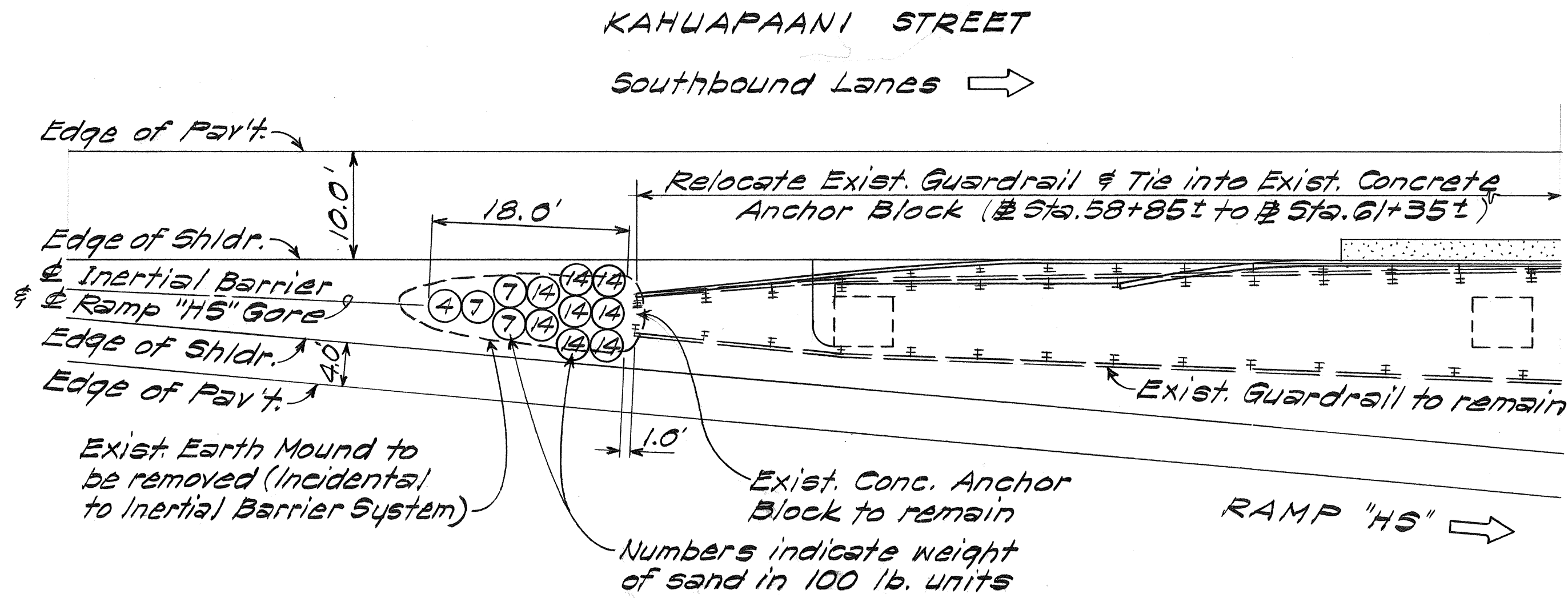
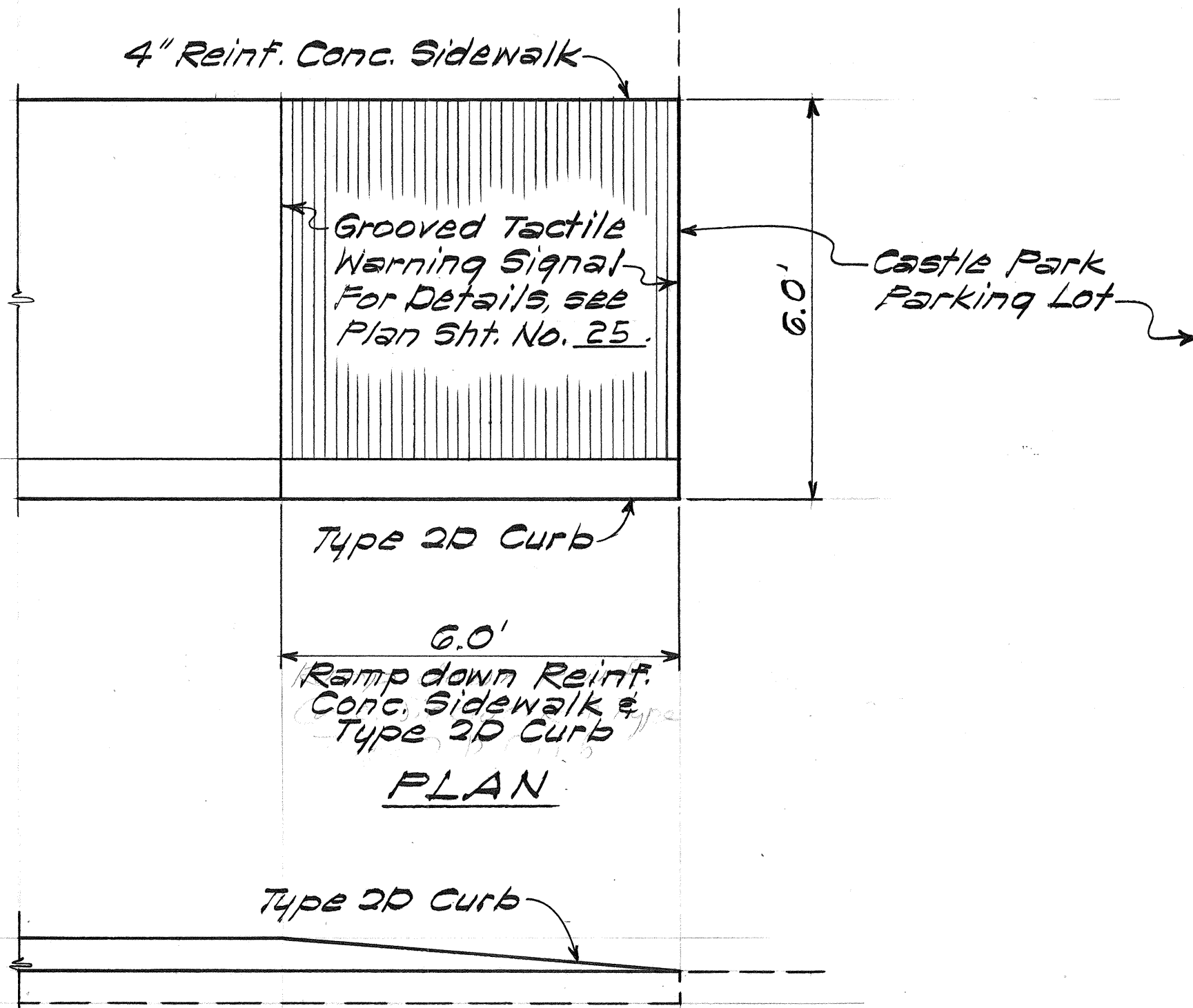


FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-HI-1(96):13	1981	23	112



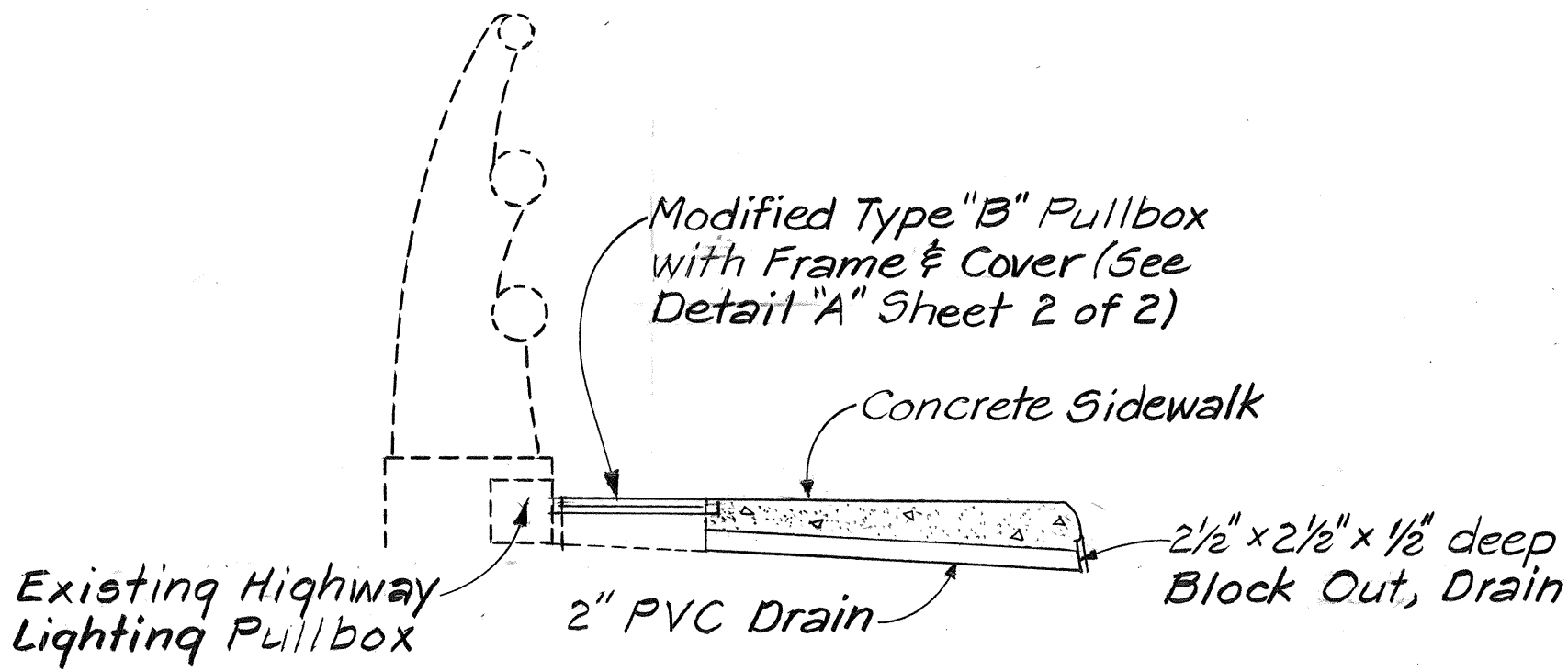
QUANTITIES OF INERTIAL BARRIER MODULES			
APPROXIMATE LOCATION	MODULE SIZE BY WT. (LBS.)		
	400	700	1400
Ramp "HS" Gore	1 Ea.	3 Ea.	8 Ea.
Unassembled Replacement Modules	1 Ea.	3 Ea.	8 Ea.

INSTALLATION OF INERTIAL BARRIER SYSTEM
RAMP "HS" GORE
Scale: 1" = 10'



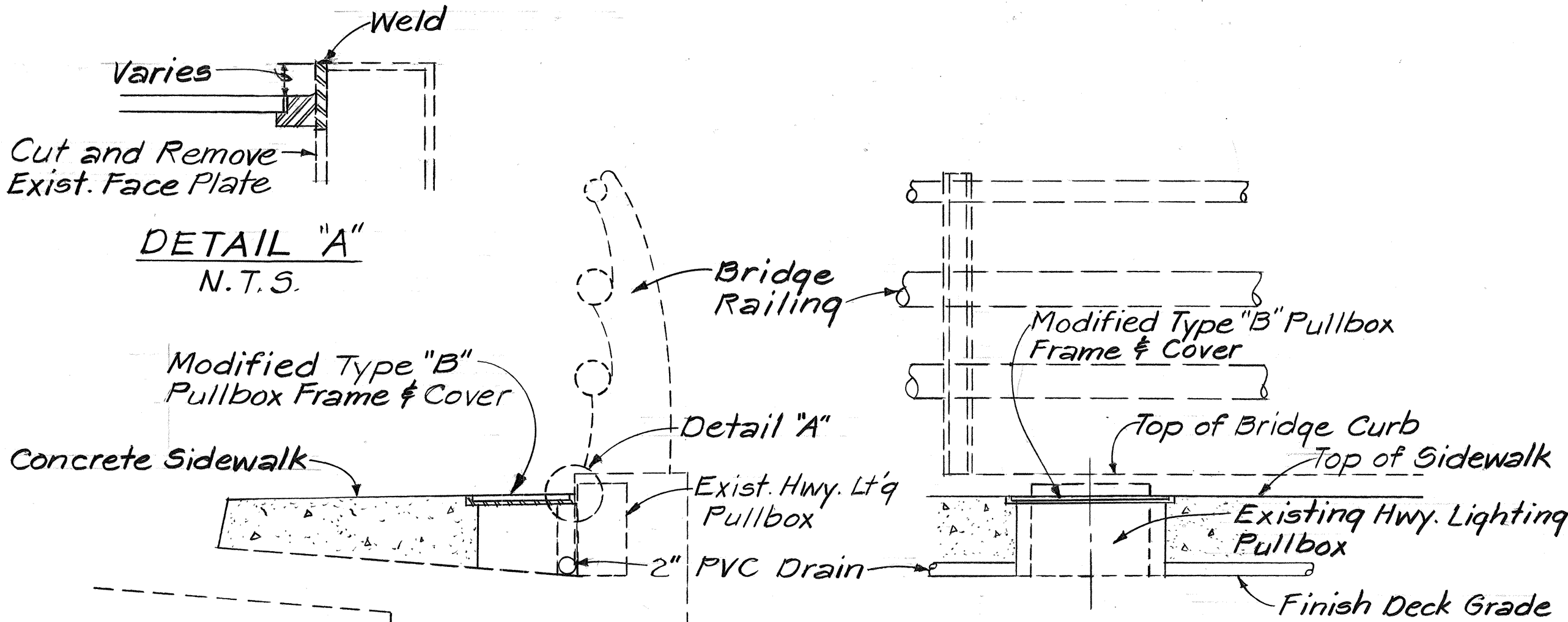
ELEVATION

CONC. SIDEWALK RAMP
AT CASTLE PARK ENTRANCE
Scale: 1/2" = 1'-0"



TYPICAL DETAIL AT EXISTING PULLBOXES ON
BRIDGE CURB NORTHBOUND LANES

Scale: 3/4" = 1'-0"
(C.C.O.#6)



SECTION THRU SIDEWALK
Scale: 3/4" = 1'-0"

TYPICAL DETAIL AT EXISTING PULLBOXES ON
BRIDGE CURB SOUTHBOUND LANES

Scale: 3/4" = 1'-0"
(C.C.O.#6)

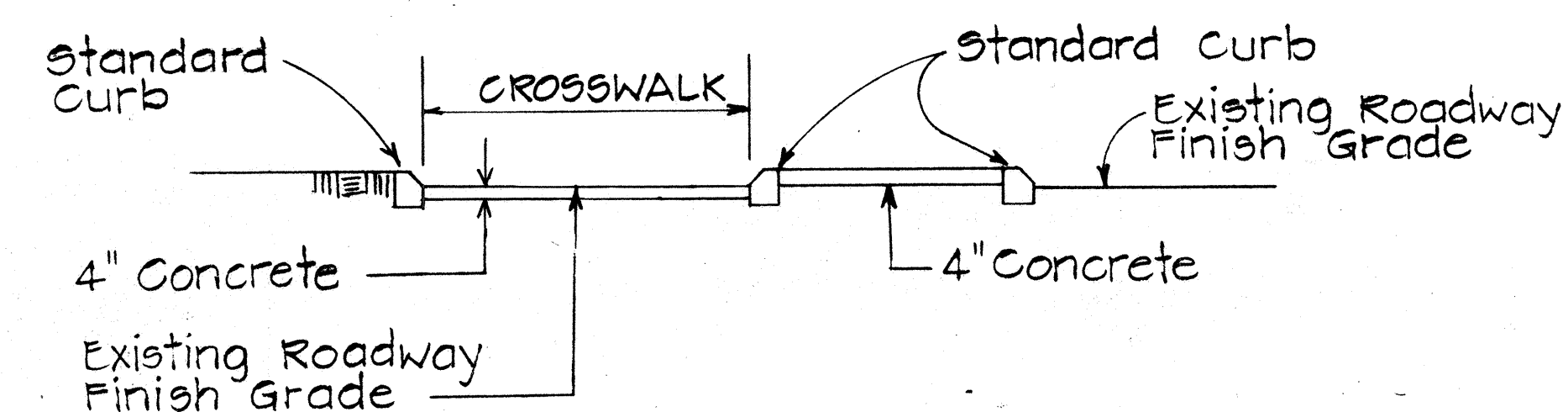
STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
LAND TRANSPORTATION FACILITIES DIVISION

MISCELLANEOUS ROADWAY DETAILS

INTERSTATE ROUTE H-1
HALAWA INTERCHANGE
KAHUAPAANI STREET
F.A.I. Proj. No. I-HI-1(96):13
Scale: As Shown Date: April, 1981
SHEET NO. 23 OF 7 SHEETS

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

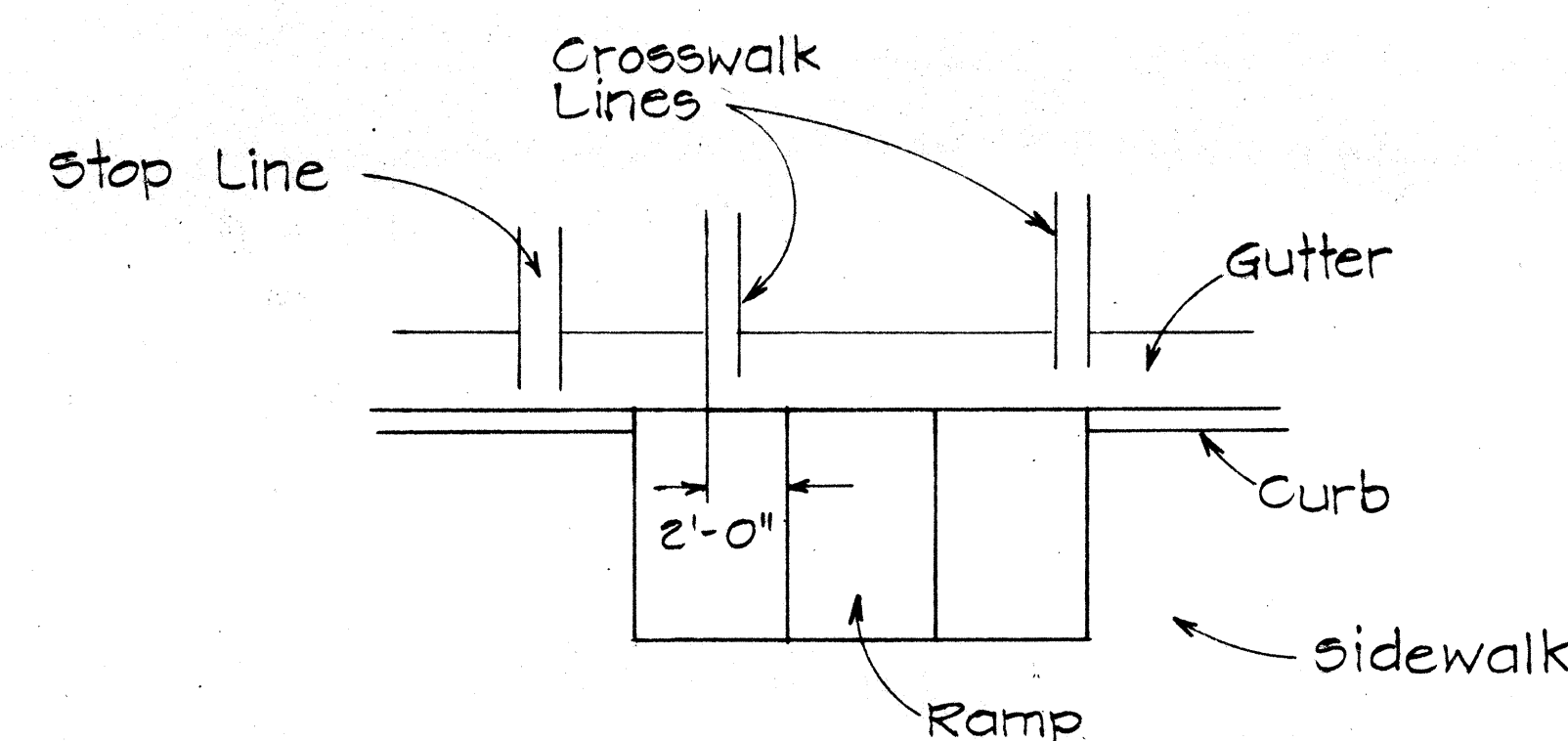
FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-11-1(96)13	1981	24	112



SECTION "A-A"

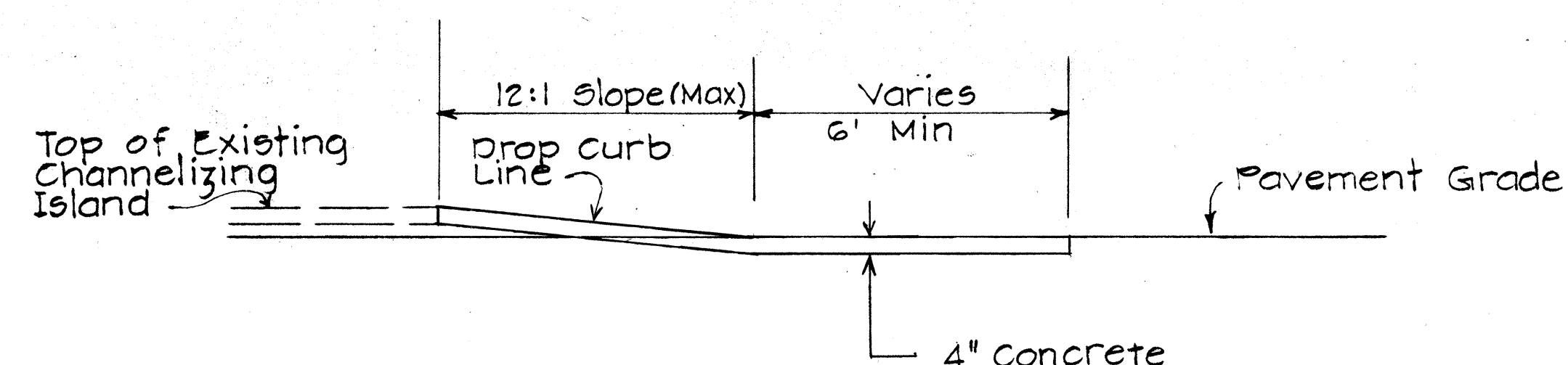
Use at Median Nose Crossings
Scale: 1"=5'

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



TYPICAL INSTALLATION AT CROSSWALKS

Scale: 1"=5'



SECTION "B-B"

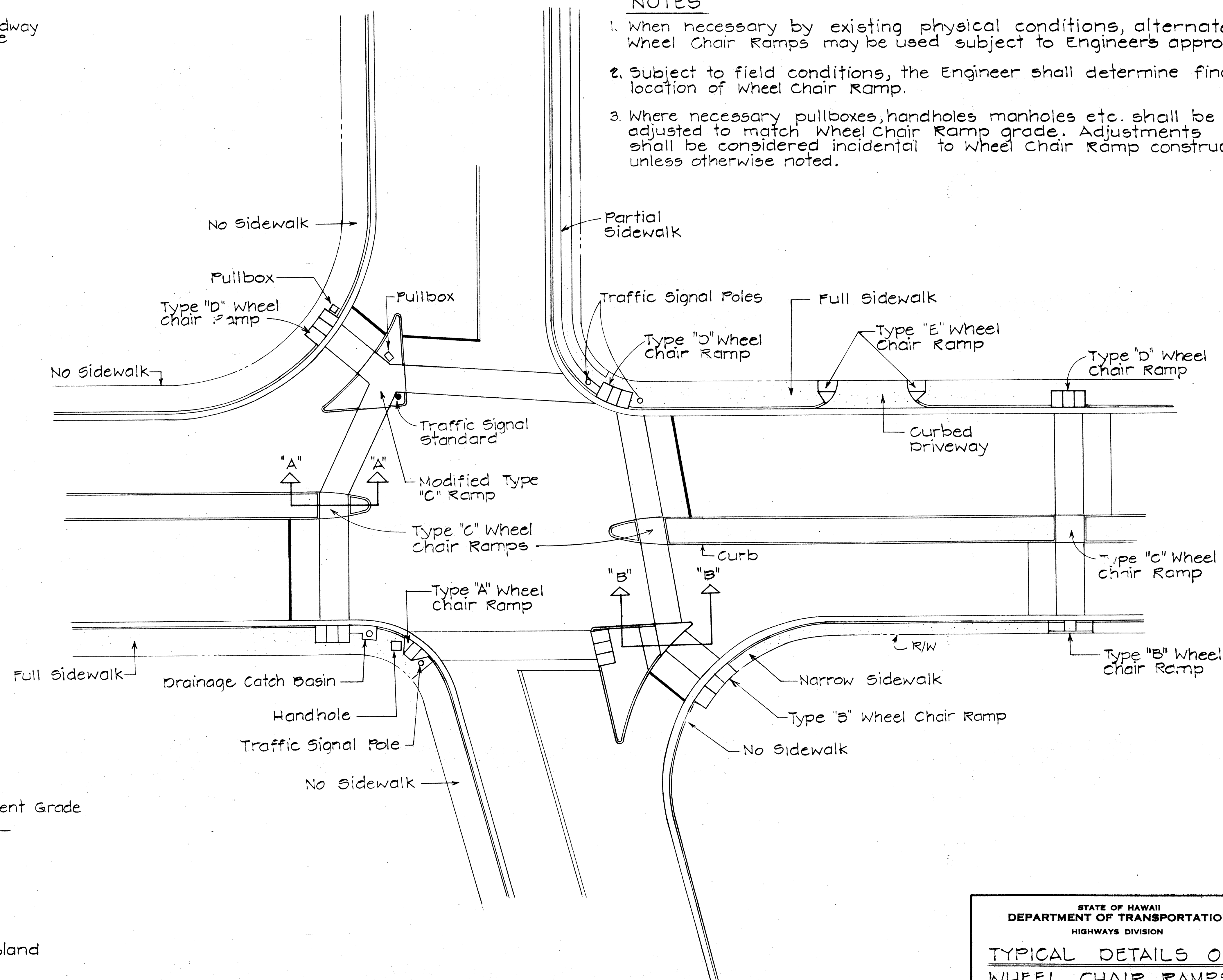
TYPE "B" MODIFIED WHEEL CHAIR RAMP

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 Engineers 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'

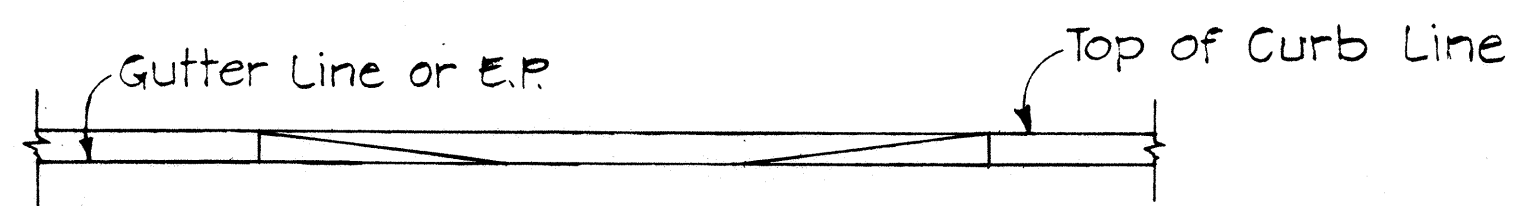
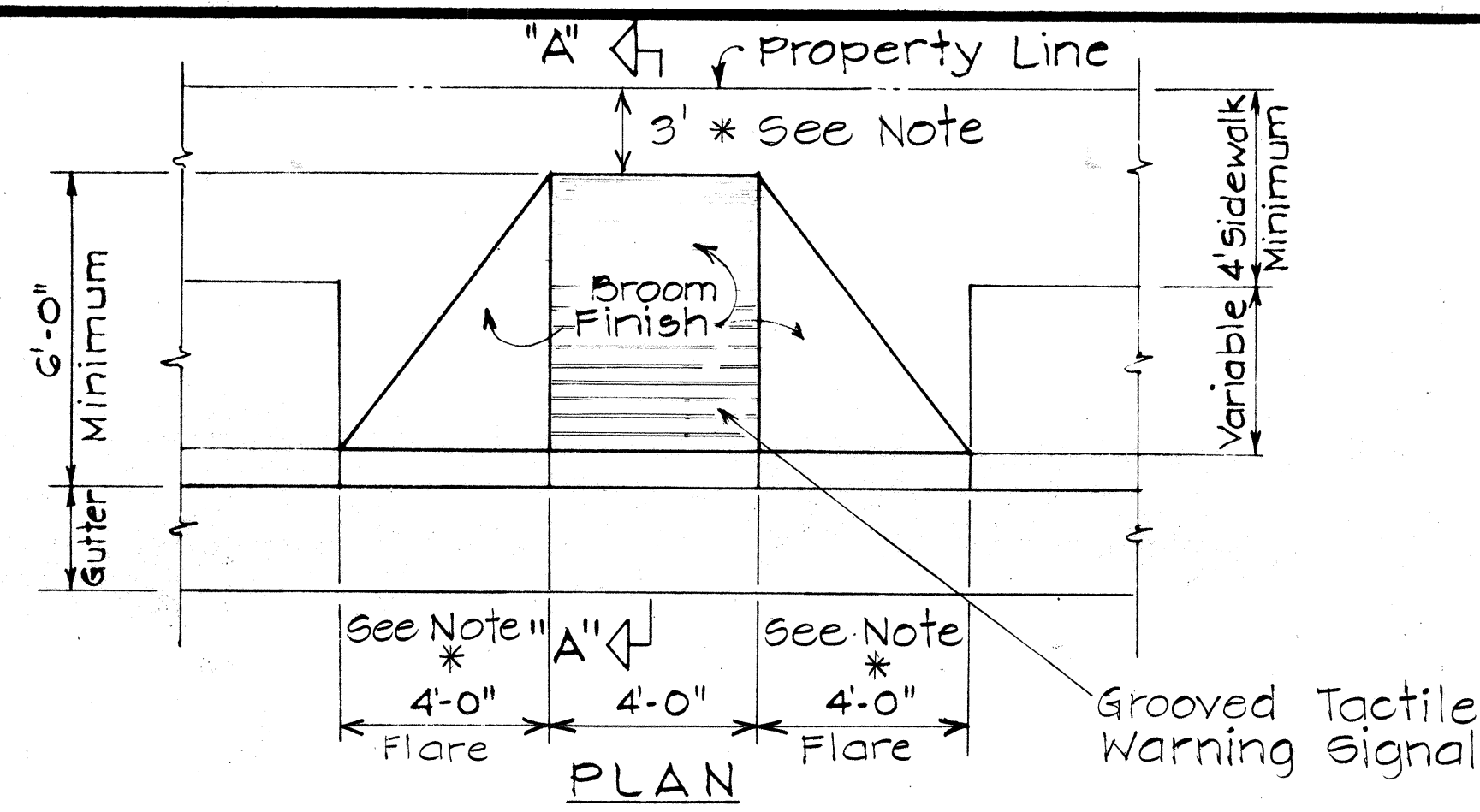
STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

TYPICAL DETAILS OF WHEEL CHAIR RAMPS

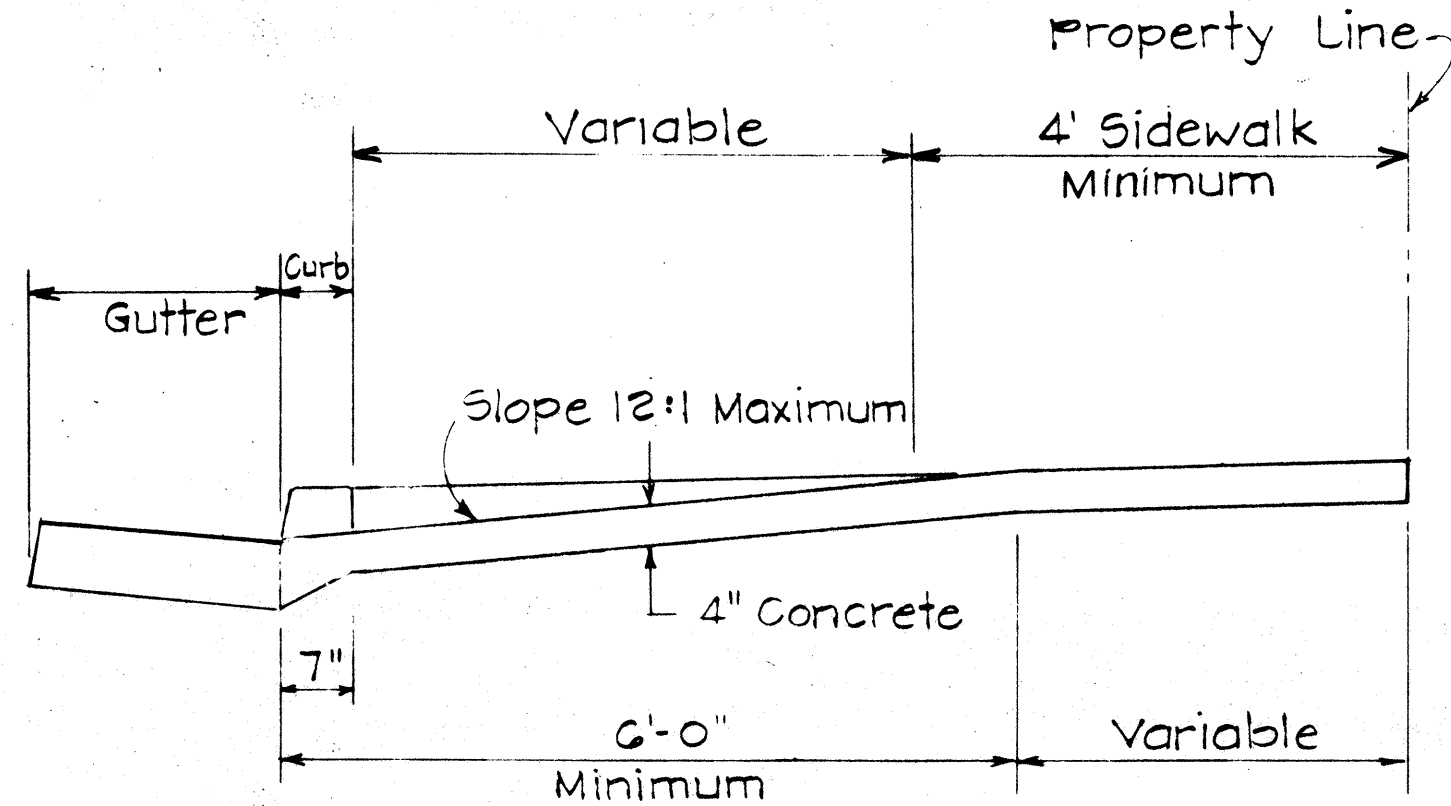
Scale: As Shown May, 1978

SHEET NO. 2 OF 7 SHEETS

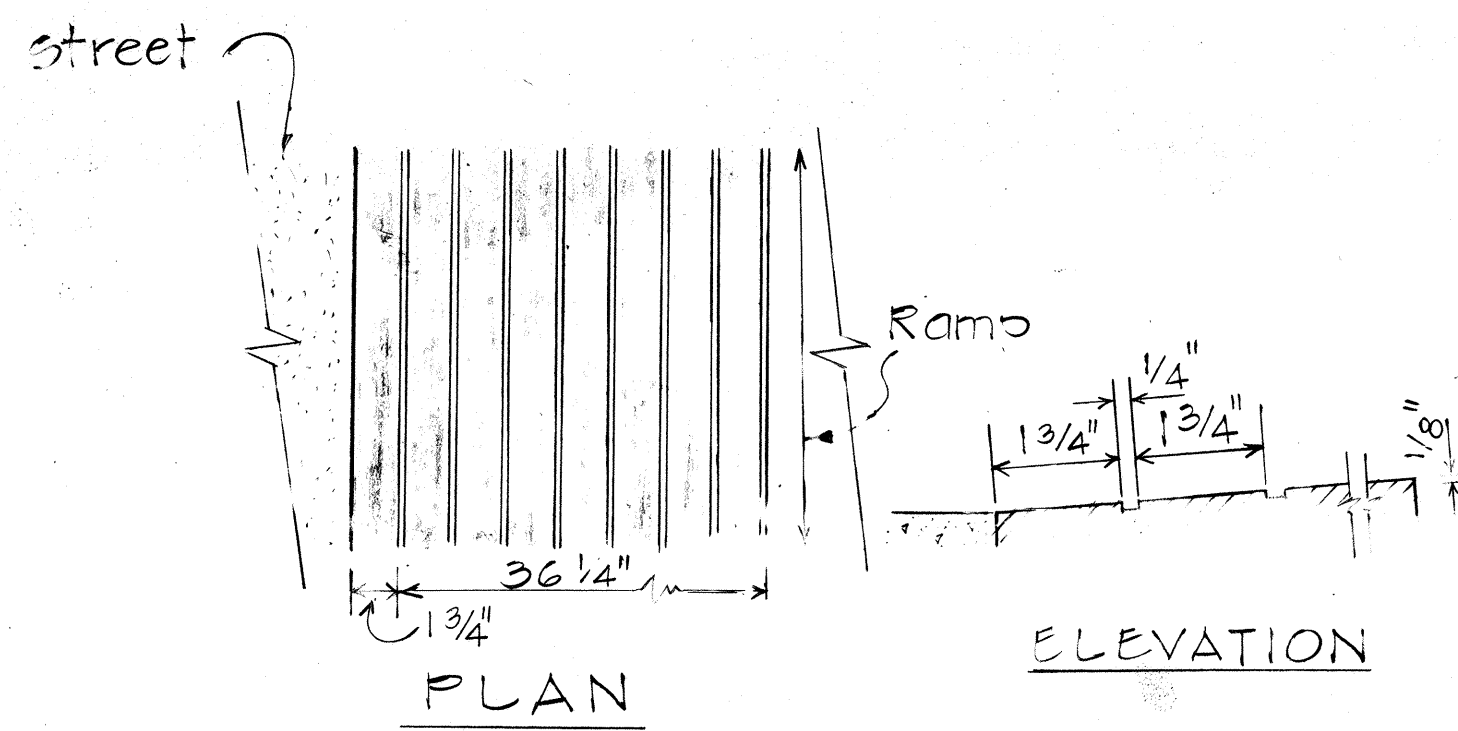
FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	7-HI-1(20)/13	1981	25	112



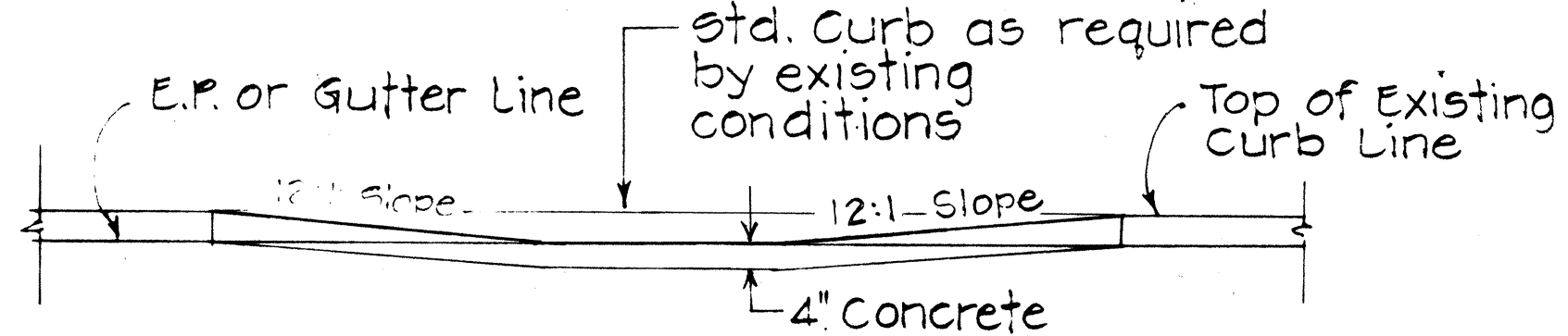
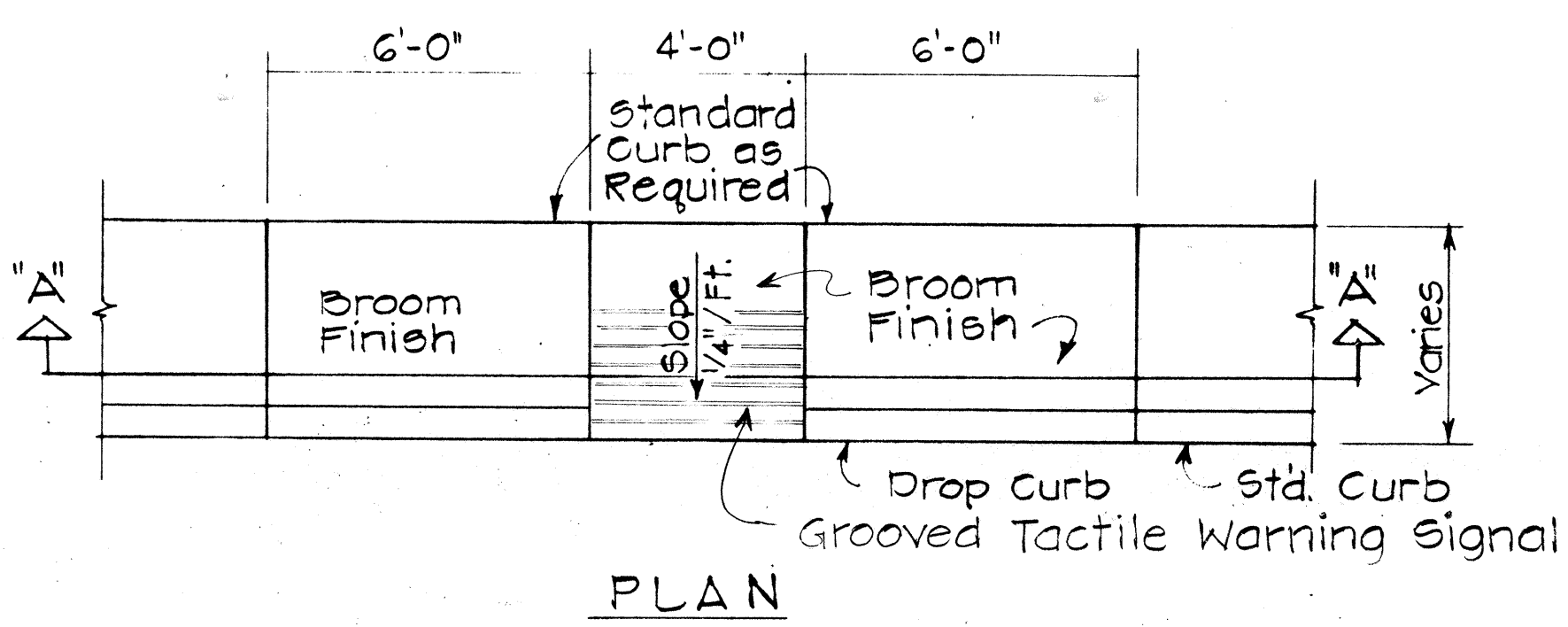
* Where dimension is less than 3', Flare width shall be 5'



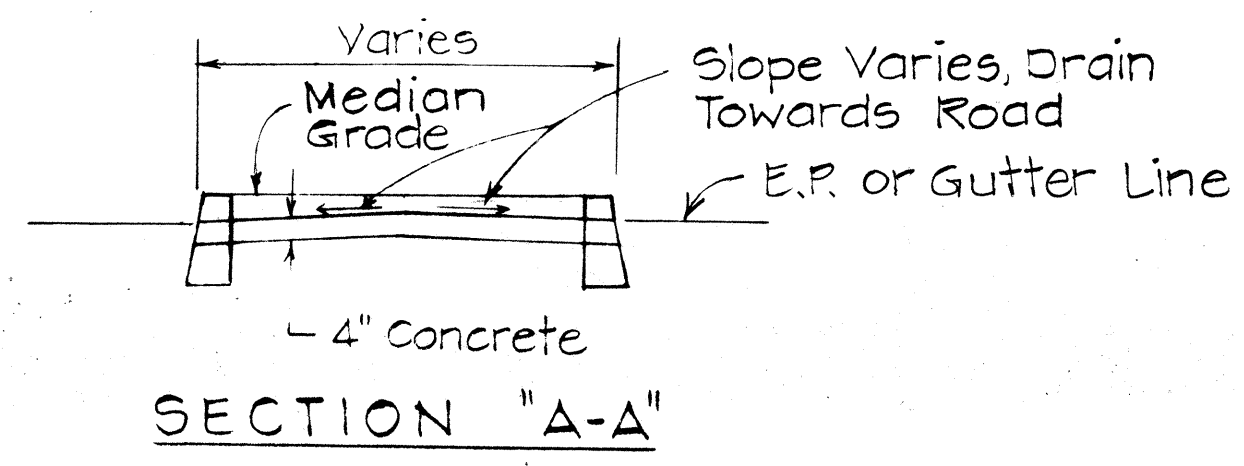
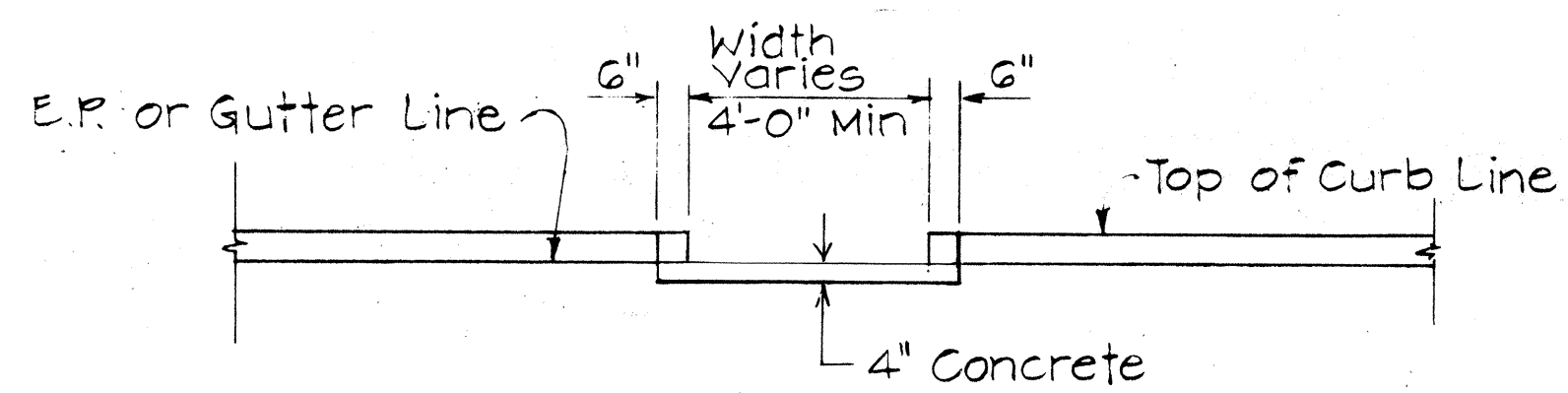
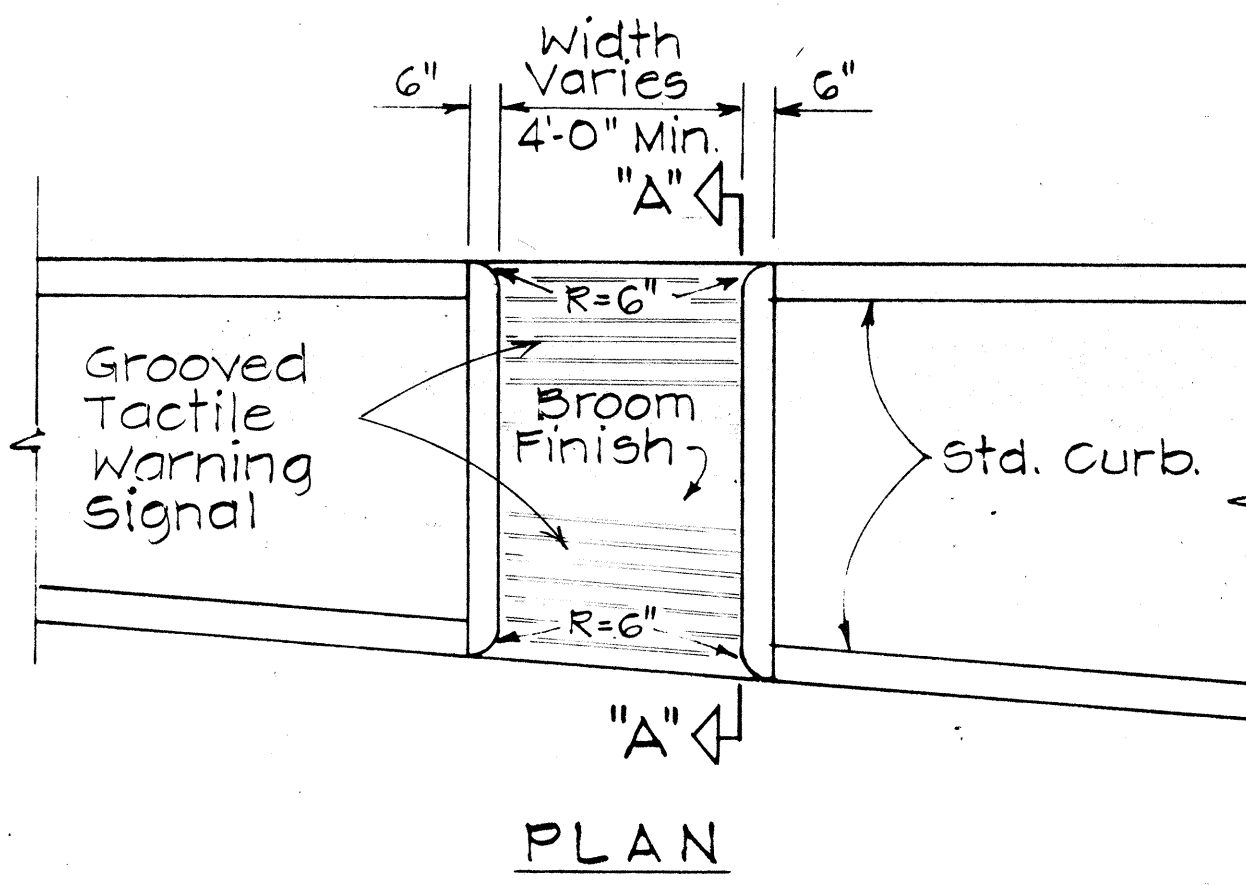
WHEELCHAIR RAMP - TYPE "A"
USE WHERE OBSTRUCTIONS EXIST



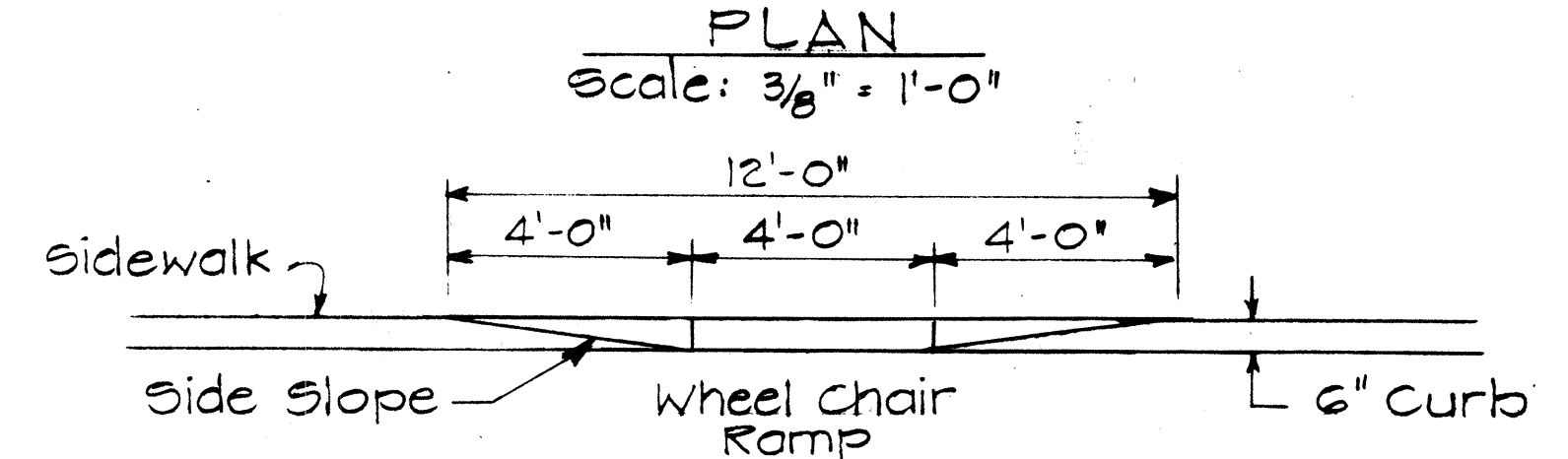
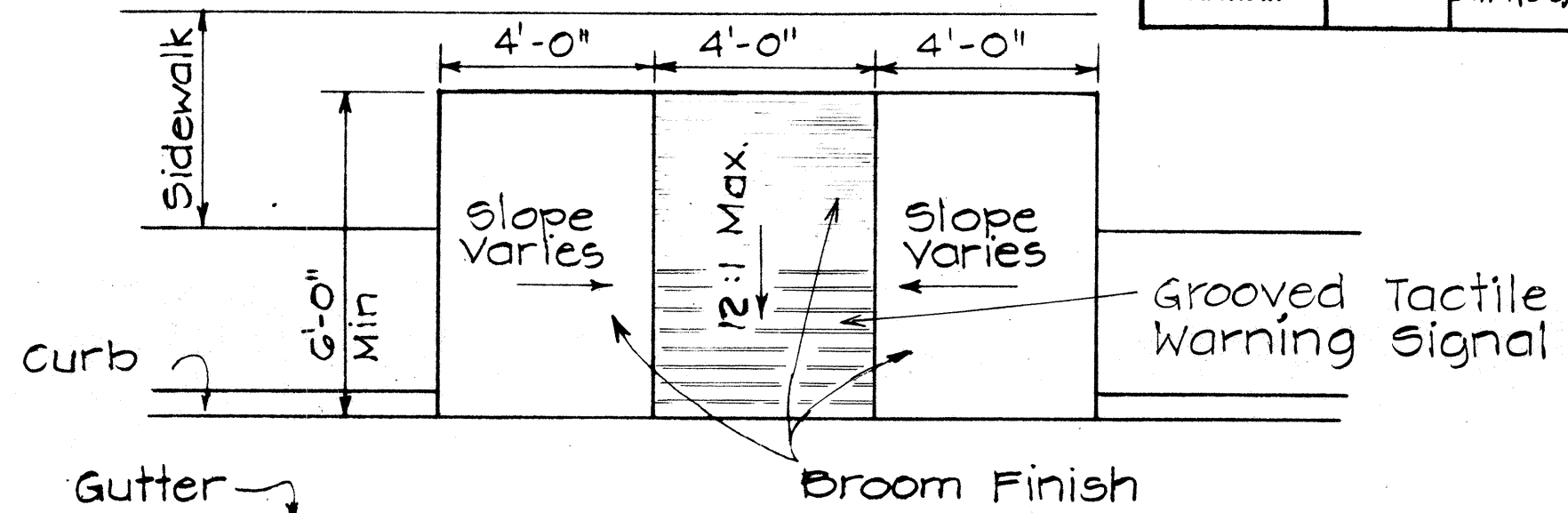
GROOVED TACTILE WARNING SIGNAL



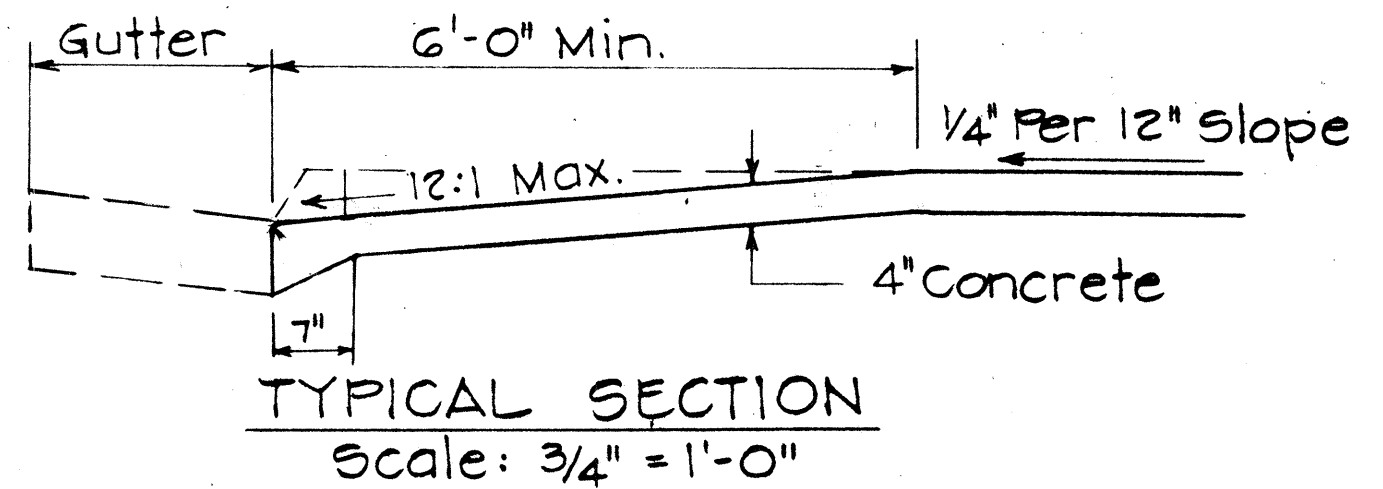
WHEELCHAIR RAMP - TYPE "B"
USE AT SIDEWALKS WITH LESS THAN 6'-0" WIDTH



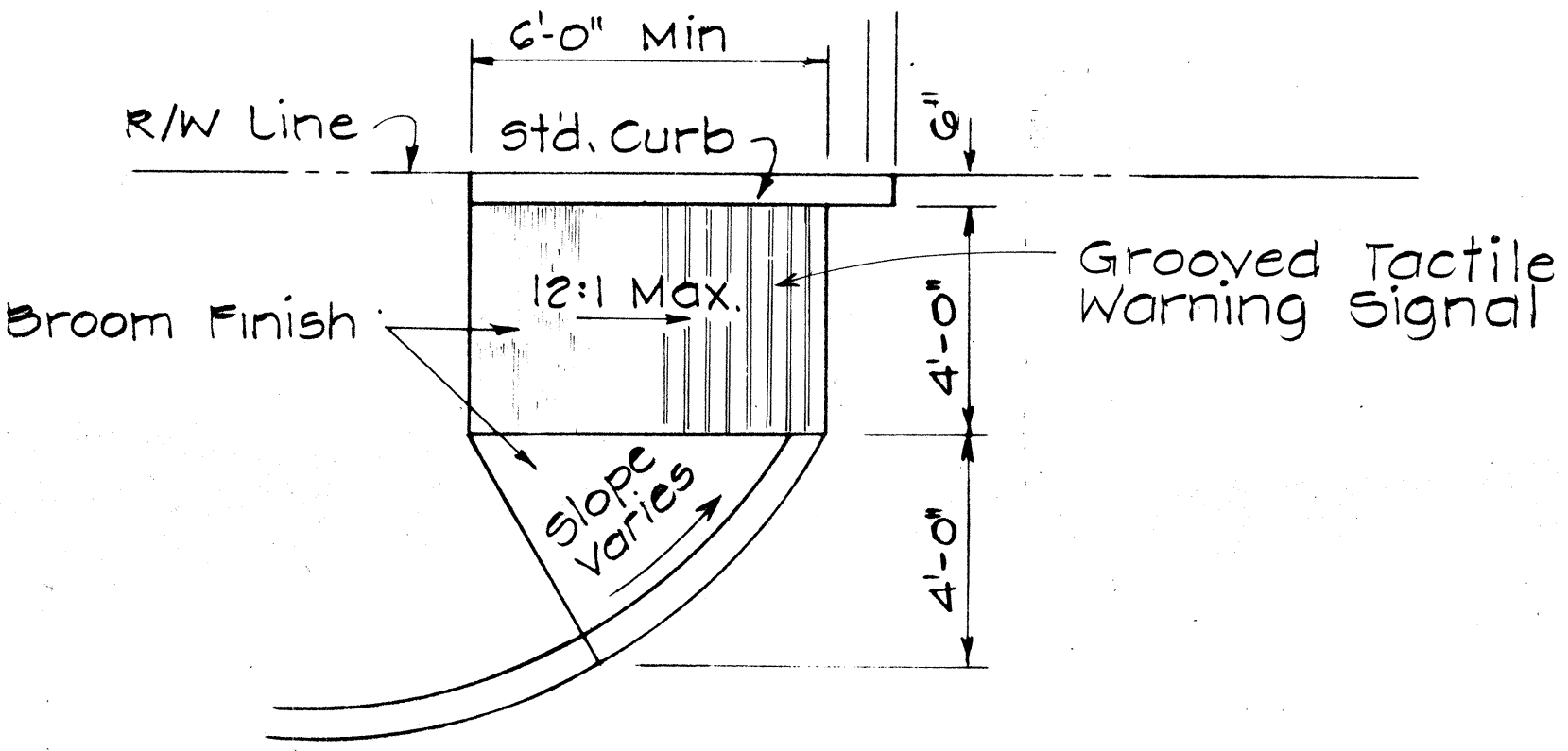
WHEELCHAIR RAMP - TYPE "C"
USE AT MEDIAN CROSSINGS, ISLANDS



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



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



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

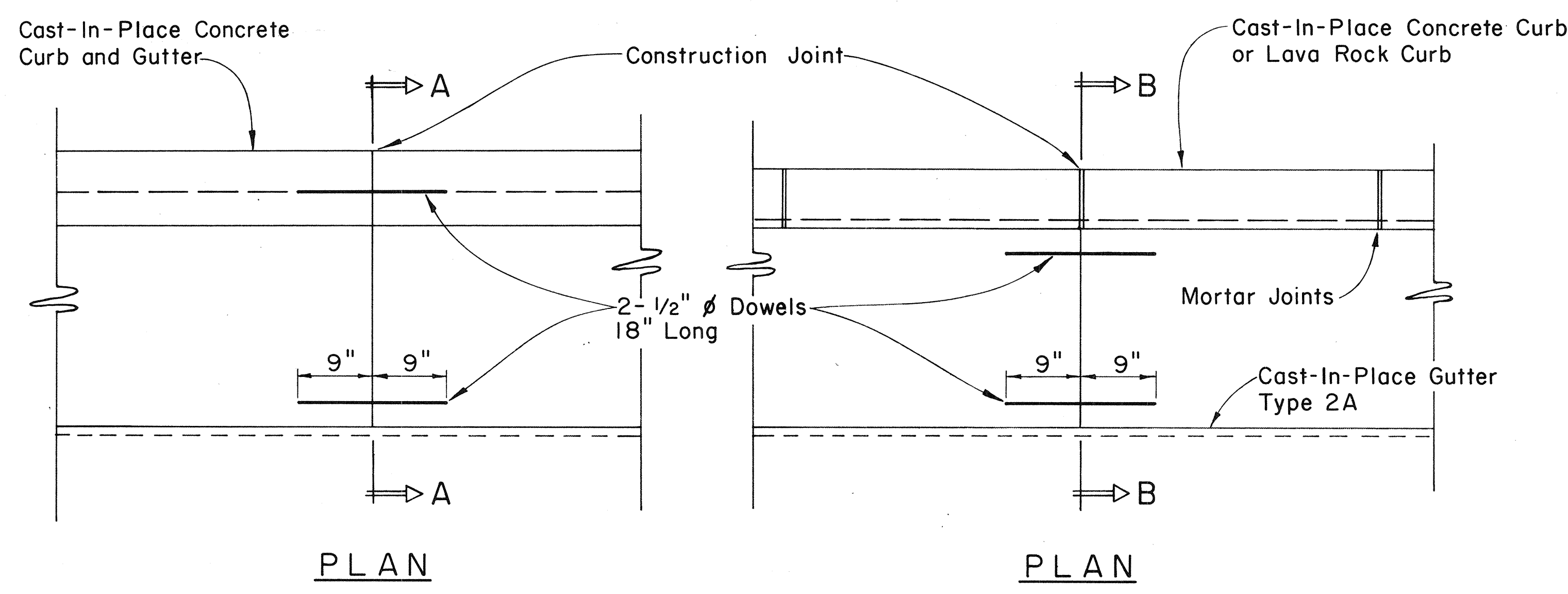
STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

TYPICAL DETAILS OF
WHEEL CHAIR RAMPS

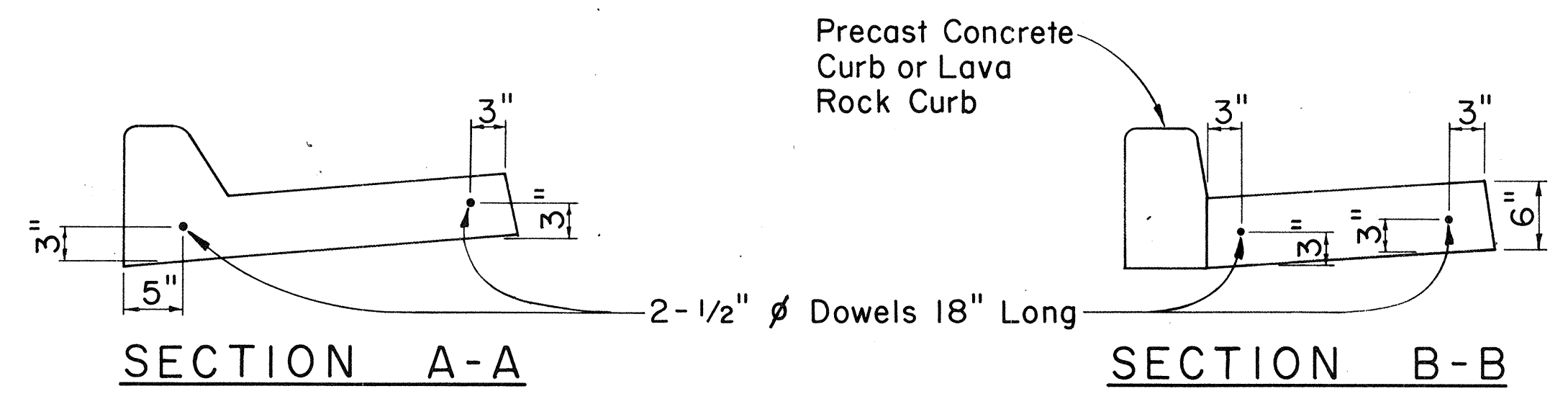
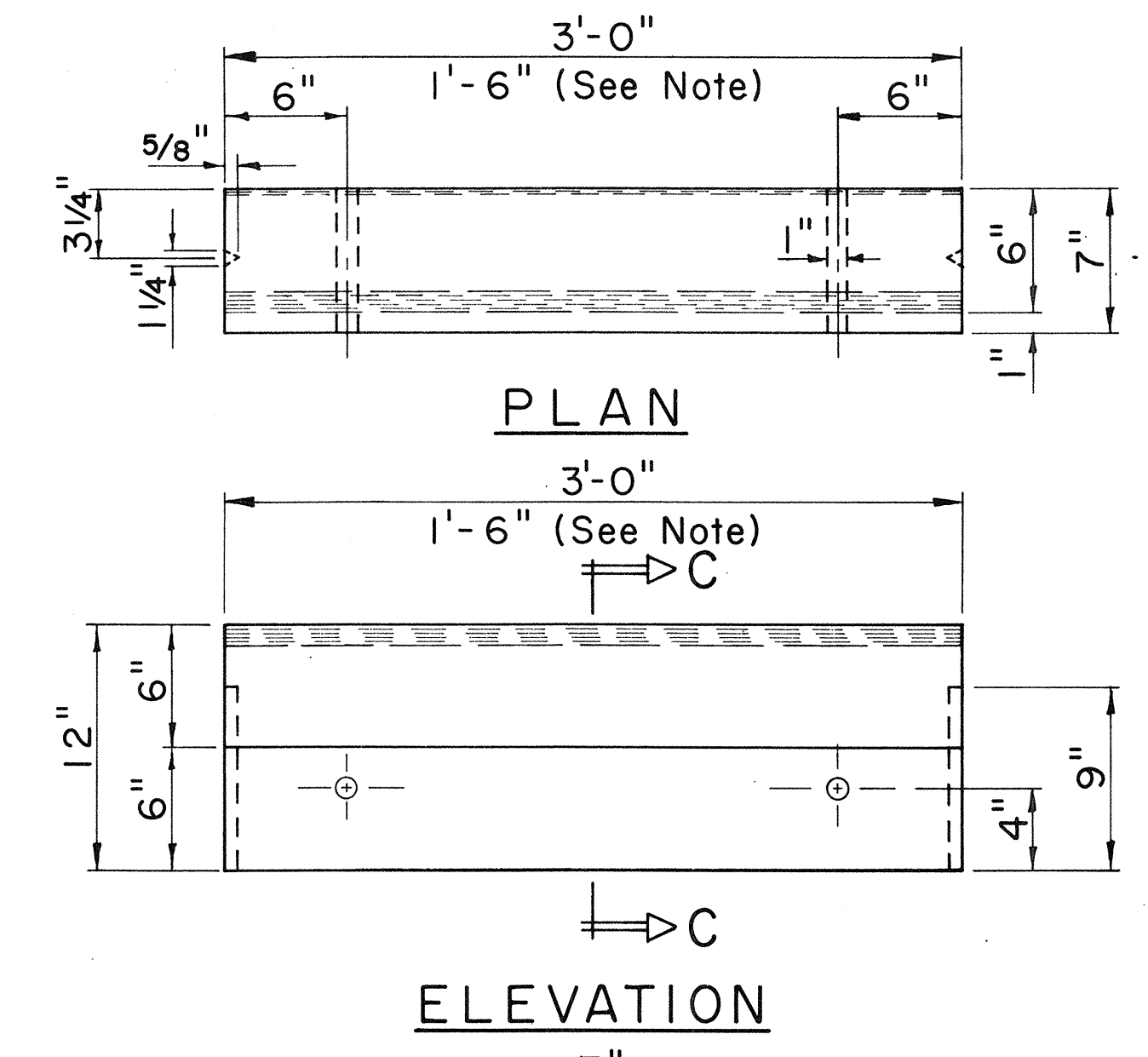
Scale: As Shown May, 1978

SHEET NO. 3 OF 7 SHEETS

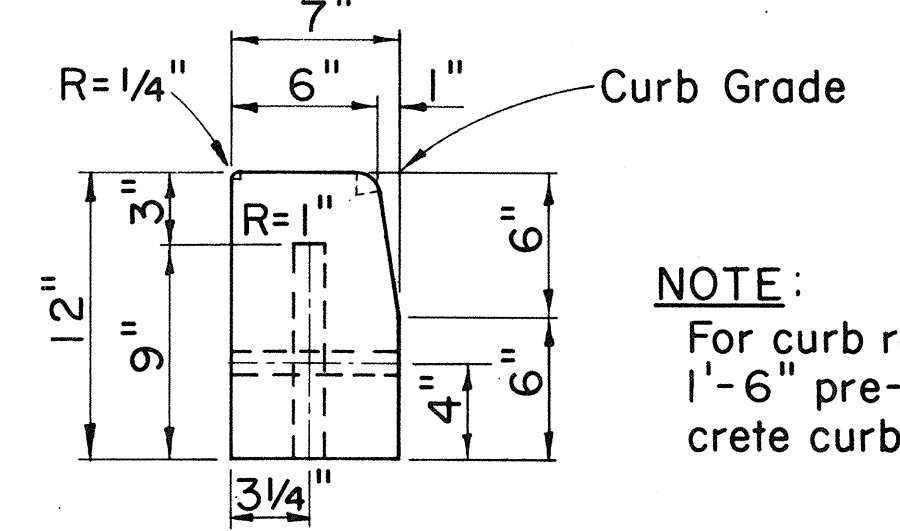
FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-HI-1(96)13	1981	20	112



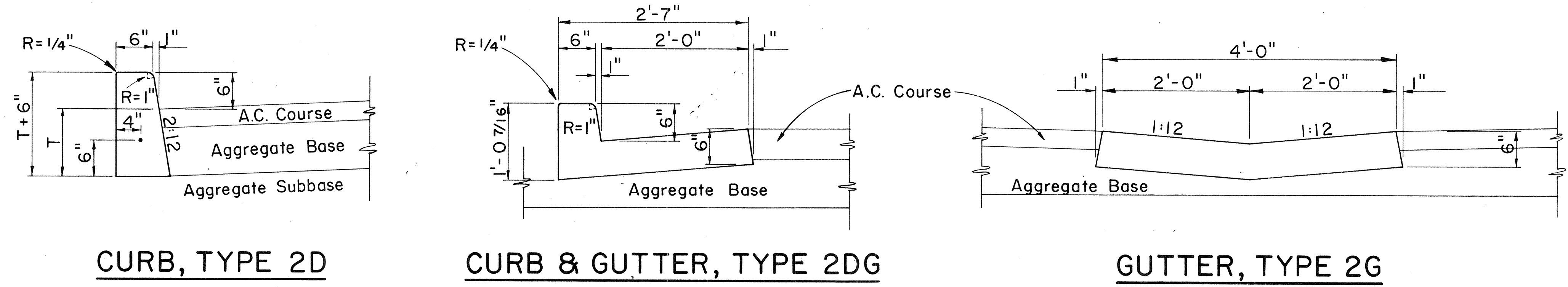
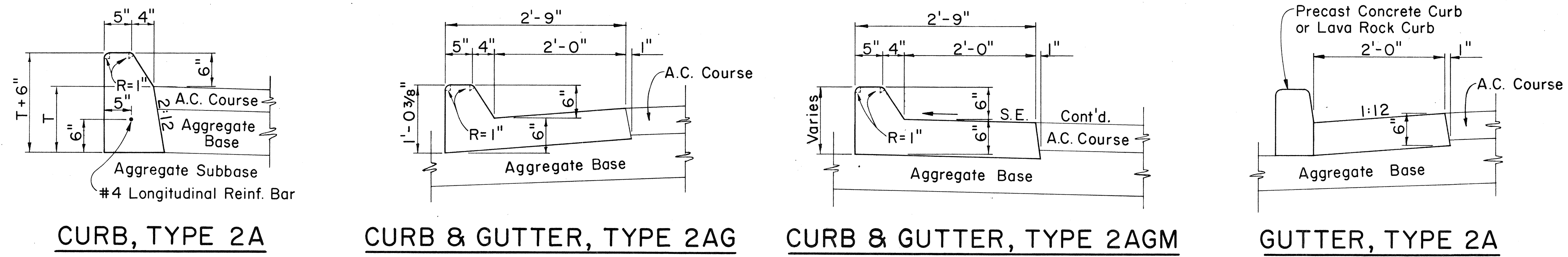
CURB, TYPE 6
BITUMINOUS CURB
 Scale: 1 1/2" = 1'-0"



CAST-IN-PLACE CURB & GUTTER
CAST-IN-PLACE GUTTER
CONSTRUCTION JOINT DETAIL
 Scale: 1" = 1'-0"



CURB, TYPE 3D
PRE-CAST CONC. CURB
 Scale: 1 1/2" = 1'-0"



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

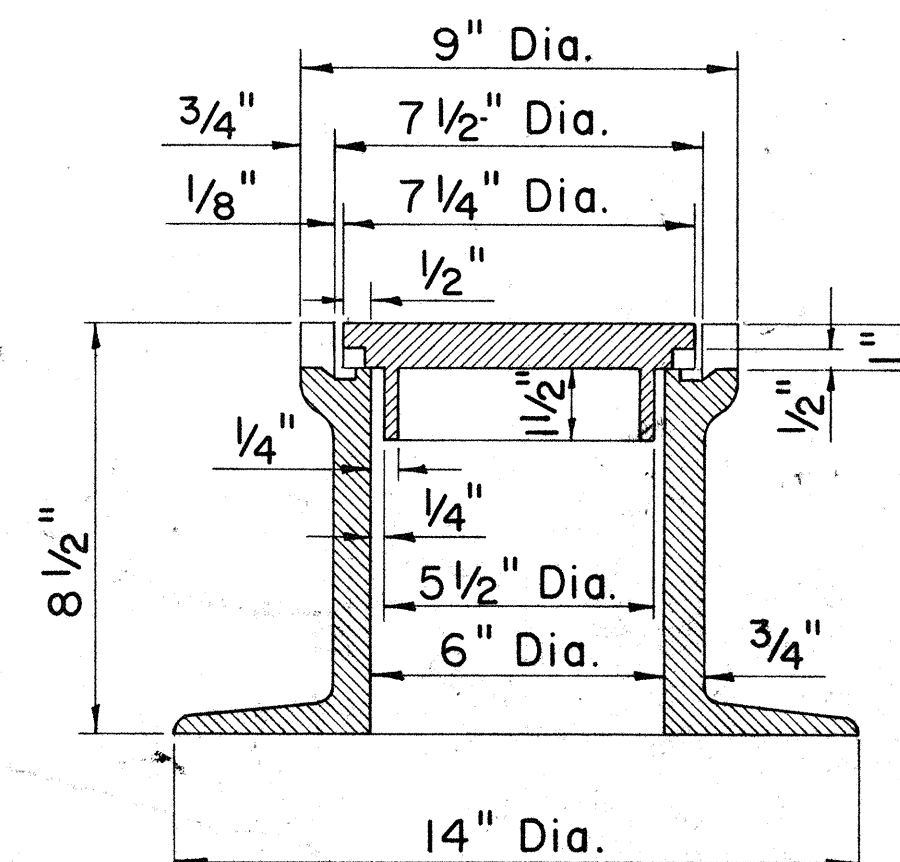
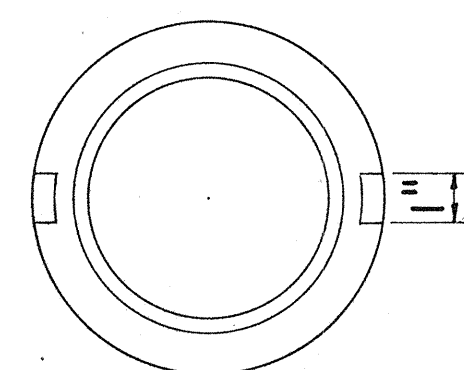
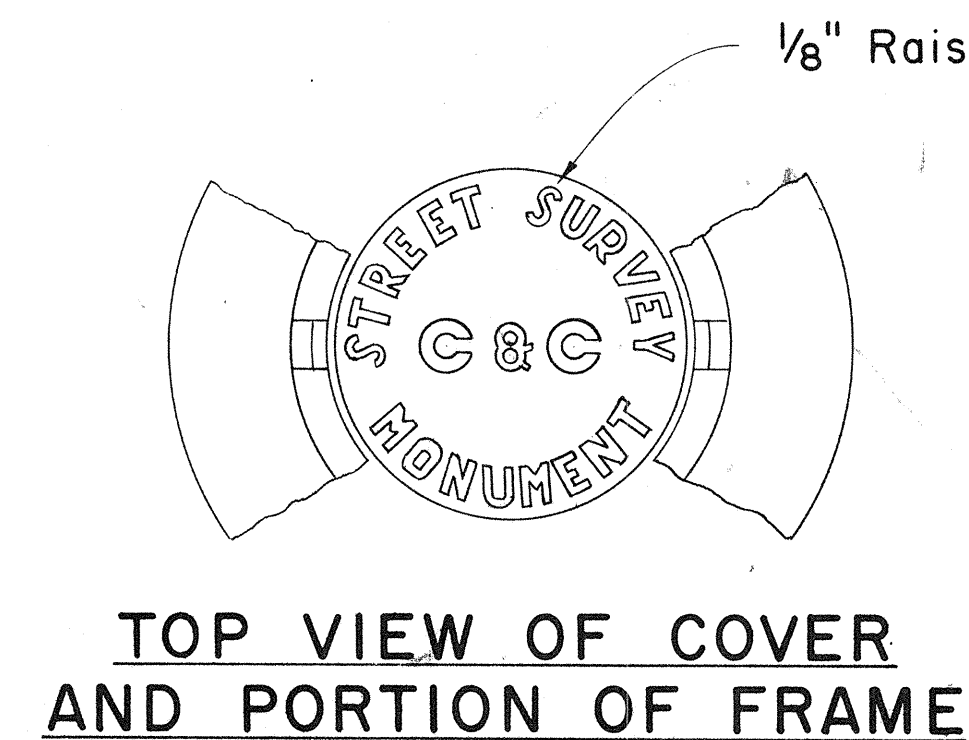
STANDARD DETAILS
TYPICAL DETAILS OF CURB
AND/OR GUTTERS

Scale: As Shown

SHEET No. 4 OF 7 SHEETS DD 609.1

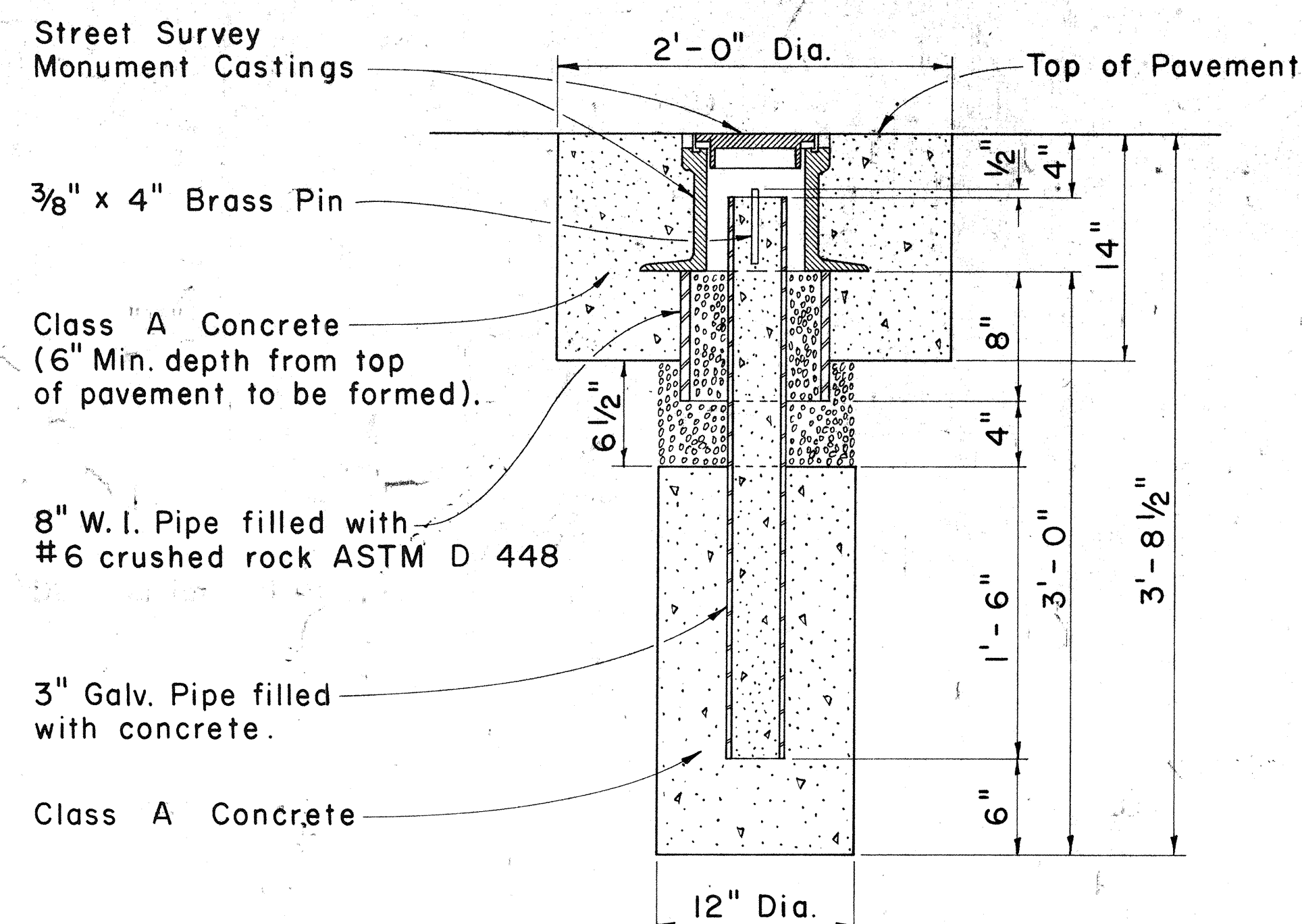
ORIGINAL
 PLAN
 DRAWN BY
 CHECKED BY
 DATE
 SURVEY PLOTTED BY
 DESIGNED BY
 QUANTITIES BY
 NOTE BOOK
 CHECKED BY
 No.

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-HI-1(96)13	1981	27	112



STREET SURVEY MONUMENT CASTINGS

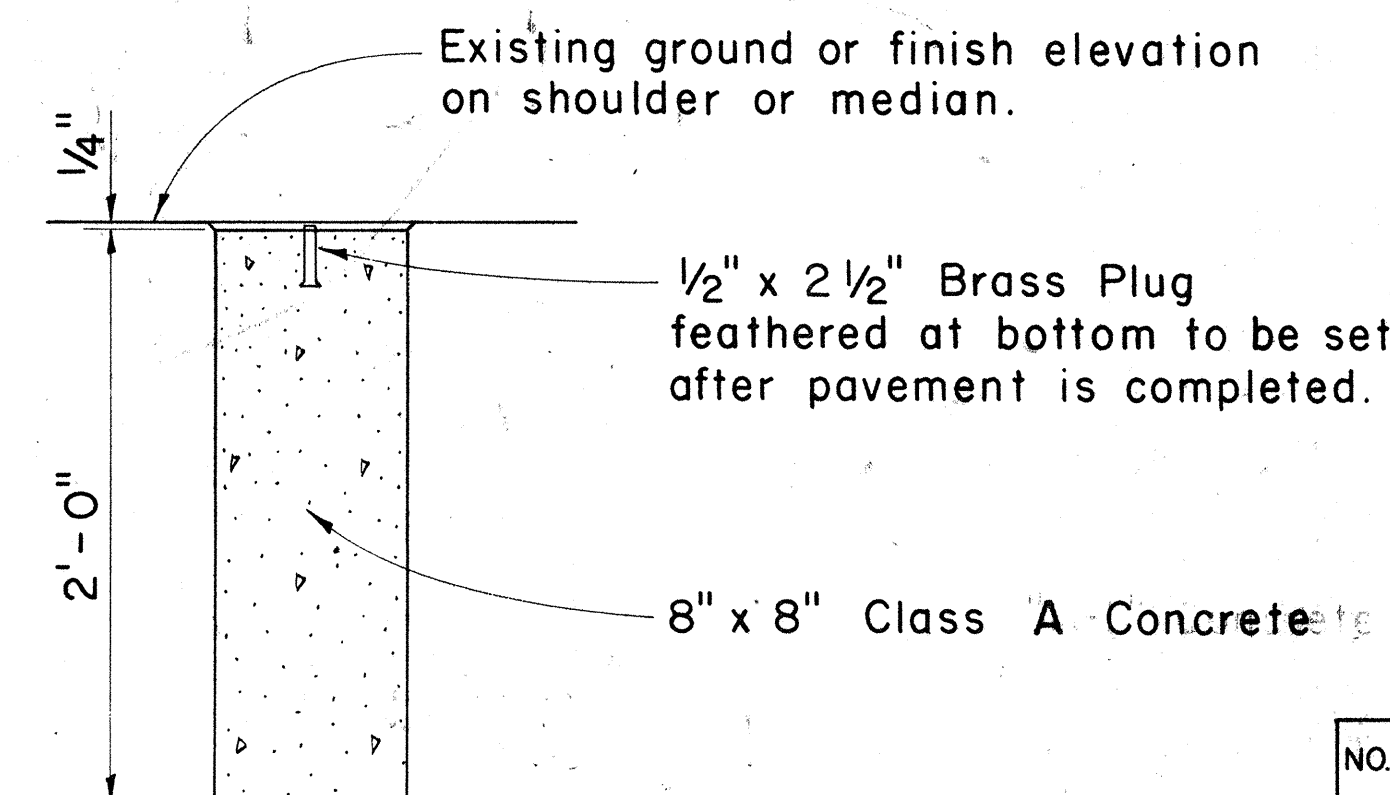
Scale: 3" = 1'-0"



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 CENTERLINE AND REFERENCE SURVEY MONUMENT

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

APPROVAL RECOMMENDED:
M. J. J. J. 12-1-69
HIGHWAY DESIGN ENGINEER DATE

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

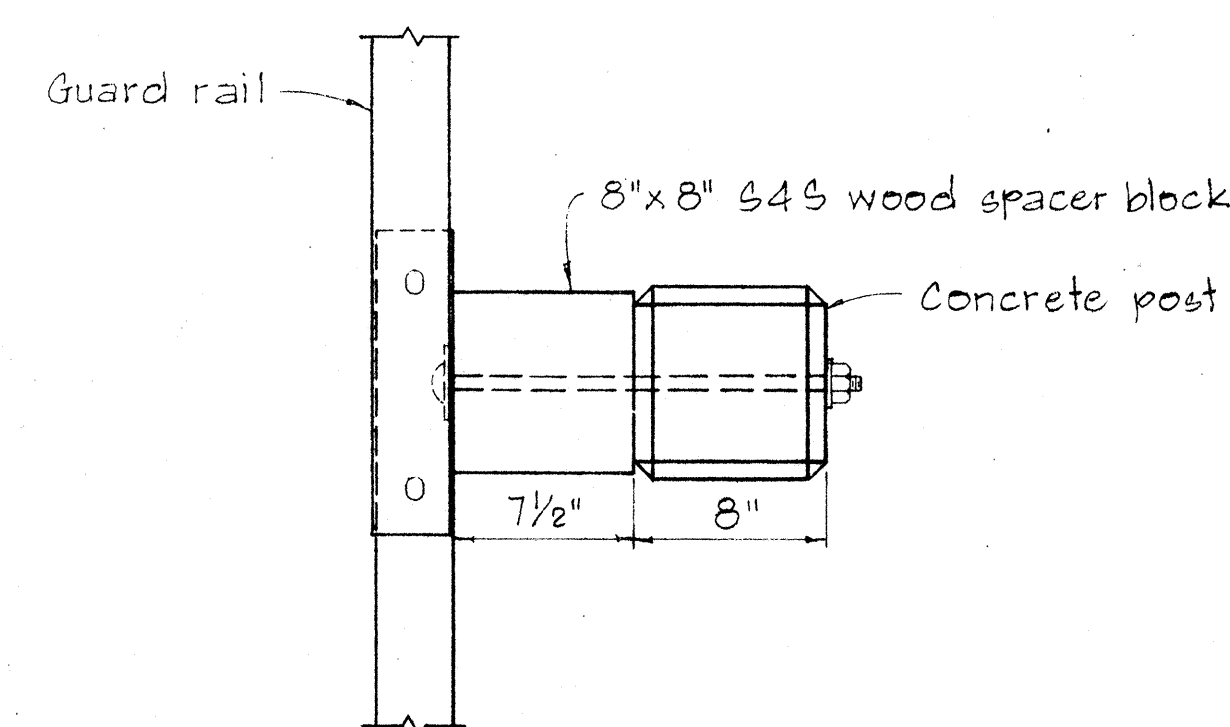
NO.	REVISION	APPROVED BY	DATE

STATE OF HAWAII DEPARTMENT OF TRANSPORTATION HIGHWAYS DIVISION	
STANDARD DETAILS	
CENTERLINE, REFERENCE SURVEY AND C & C STREET SURVEY MONUMENTS	
Scale: As Shown	

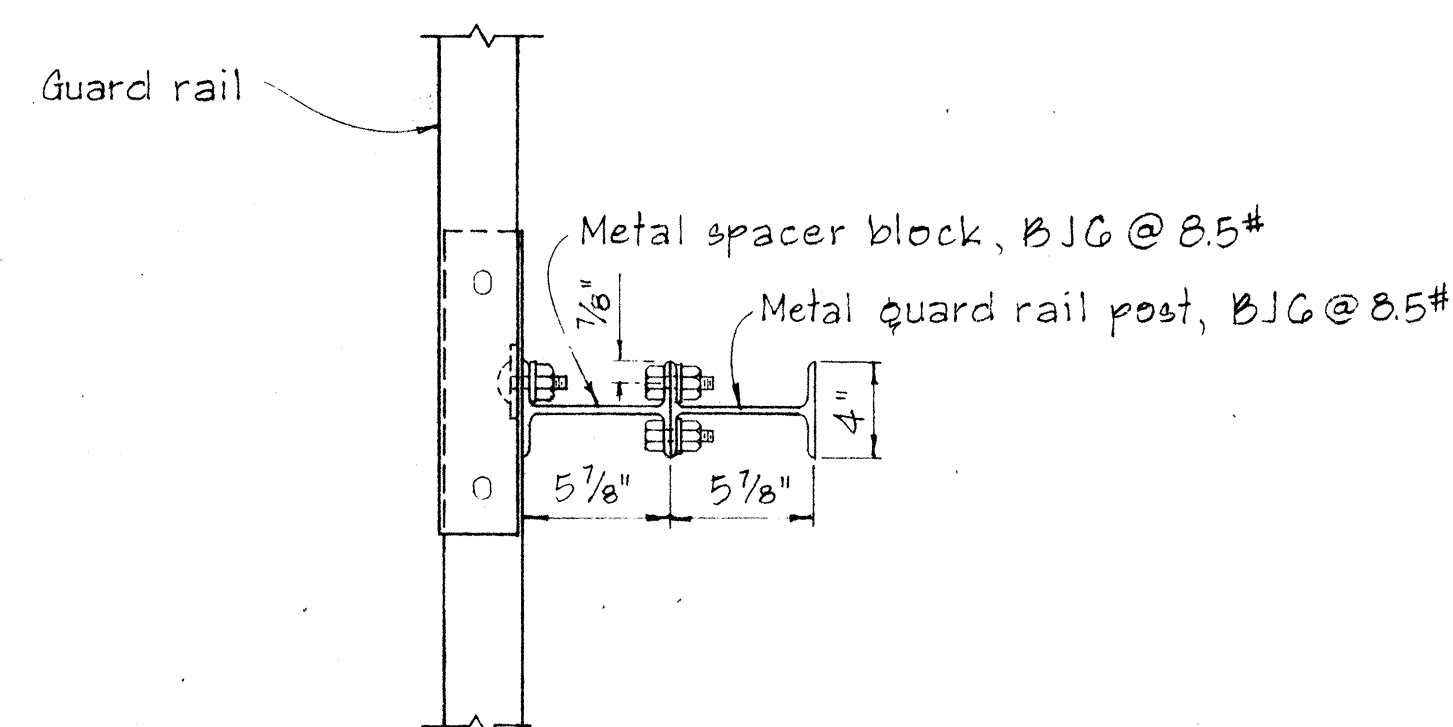
SHEET No. 5 OF 7 SHEETS DD 613.1

PLAN SHT. NOS. 28 TO 32 HAS BEEN DELETED

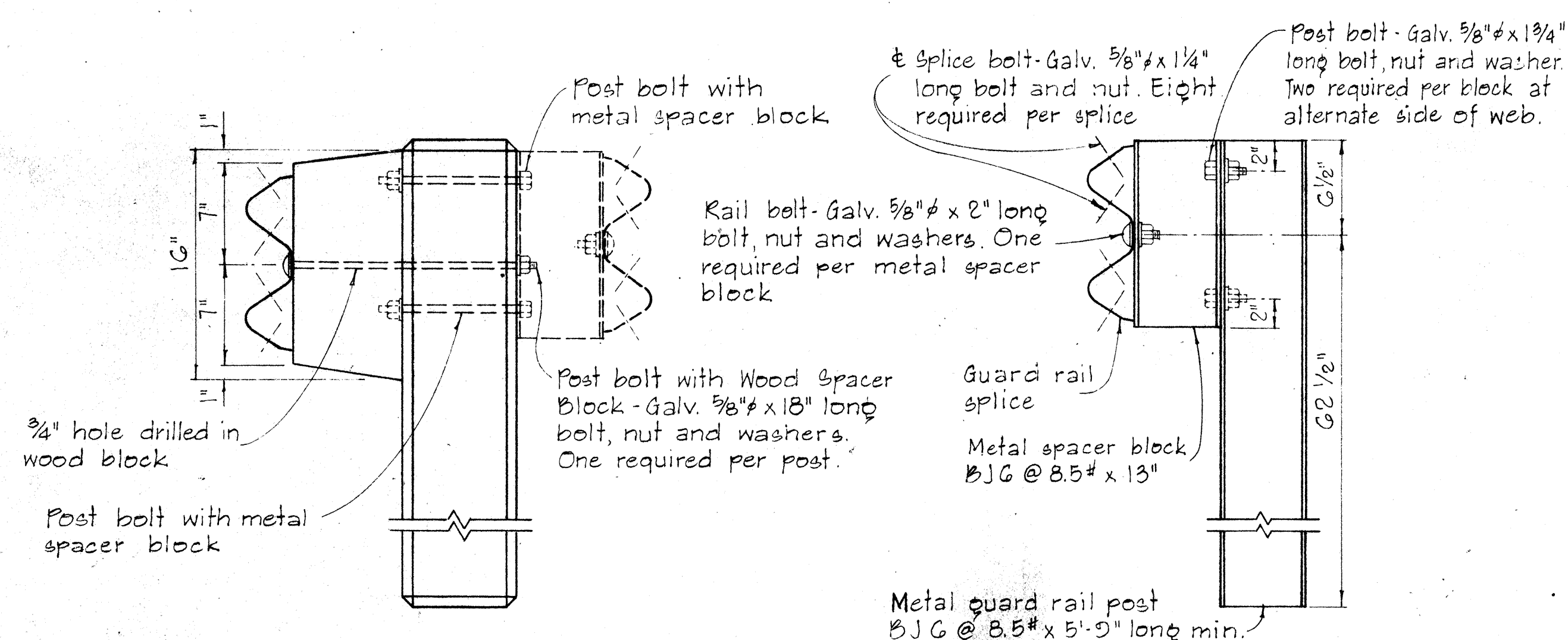
FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-HI-1(96):13	1981	33	112



PLAN

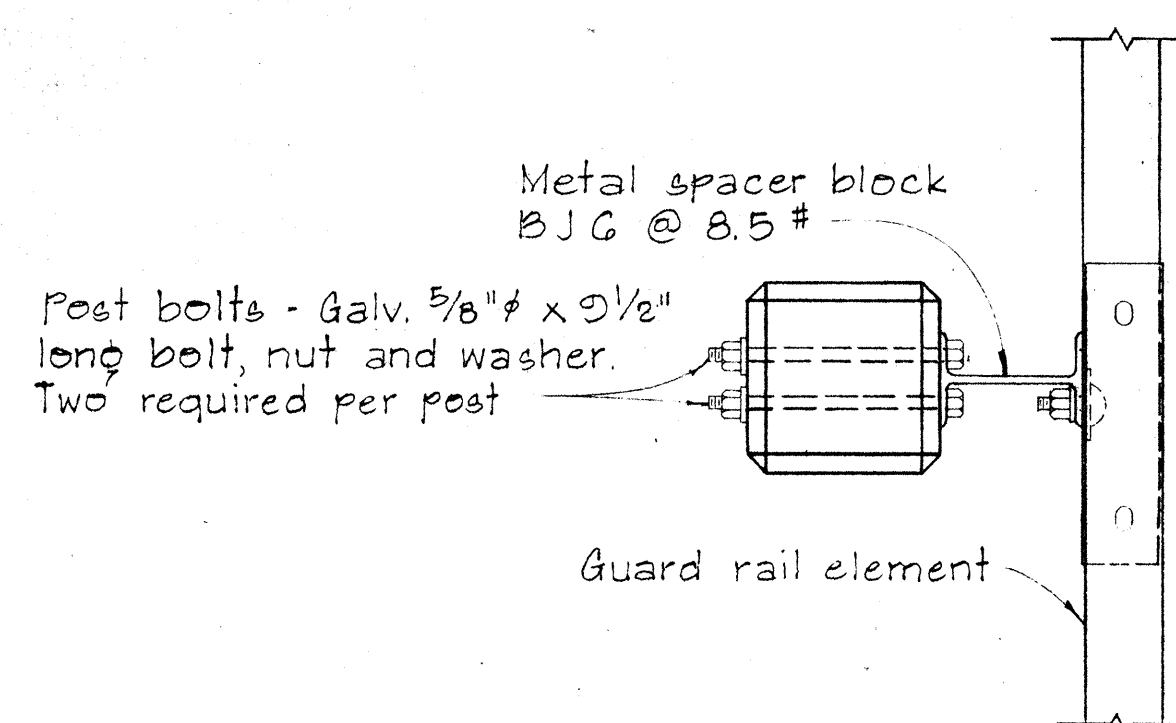


PLAN



SINGLE METAL GUARD RAIL ON METAL POST
WITH METAL SPACER BLOCK

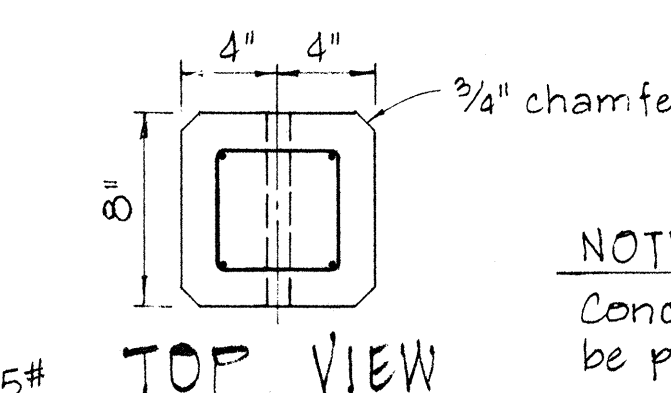
SCALE: $1\frac{1}{2}'' = 1'-0''$



PLAN

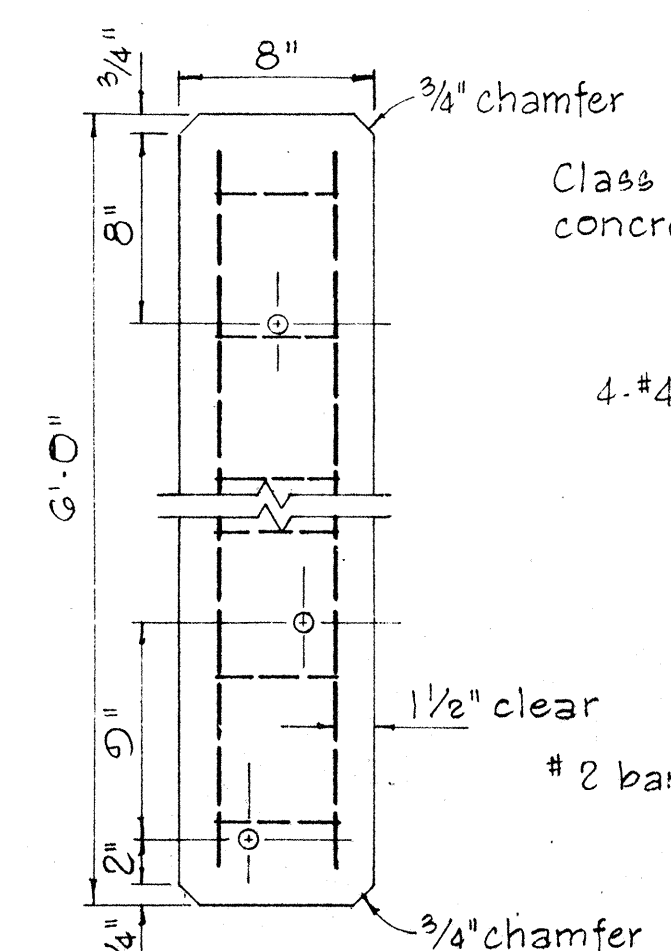
SINGLE METAL GUARD RAIL ON PRECAST
CONCRETE POST WITH WOOD OR METAL SPACER BLOCK.

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

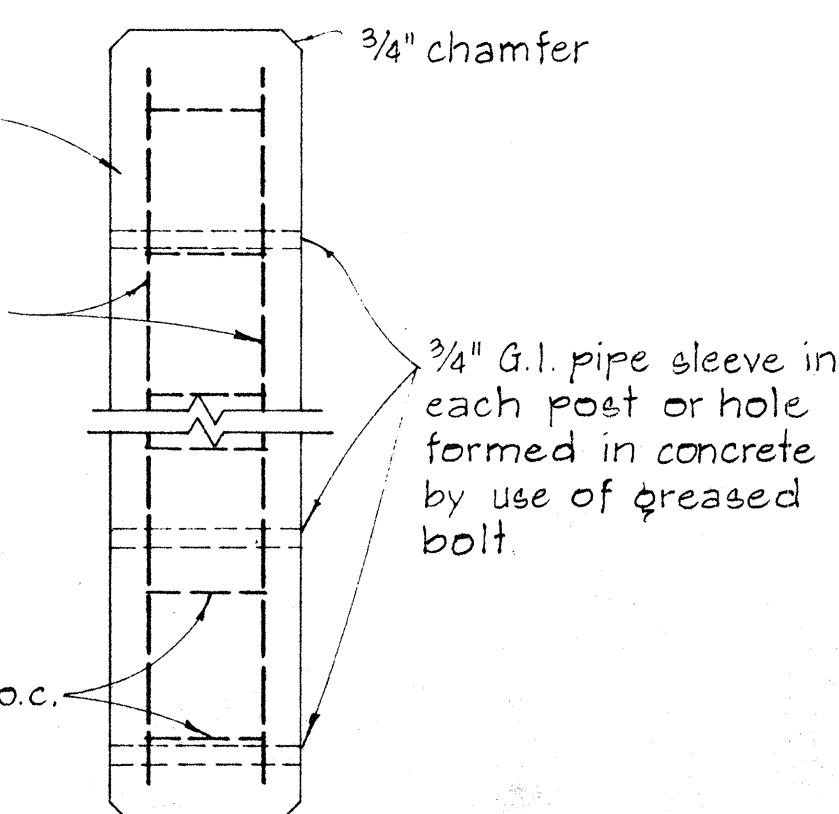


TOP VIEW

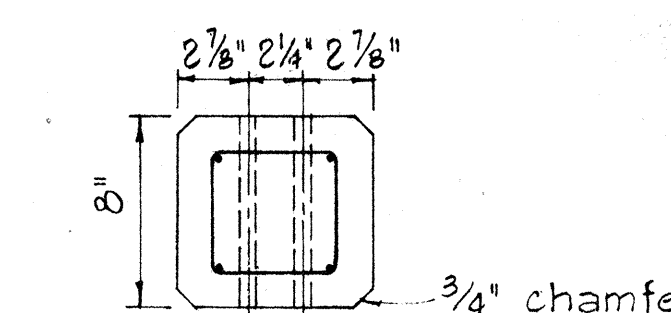
NOTE:
Concrete post shall be precast



FRONT VIEW



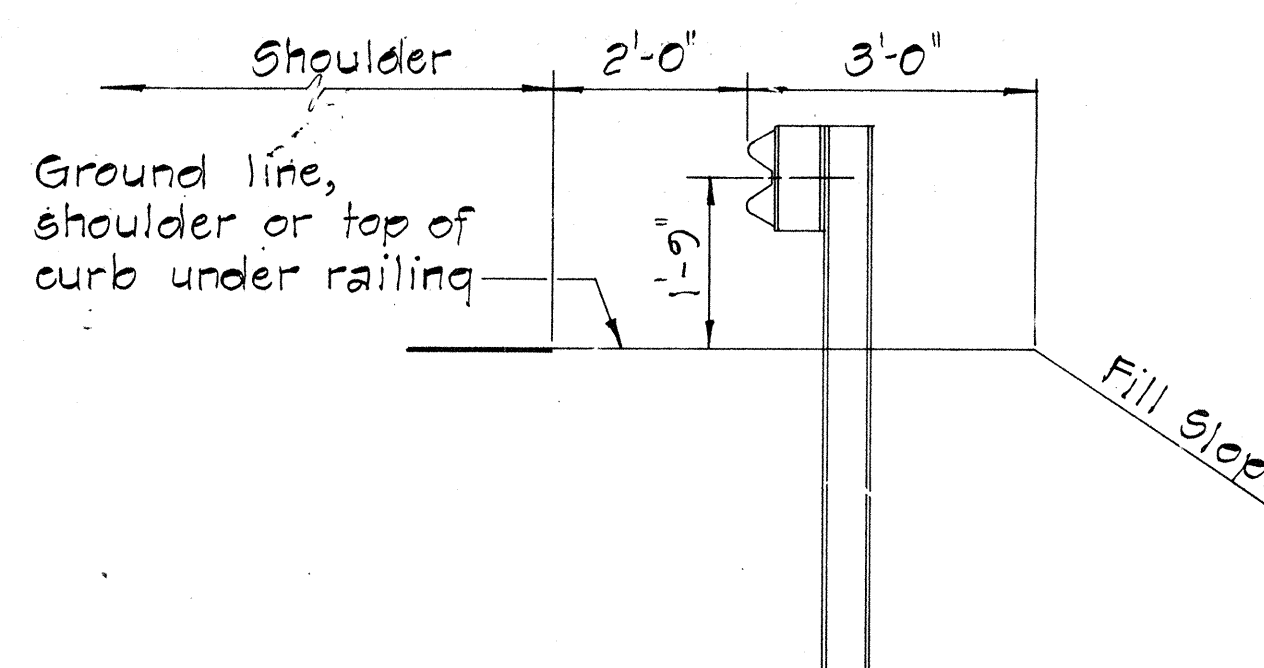
SIDE VIEW



BOTTOM VIEW

DETAIL OF CONCRETE POST

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



AT SHOULDER SECTION

TYPICAL METAL GUARD
RAIL DETAIL

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

APPROVAL RECOMMENDED:

Euchi Tanaka
TRAFFIC ENGINEER

12/29/69
DATE

APPROVED

Herbert S. Zelnick
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. 6 OF 7 SHEETS DT 50C

PLAN SHT. NOS. 28 TO 32 HAS BEEN DELETED

35

