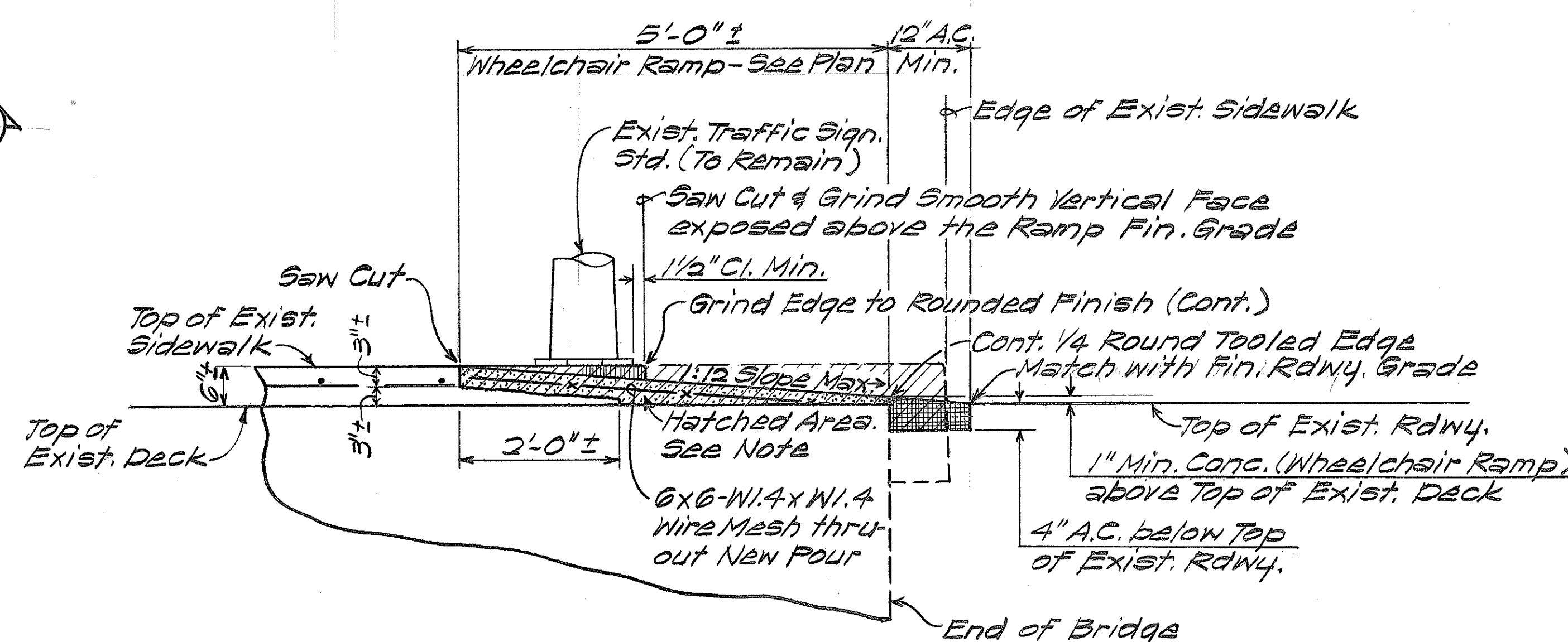
NOTE

Limits of Removal of Existing Concrete Sidewalk and Reinforcing Bars shown by Hatched  Lines. Exposed Reinforcing Bars, appearing in Cross Section, above the Ramp Finished Grade shall be removed to a depth of 1" and resulting depression filled with Mortar. Provide Grooved Tactile Warning Signal on Type 'F' Wheelchair Ramp. For Detail See Plan Sht. No. 7.



SECTION A

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



SECTION B

Scale: $\frac{3}{4}" = 1'-0"$

TYPE 'F' WHEELCHAIR RAMP DETAIL

PUNAHOU ST. STA. 15+44 ± LT.

6/17/82	Revised Type 'F' Wheelchair Ramp Detail and added Ramp-Up Detail
DATE	REVISION

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
LAND TRANSPORTATION FACILITIES DIVISION
MISC. ROADWAY DETAILS

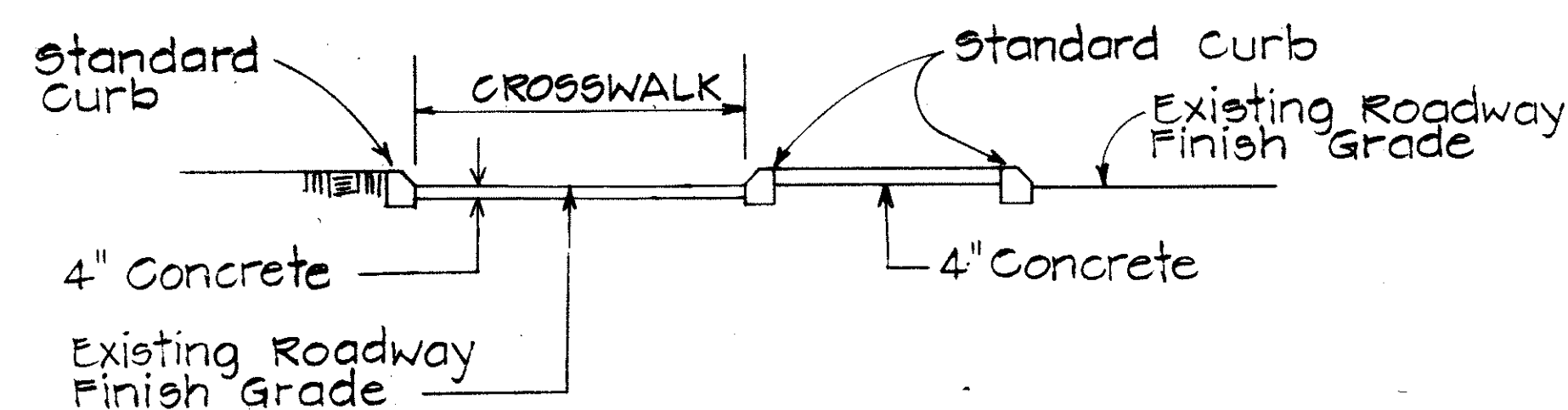
INTERSTATE ROUTE H-1
SAFETY IMPROVEMENTS AT
THE PUNAHOU STREET OFF-RAMP
F.A.I. Proj. No. IR-HI-1 (160)

Scale: As Shown Date: June, 1982
SHEET No. 1 OF 6 SHEETS

ADD. 5

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

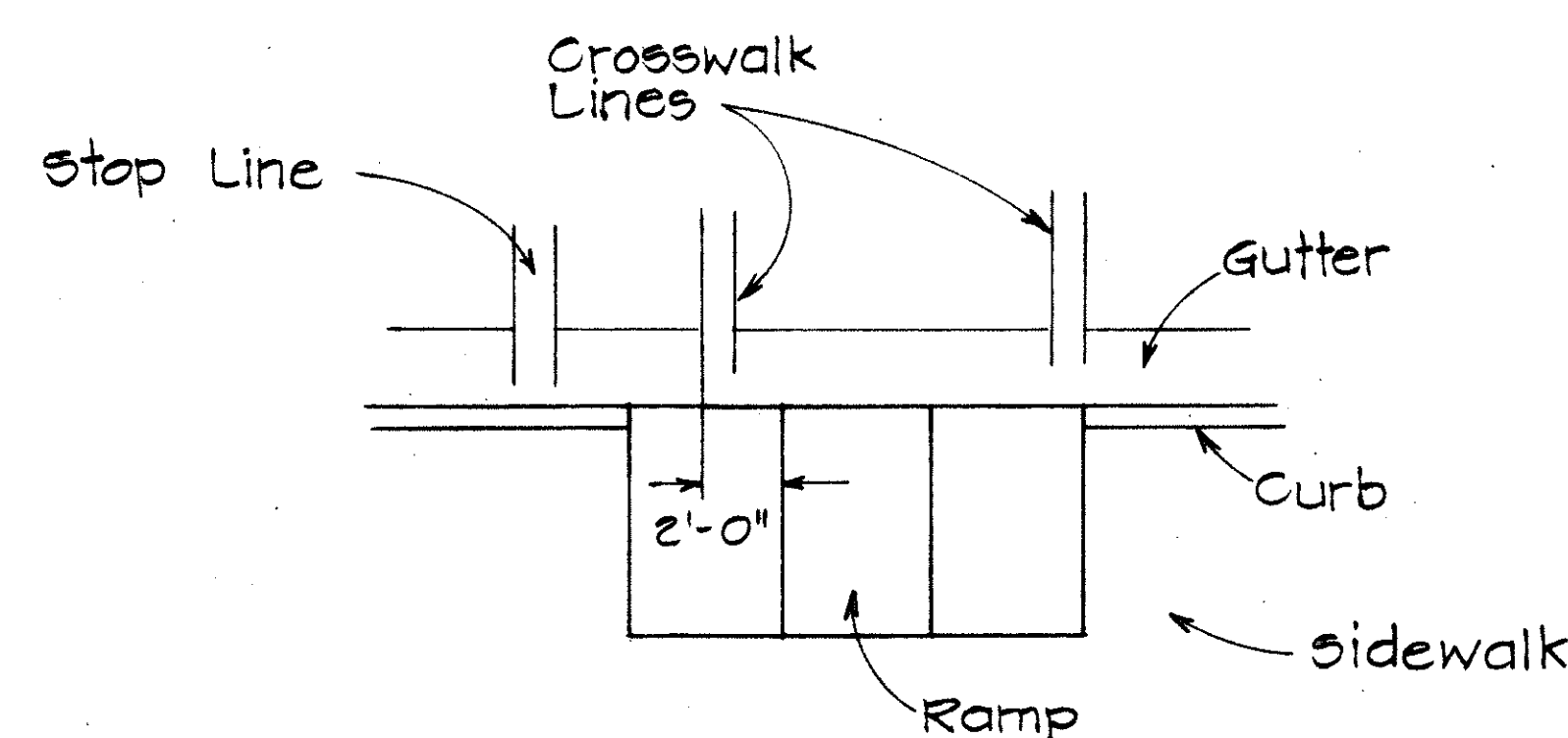
FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	IR-H-1(160)	1982	6	39



SECTION "A-A"

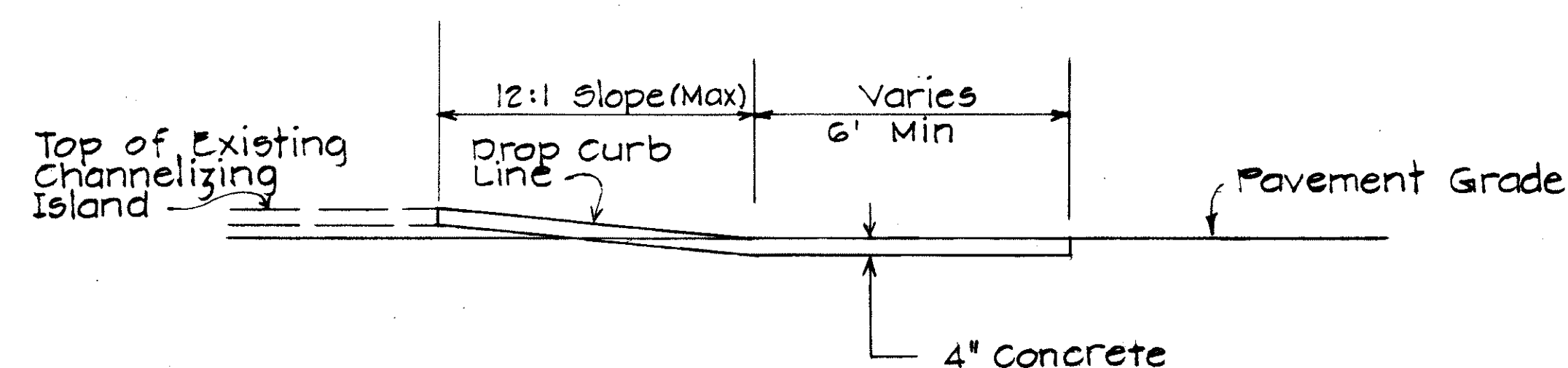
Use at Median Nose Crossings
Scale: 1" = 5'

For Additional Details, See Type "C" Wheel Chair Ramp



TYPICAL INSTALLATION AT CROSSWALKS

Scale: 1" = 5'



SECTION "B-B"

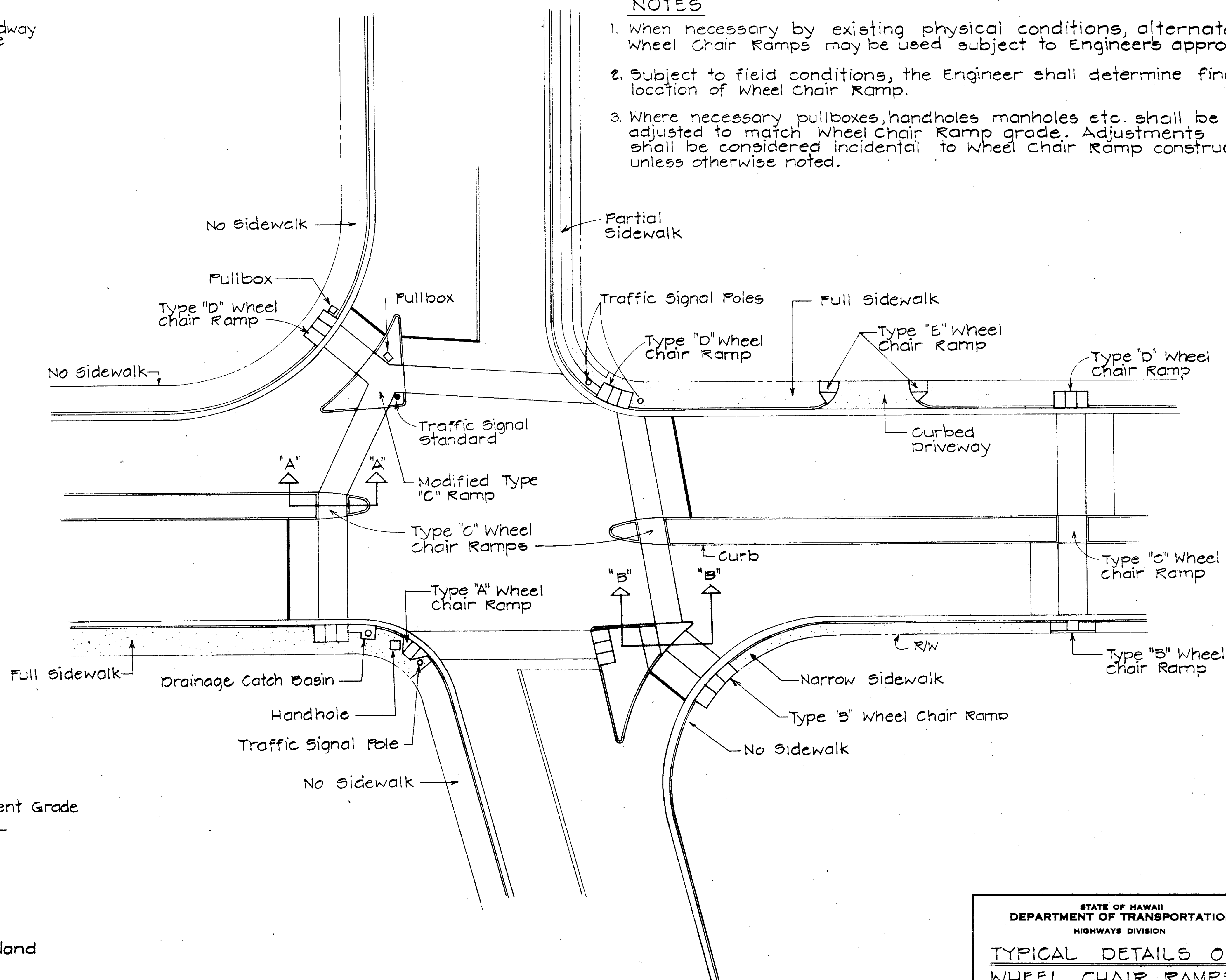
TYPE "B" MODIFIED WHEEL CHAIR RAMP

Use at Intersection of 2 Crosswalks On Channelizing Island
Scale: 3/8" = 1'

For Additional Details See Type "B" Wheelchair Ramp

NOTES

1. When necessary by existing physical conditions, alternate Wheel Chair Ramps may be used subject to Engineer's approval.
2. Subject to field conditions, the Engineer shall determine final location of Wheel Chair Ramp.
3. Where necessary pullboxes, handholes manholes etc. shall be adjusted to match Wheel Chair Ramp grade. Adjustments shall be considered incidental to Wheel Chair Ramp construction, unless otherwise noted.



TYPICAL WHEEL CHAIR RAMPS

Scale: 1" = 20'

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

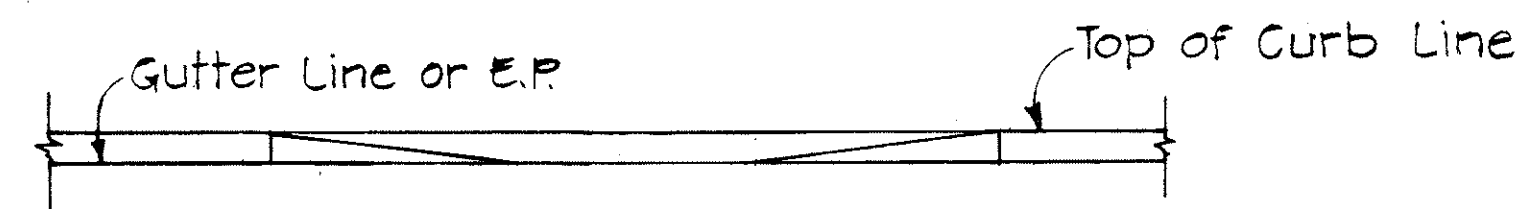
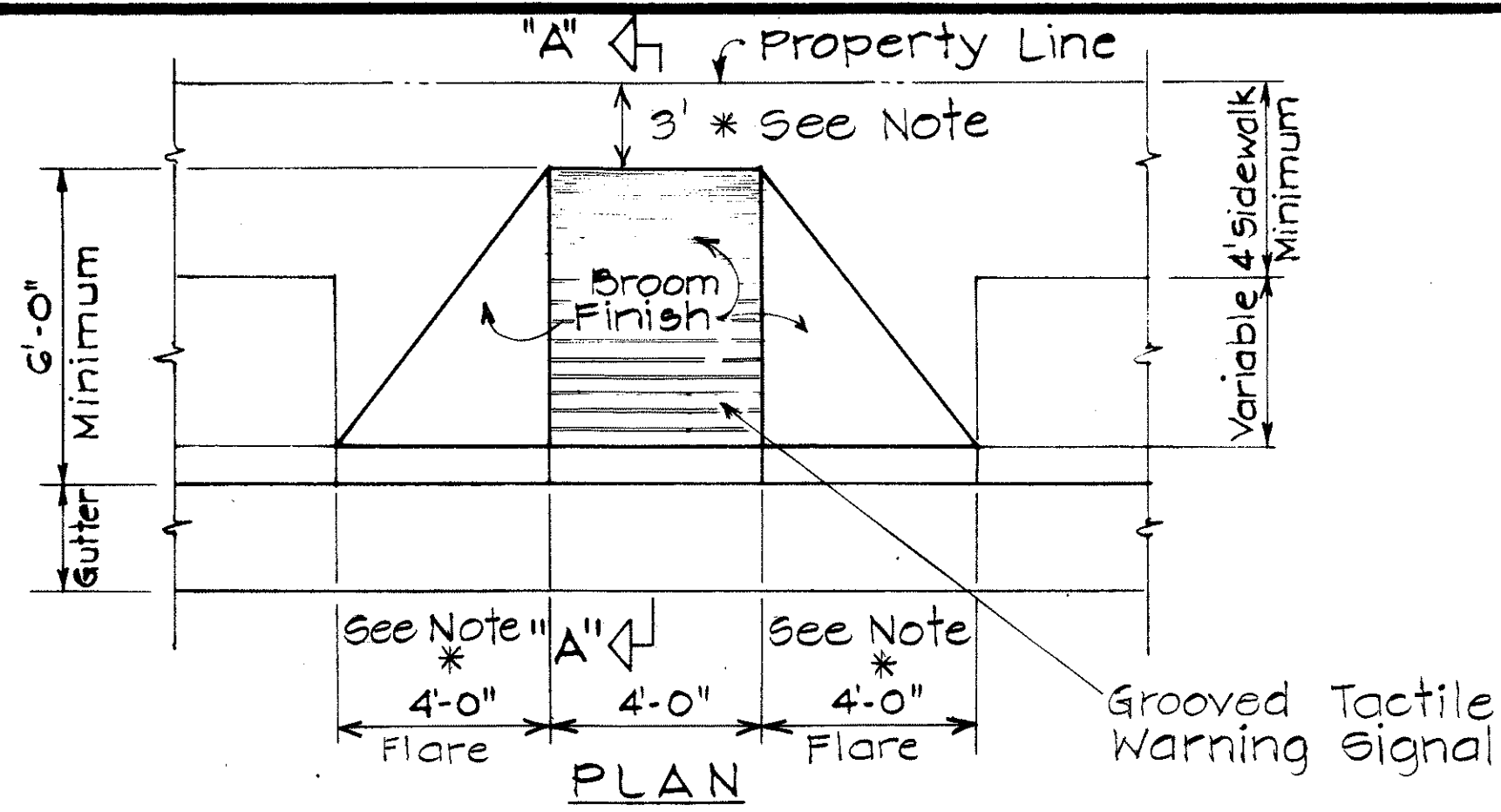
TYPICAL DETAILS OF WHEEL CHAIR RAMPS

Scale: As Shown May, 1978

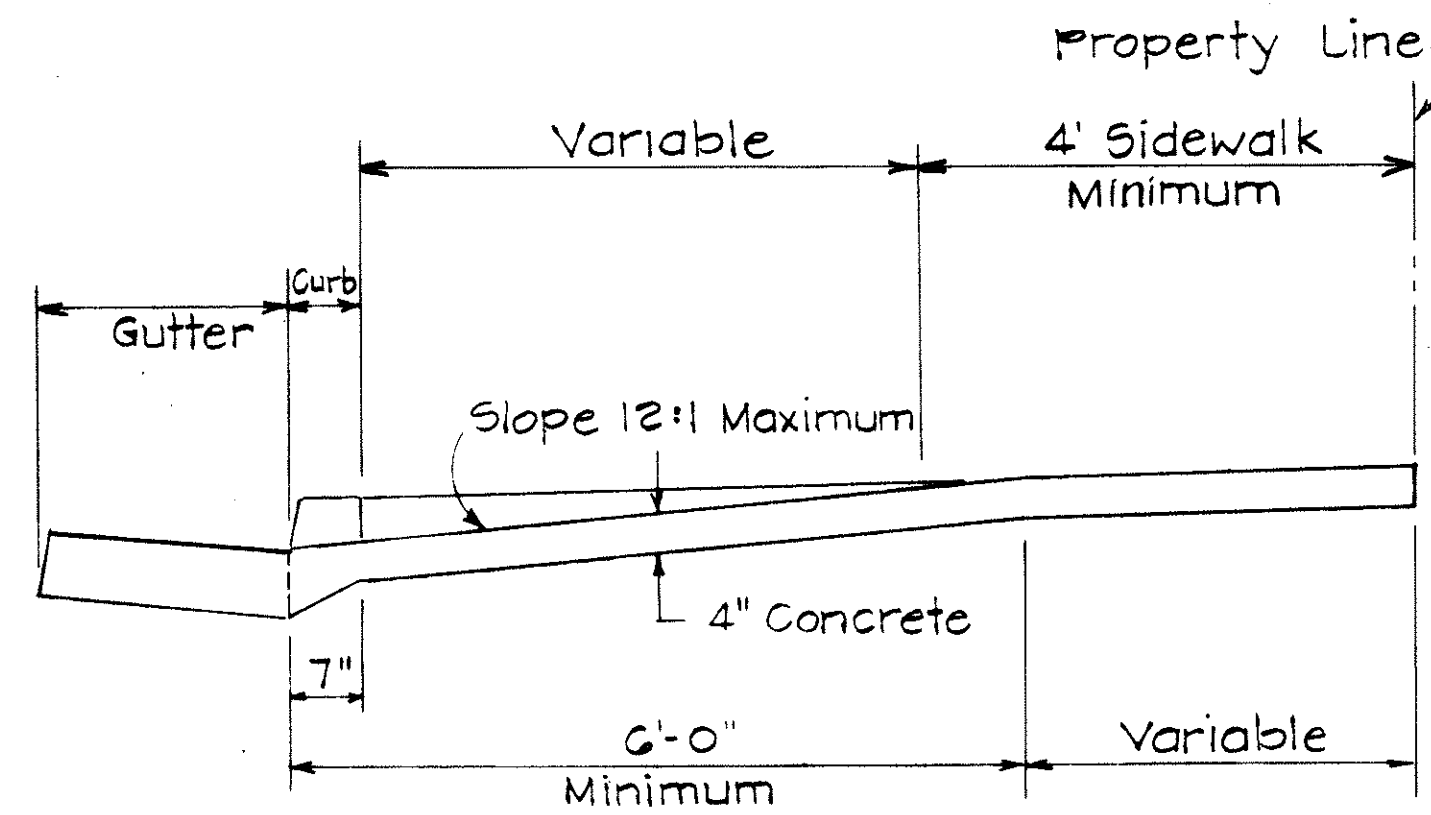
SHEET NO. 2 OF 6 SHEETS

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

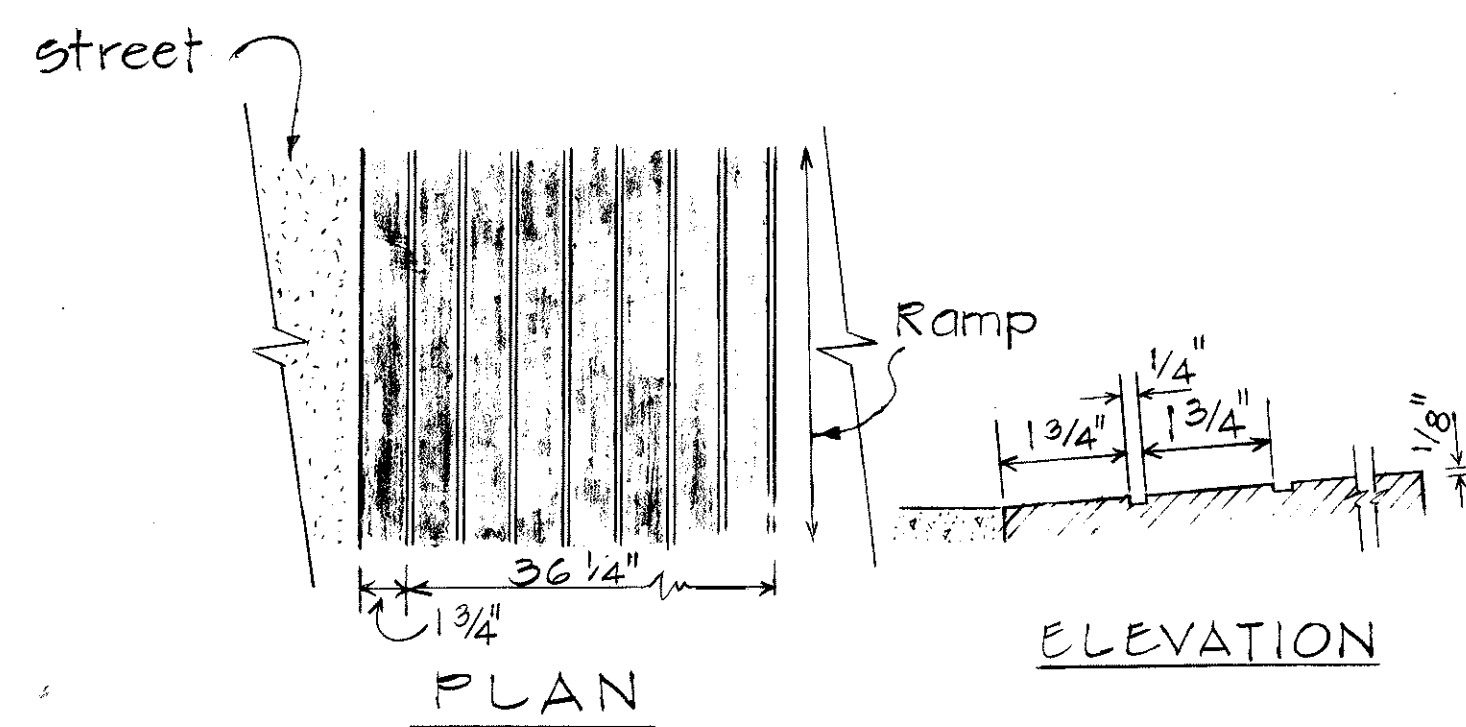
FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	IR-H-1(160)	1982	7	39



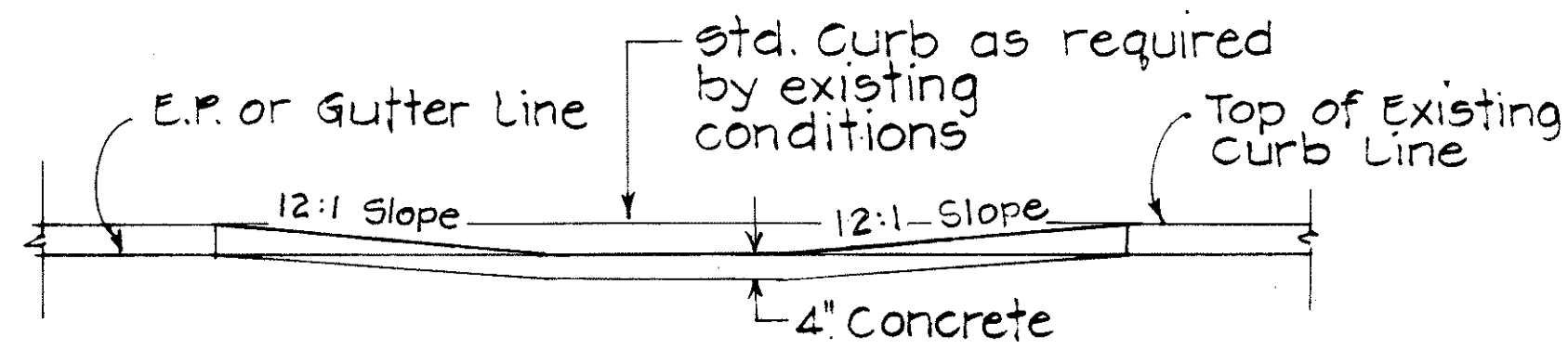
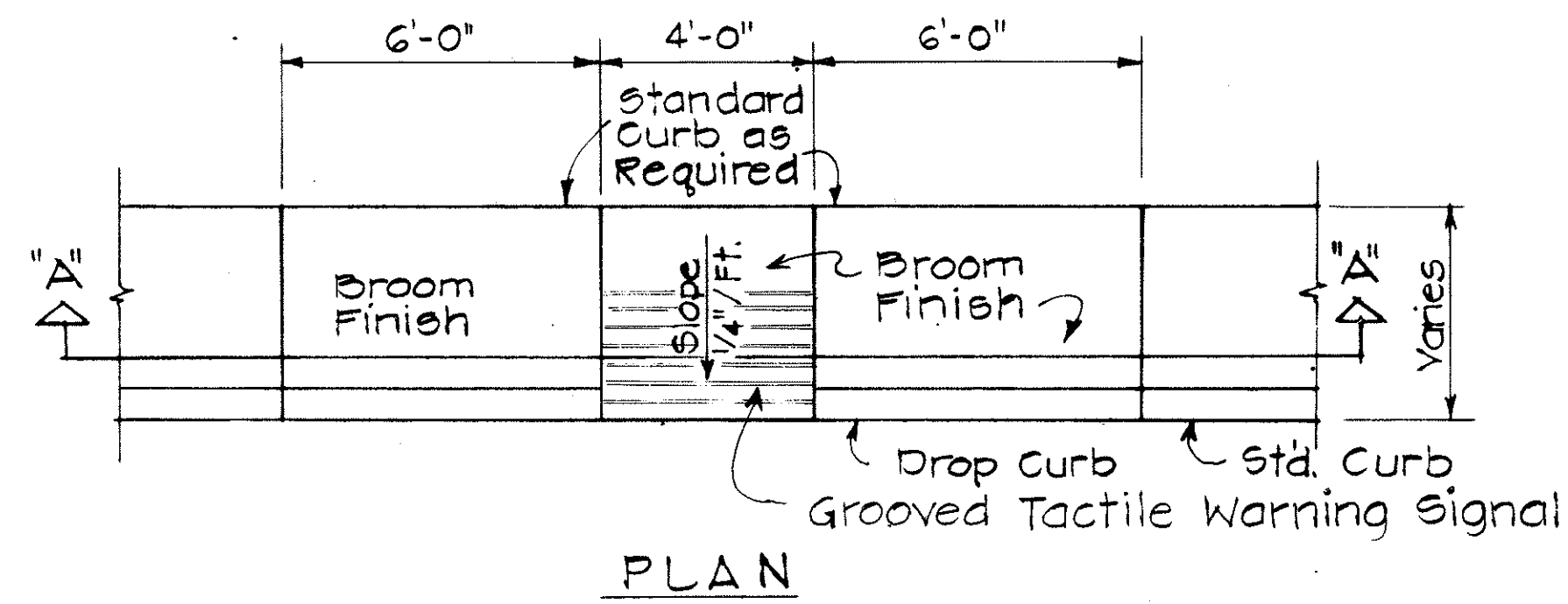
* Where dimension is less than 3', Flare width shall be 5'



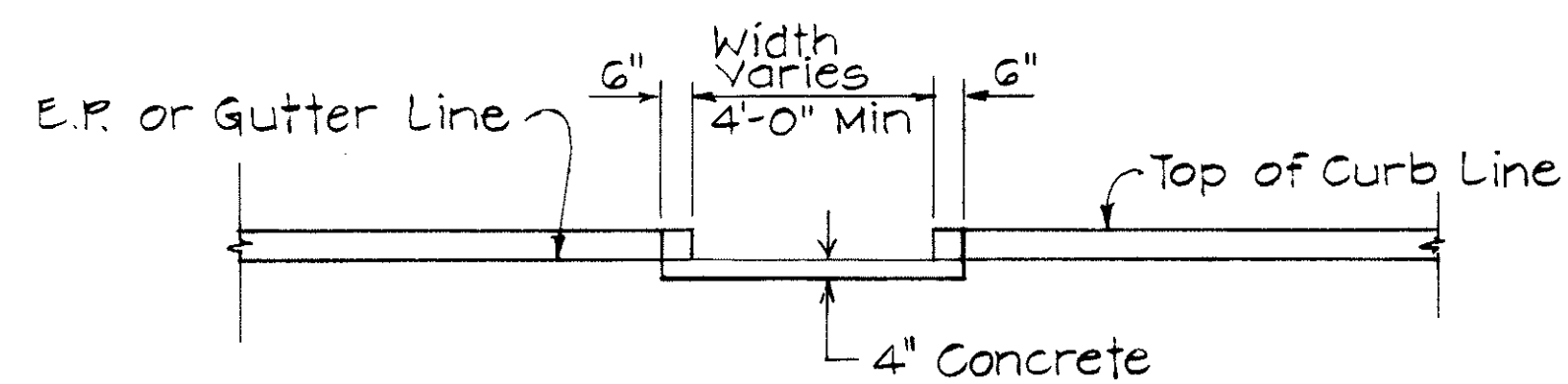
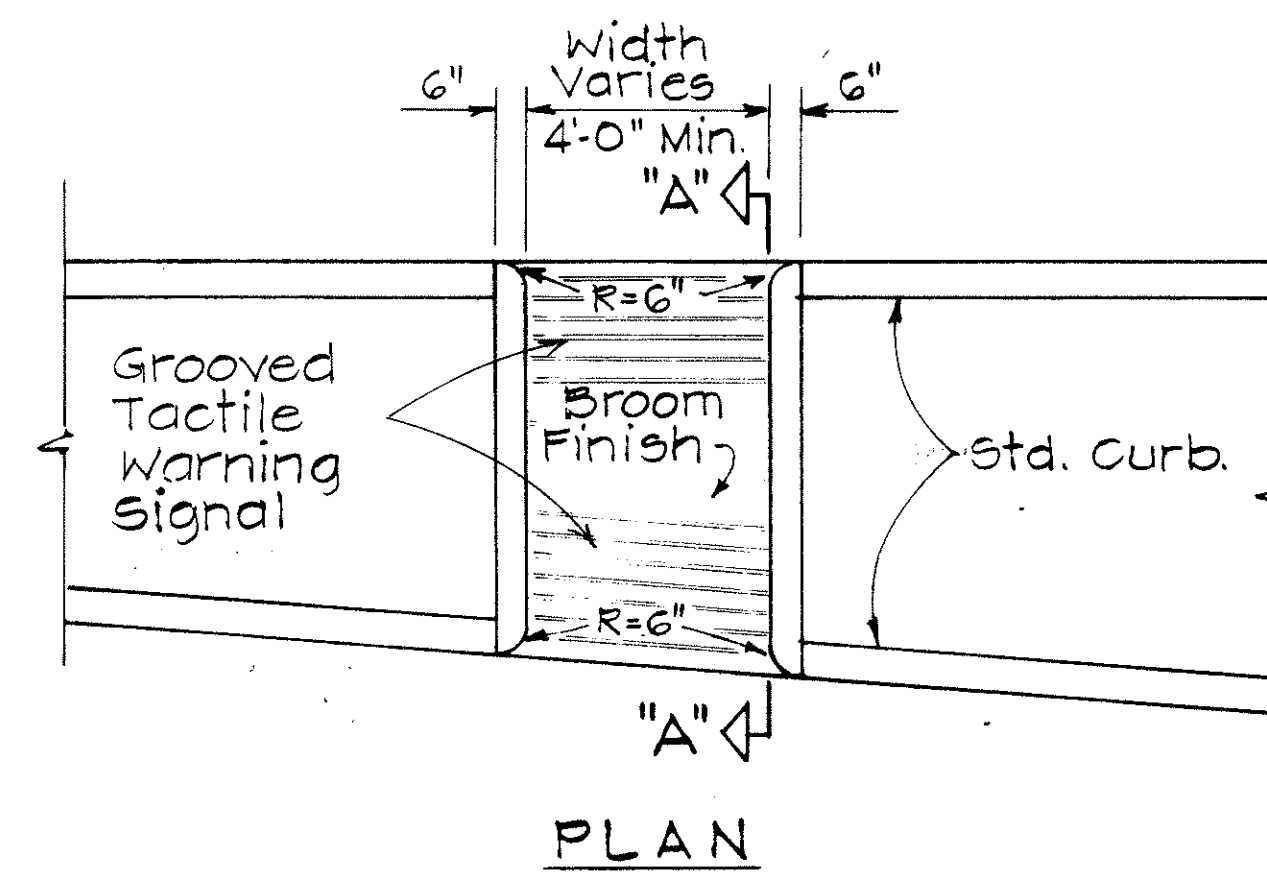
WHEELCHAIR RAMP - TYPE "A"
USE WHERE OBSTRUCTIONS EXIST



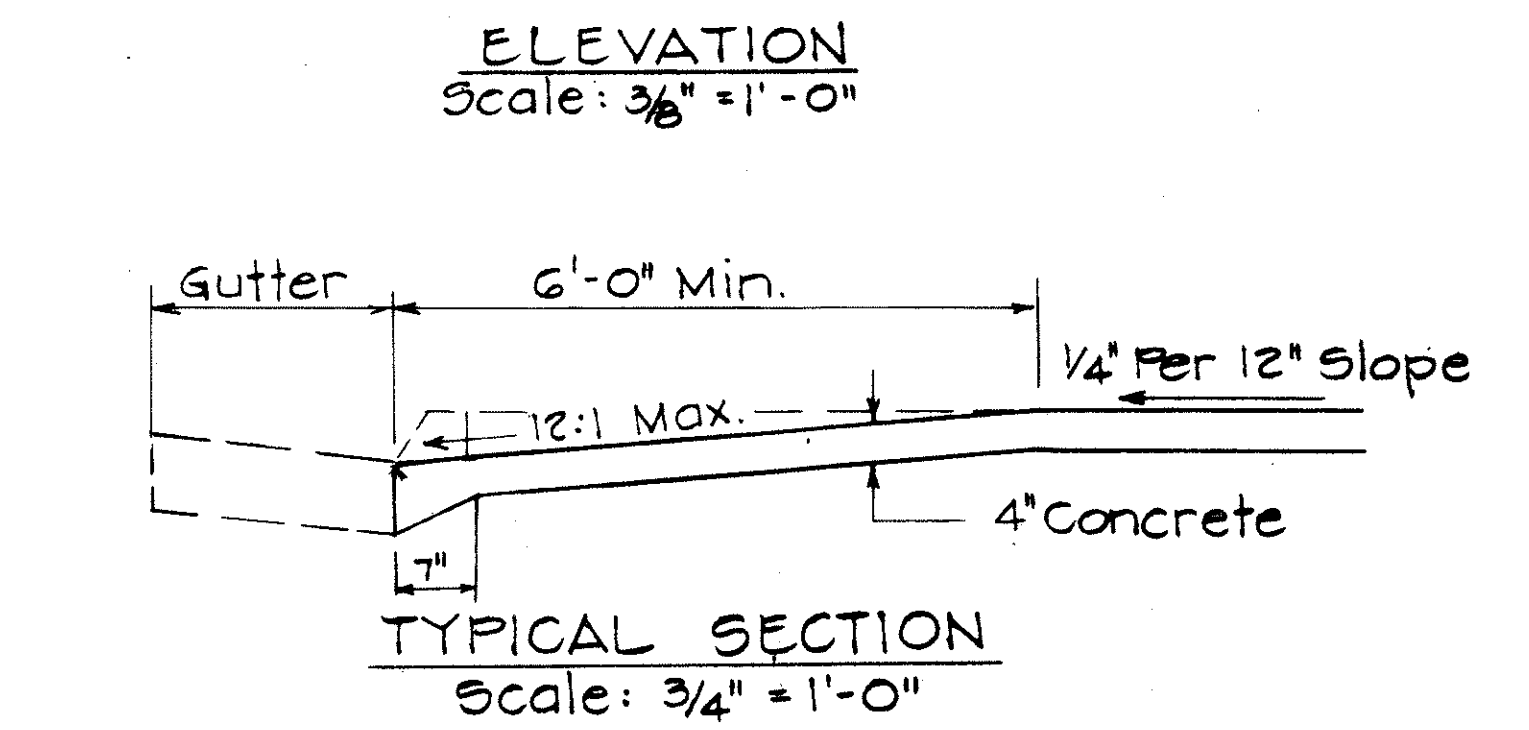
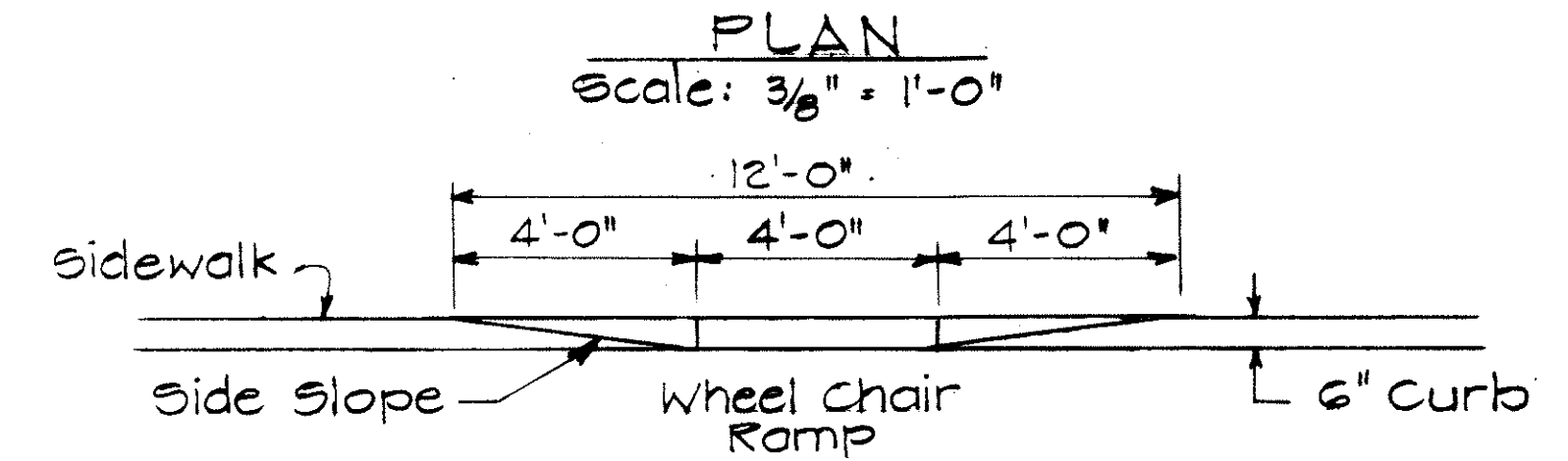
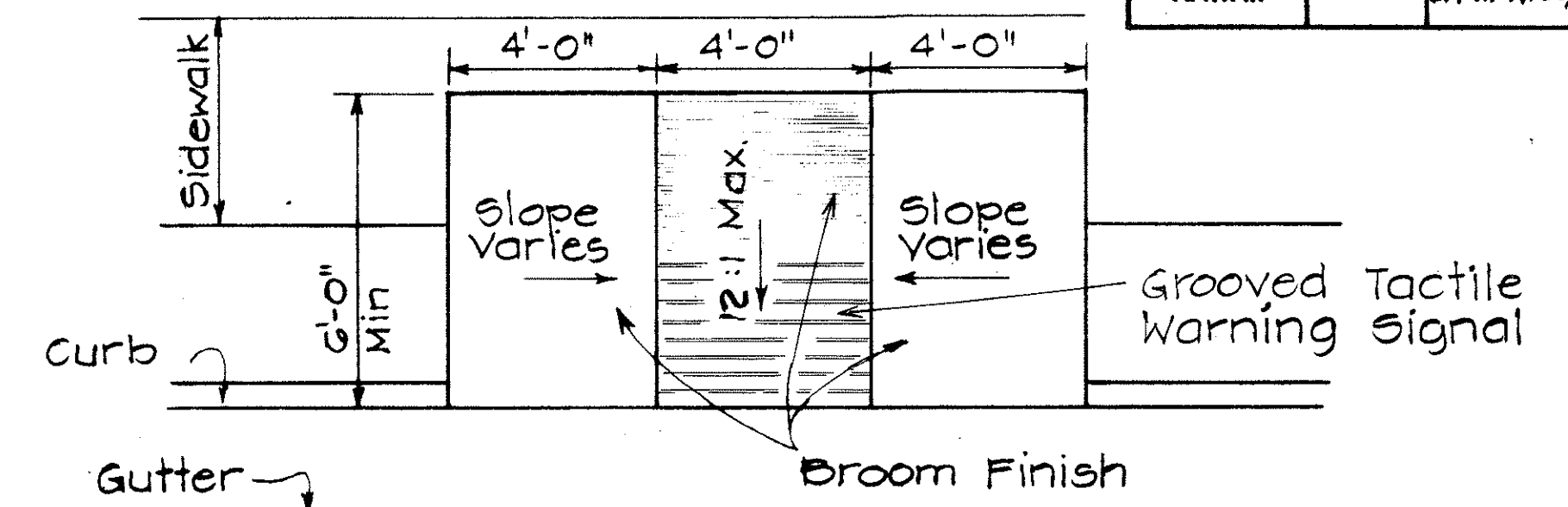
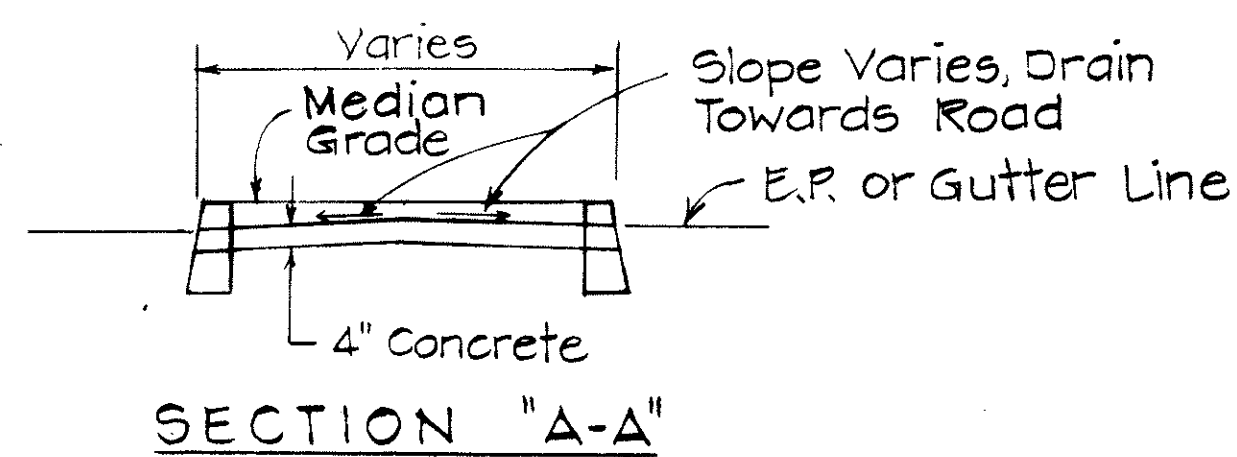
GROOVED TACTILE WARNING SIGNAL



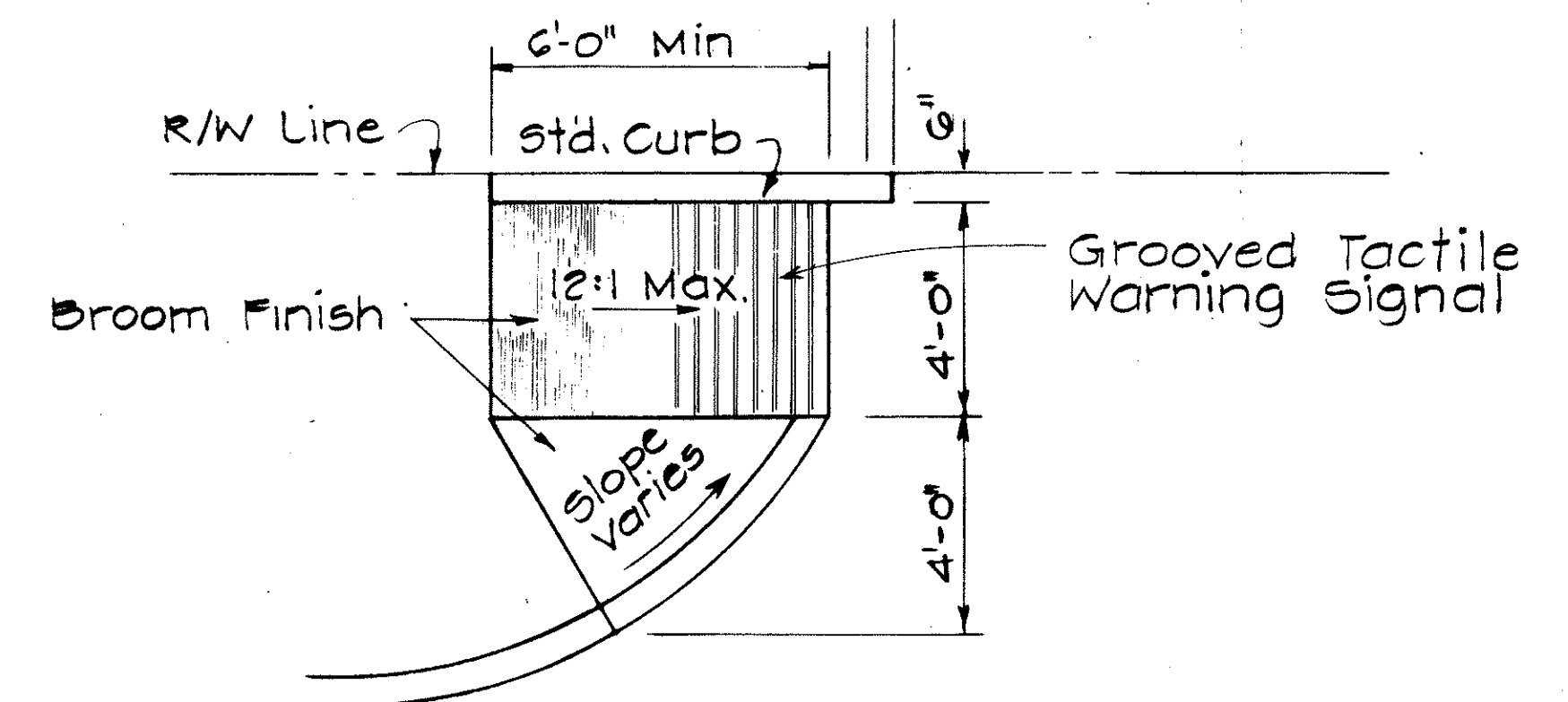
WHEELCHAIR RAMP - TYPE "B"
USE AT SIDEWALKS WITH LESS THAN 6'-0" WIDTH



WHEELCHAIR RAMP - TYPE "C"
USE AT MEDIAN CROSSINGS, ISLANDS

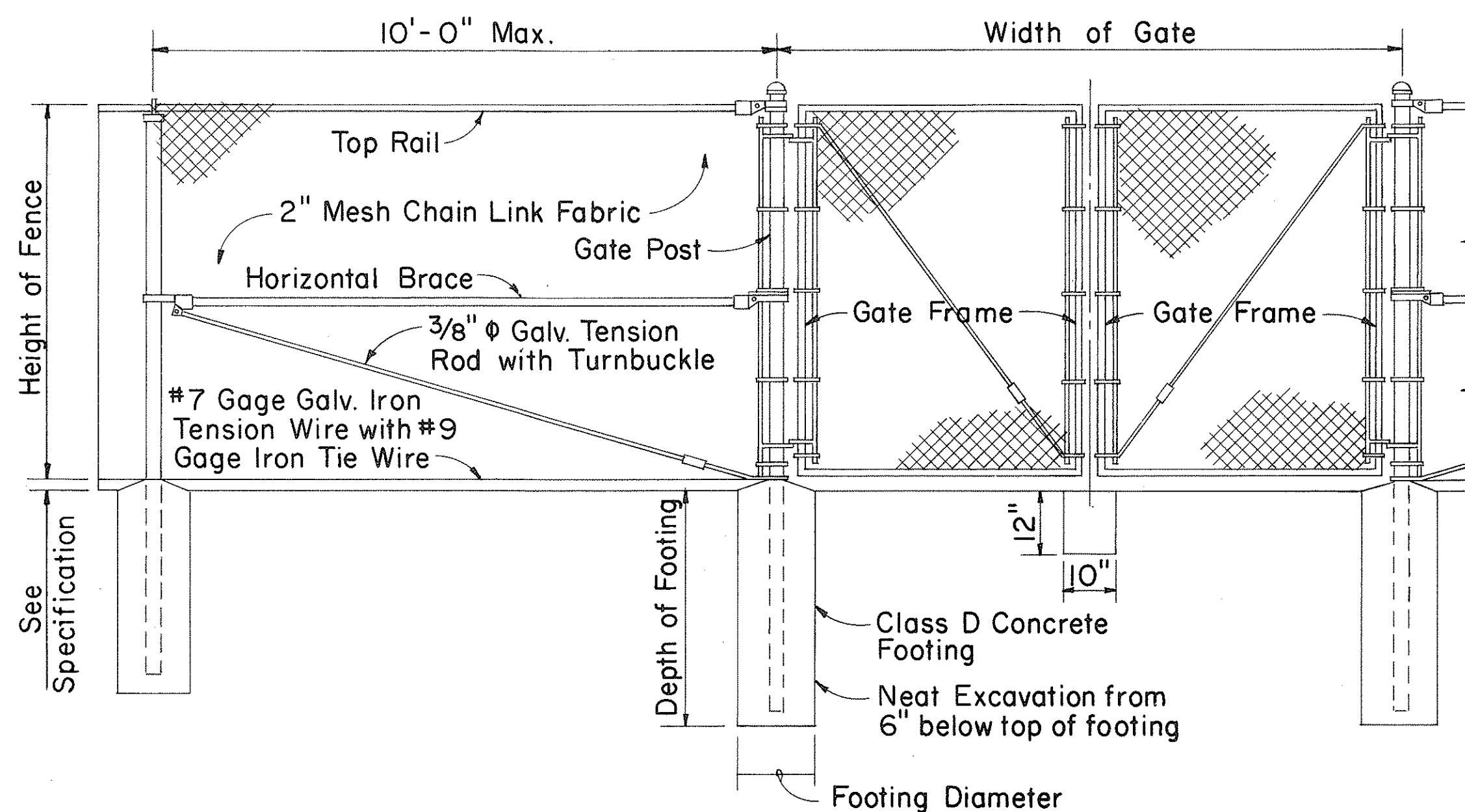


WHEELCHAIR RAMP - TYPE "D"
USE WHEN IDEAL CONDITIONS EXIST

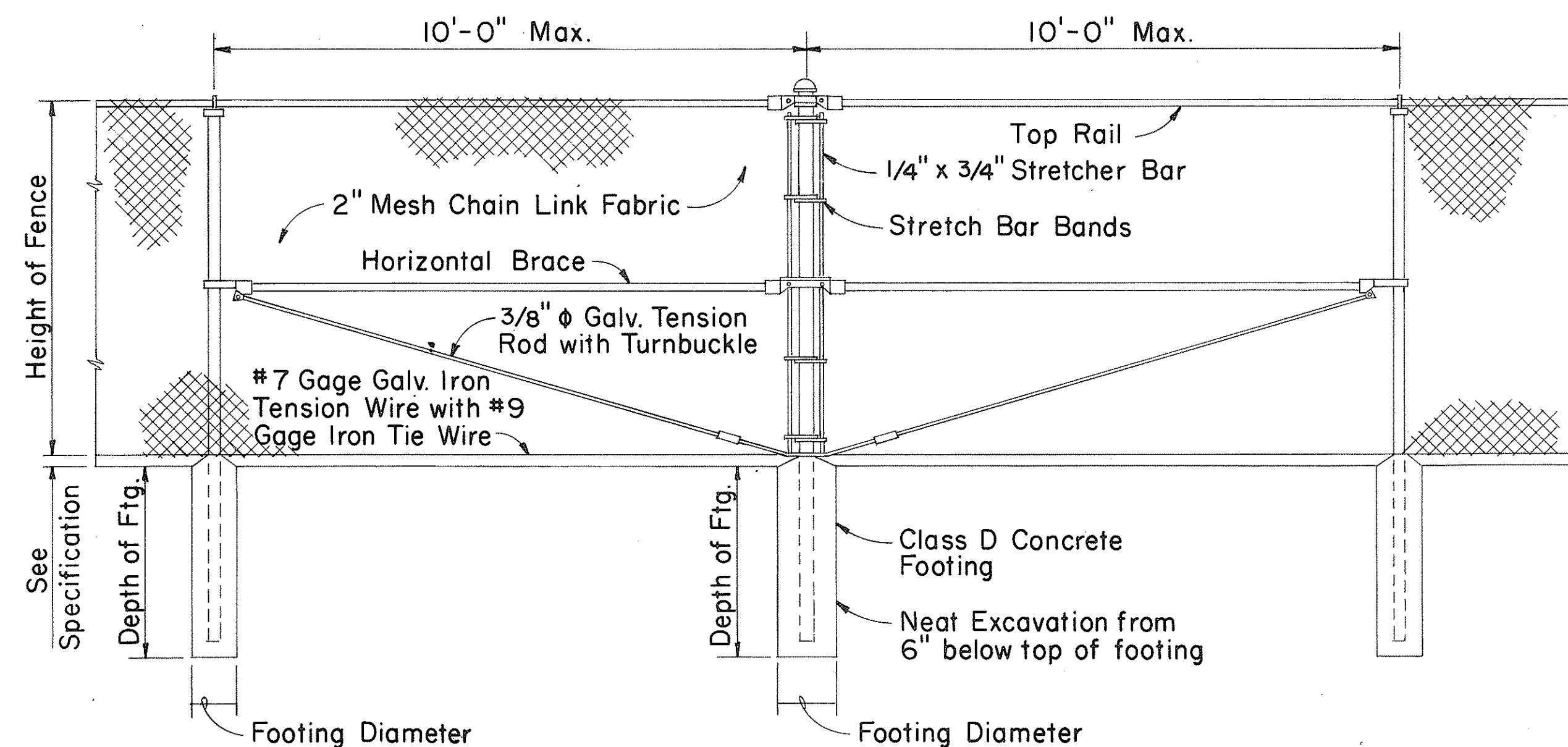


WHEELCHAIR RAMP - TYPE "E"
USE AT CURBED DRIVEWAYS
Scale: 3/8" = 1'-0"

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	IR-HI-1(160)	1982	8	39

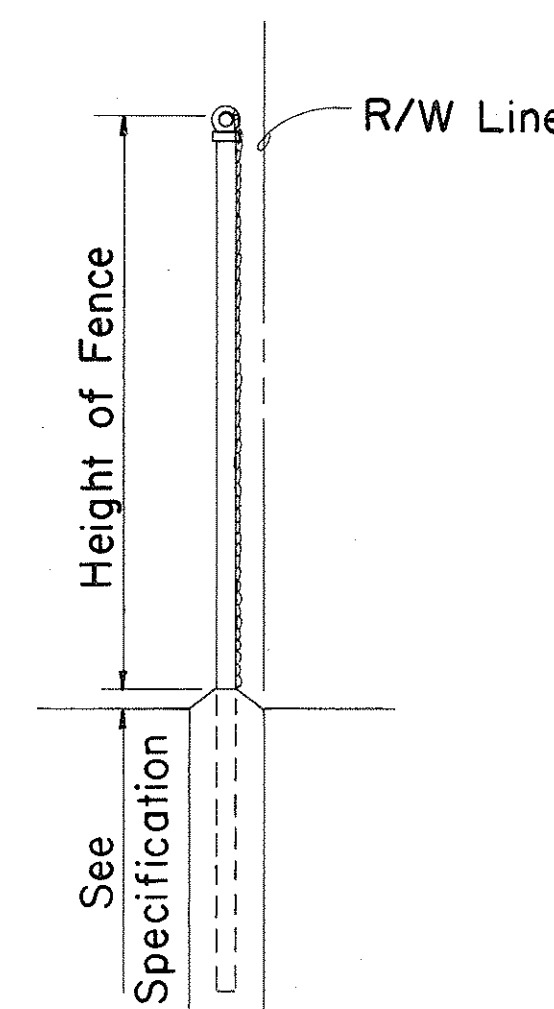


LINE POST GATE POST GATE POST



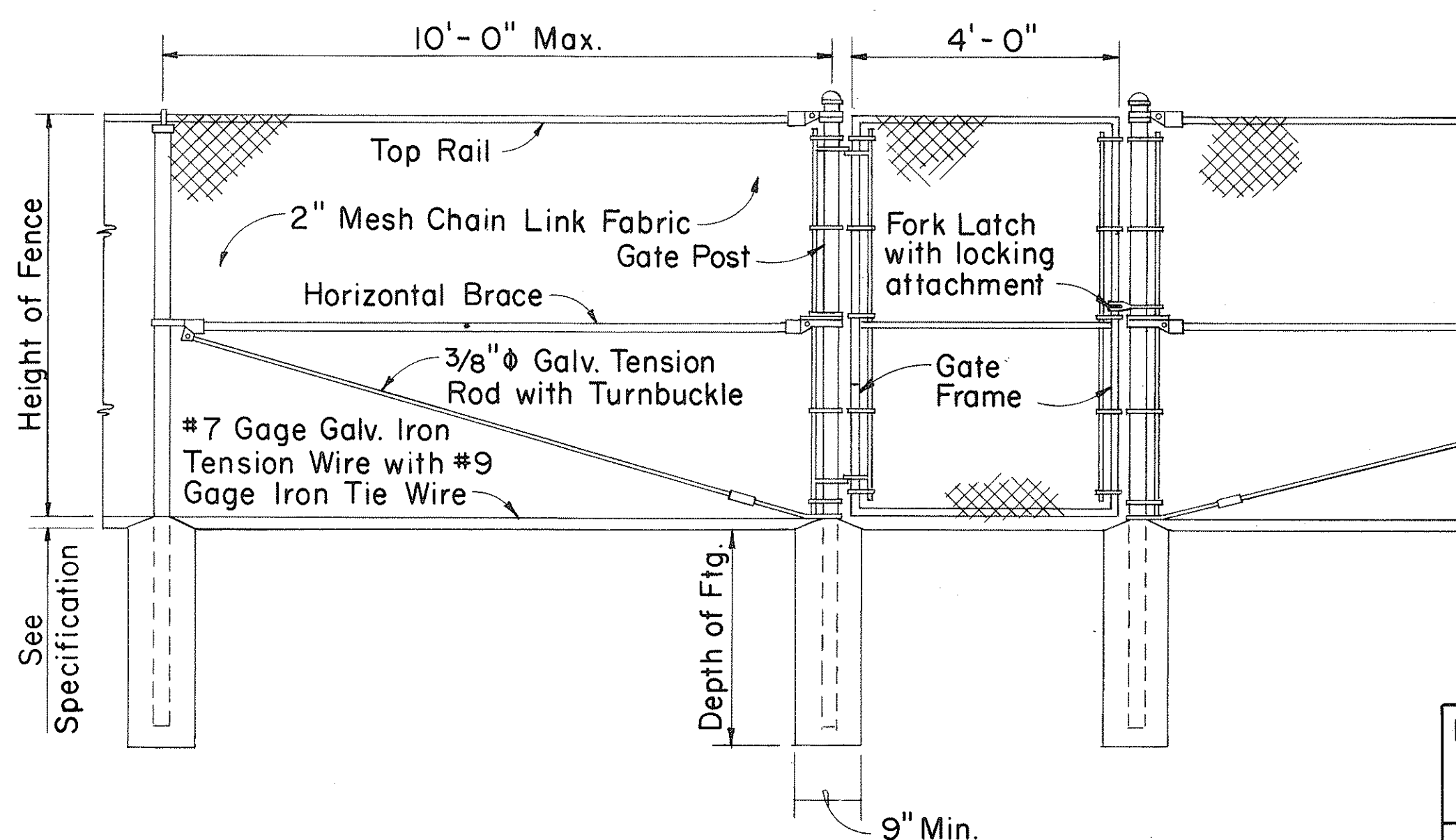
LINE POST PULL POST LINE POST

TYPICAL SECTION
(WITH CONCRETE FOOTING)



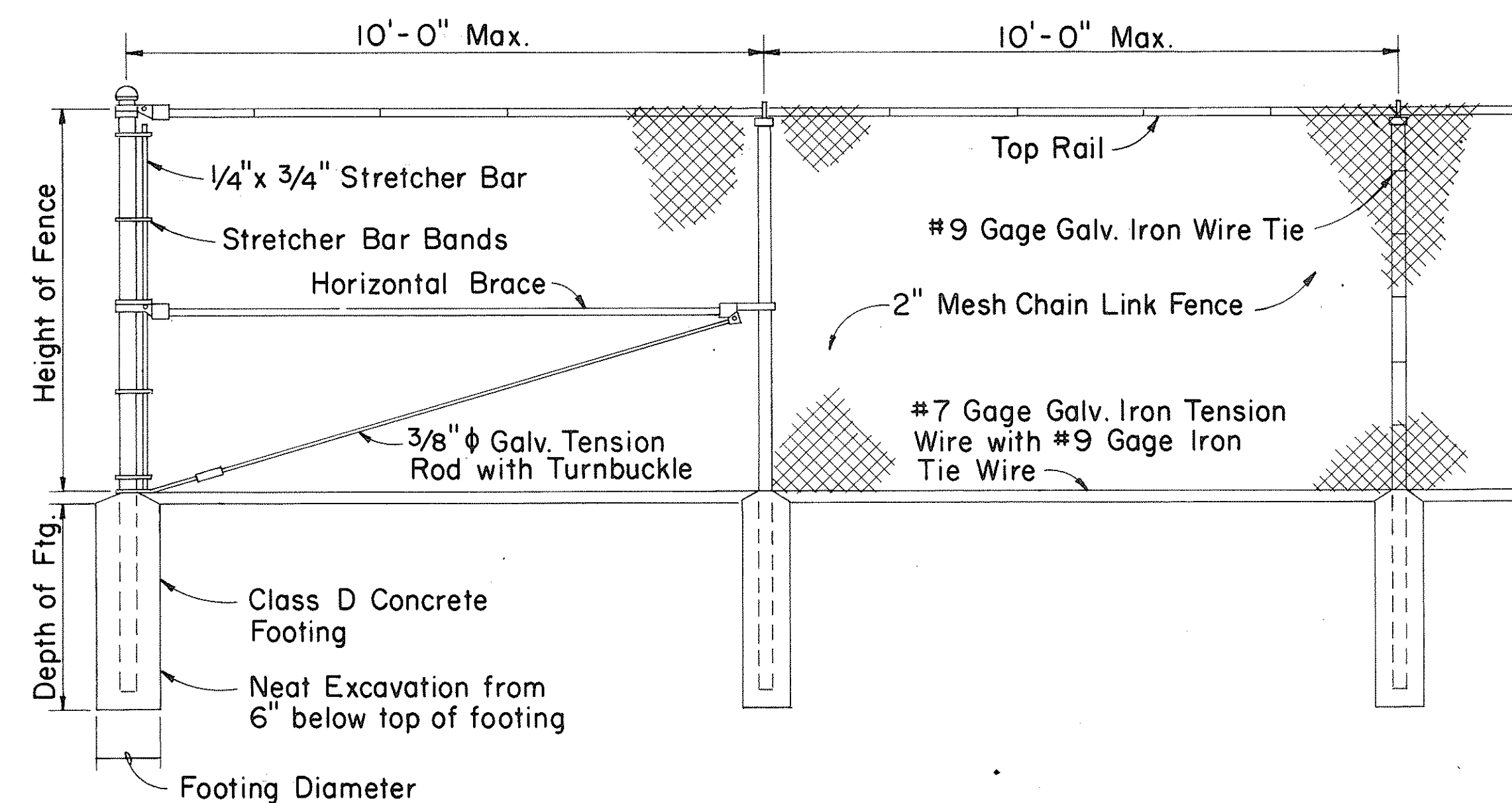
DETAIL OF CHAIN LINK GATE

- 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.

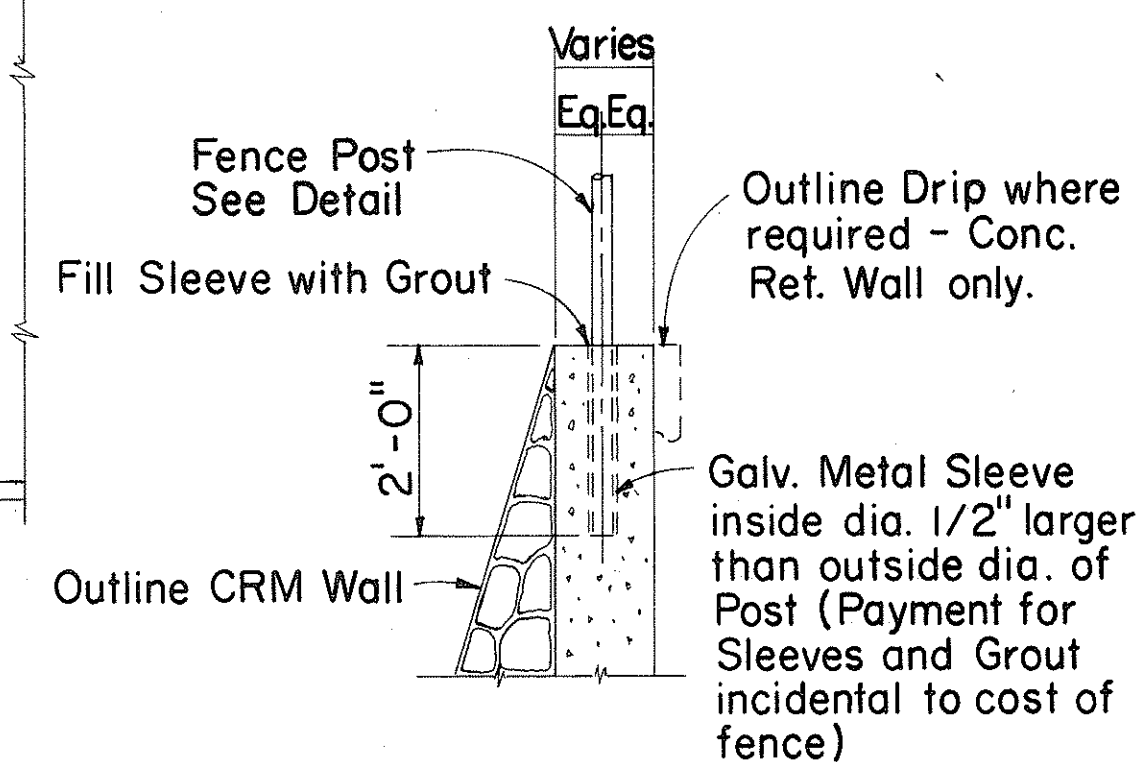


LINE POST GATE POST GATE POST

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:
M. Higgins 12-4-69
HIGHWAY DESIGN ENGINEER DATE

APPROVED:
John P. Sabel 12-10-69
ASSISTANT CHIEF, ENGINEERING DATE

NO	REVISION	APPROVED BY	DATE

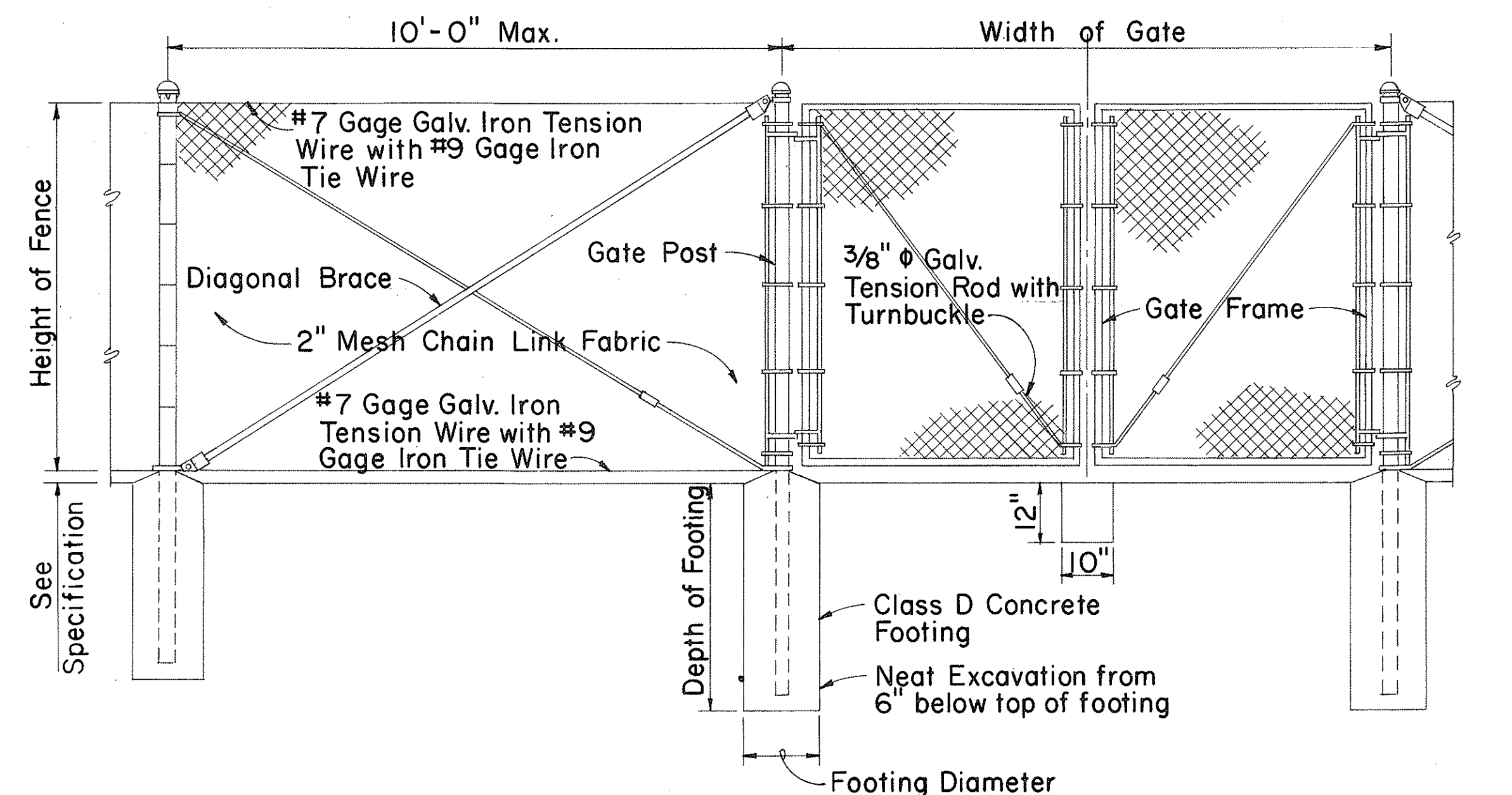
STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

STANDARD DETAILS

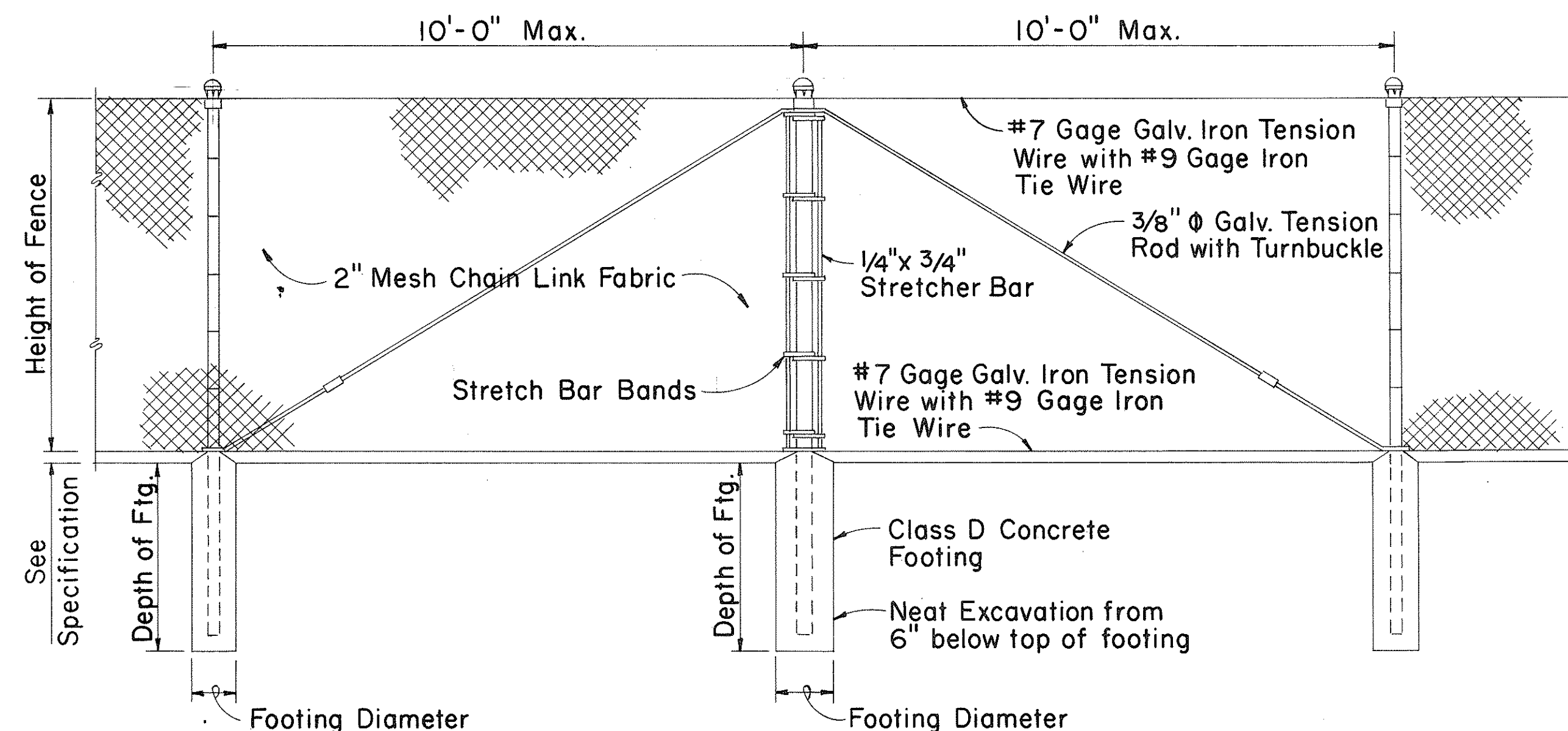
CHAIN LINK FENCE
(WITH TOPRAIL)

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

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	IR-HI-1(160)	1982	9	39



LINE POST GATE POST GATE POST

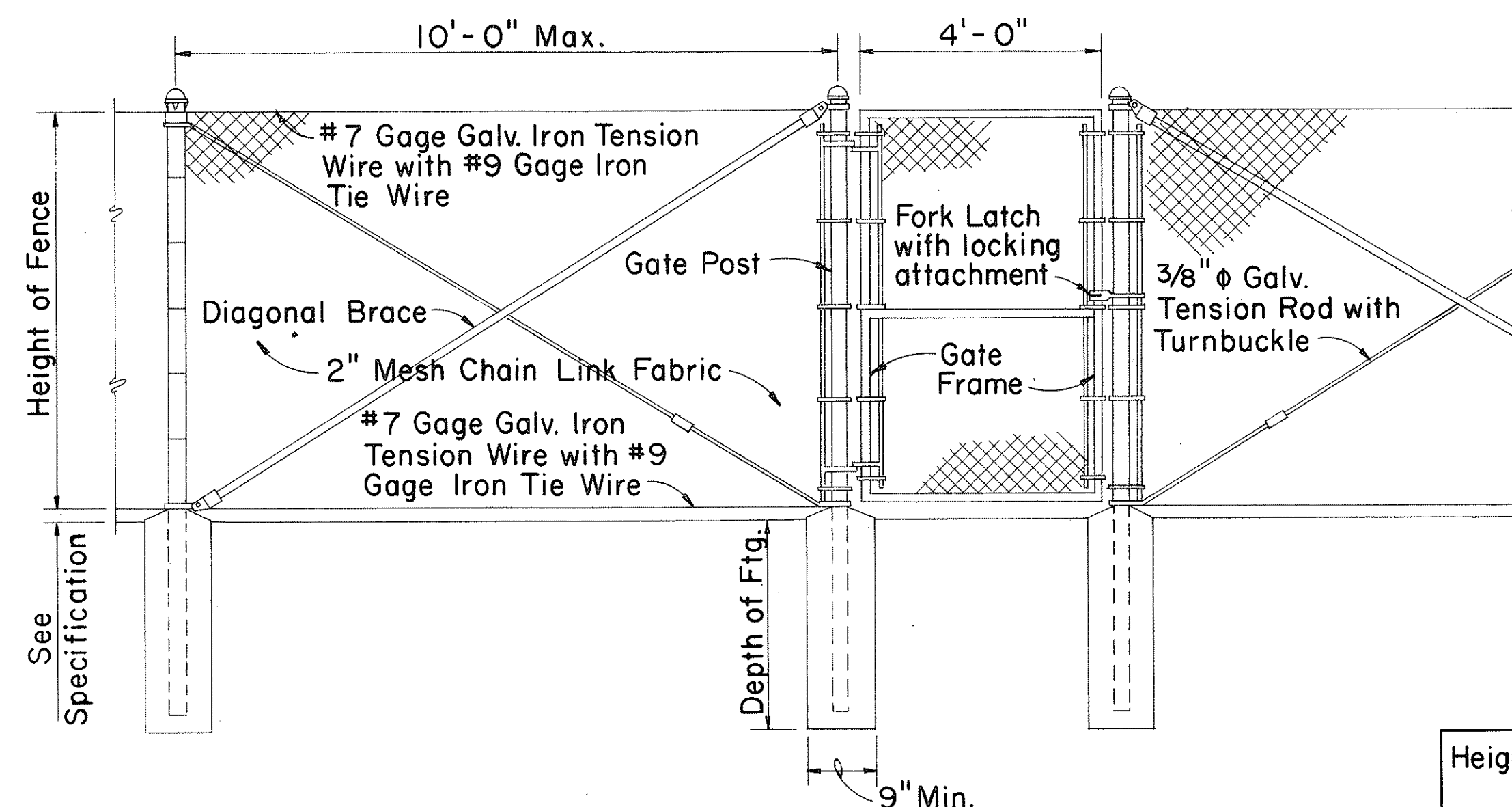


LINE POST PULL POST LINE POST

TYPICAL SECTION
(WITH CONCRETE FOOTING)

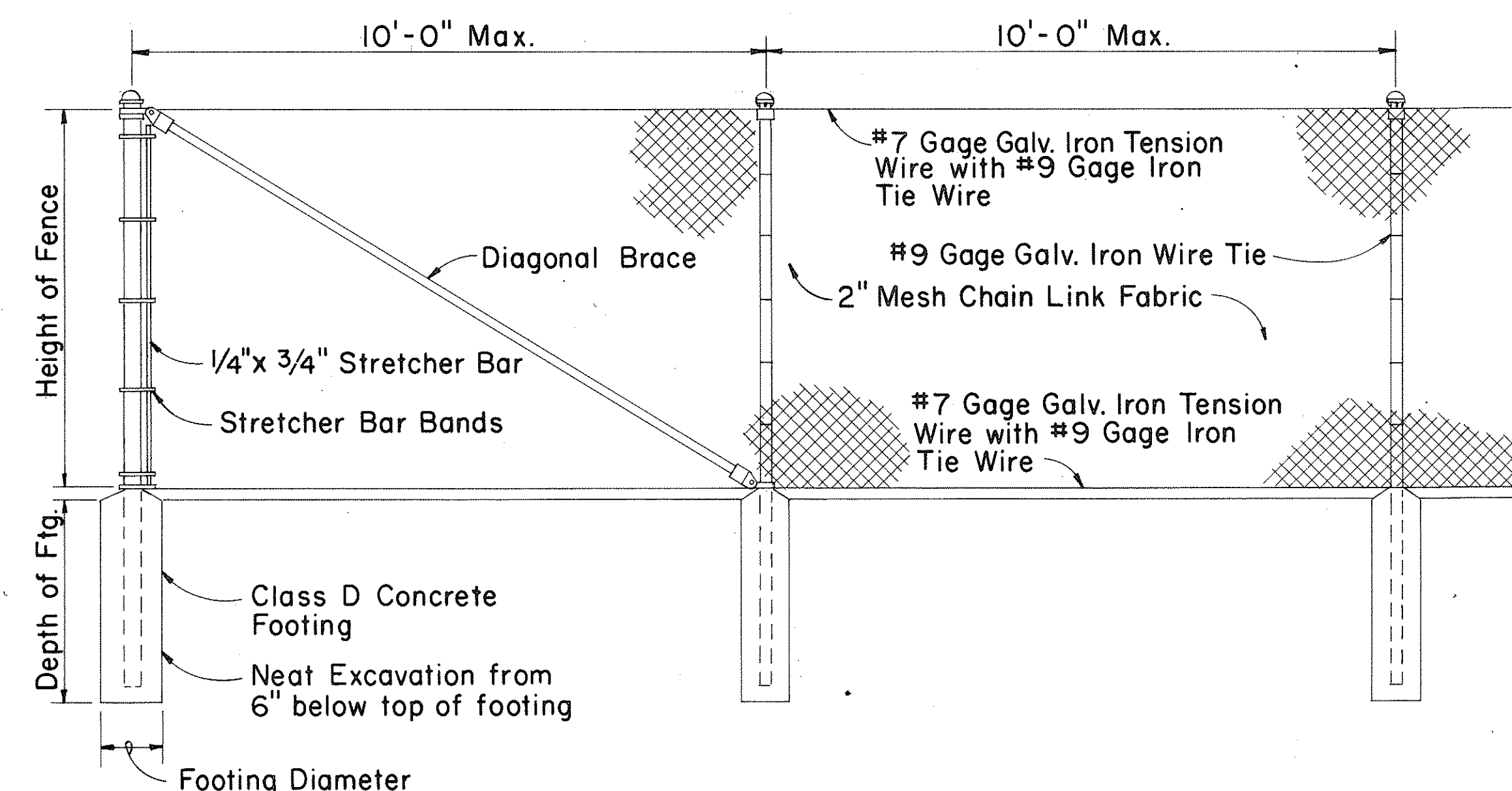
DETAIL OF CHAIN LINK GATE

- 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

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:
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

CHAIN LINK FENCE
(WITHOUT TOPRAIL)

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

