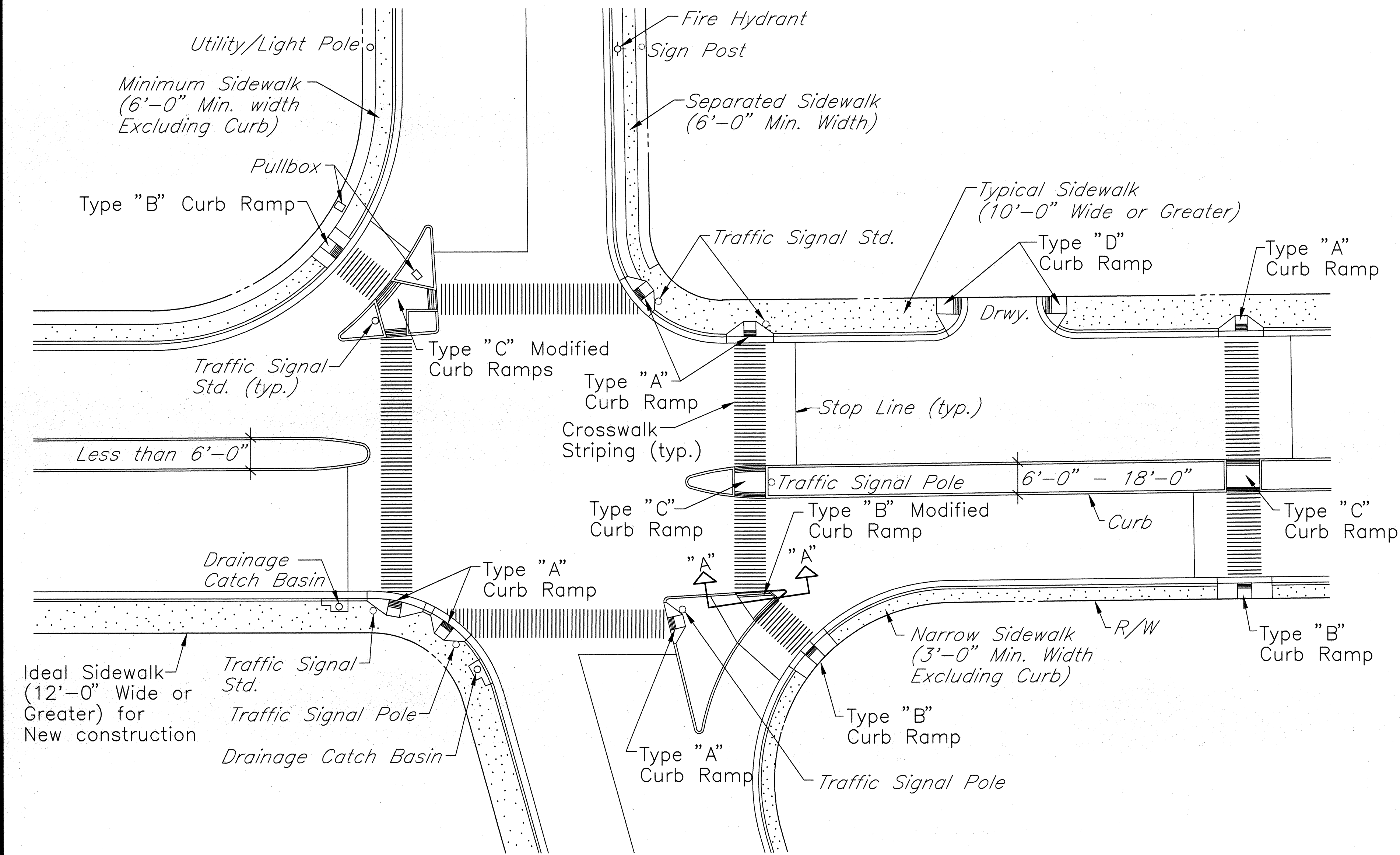


FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	STP-056-1(39)	1998	26	28

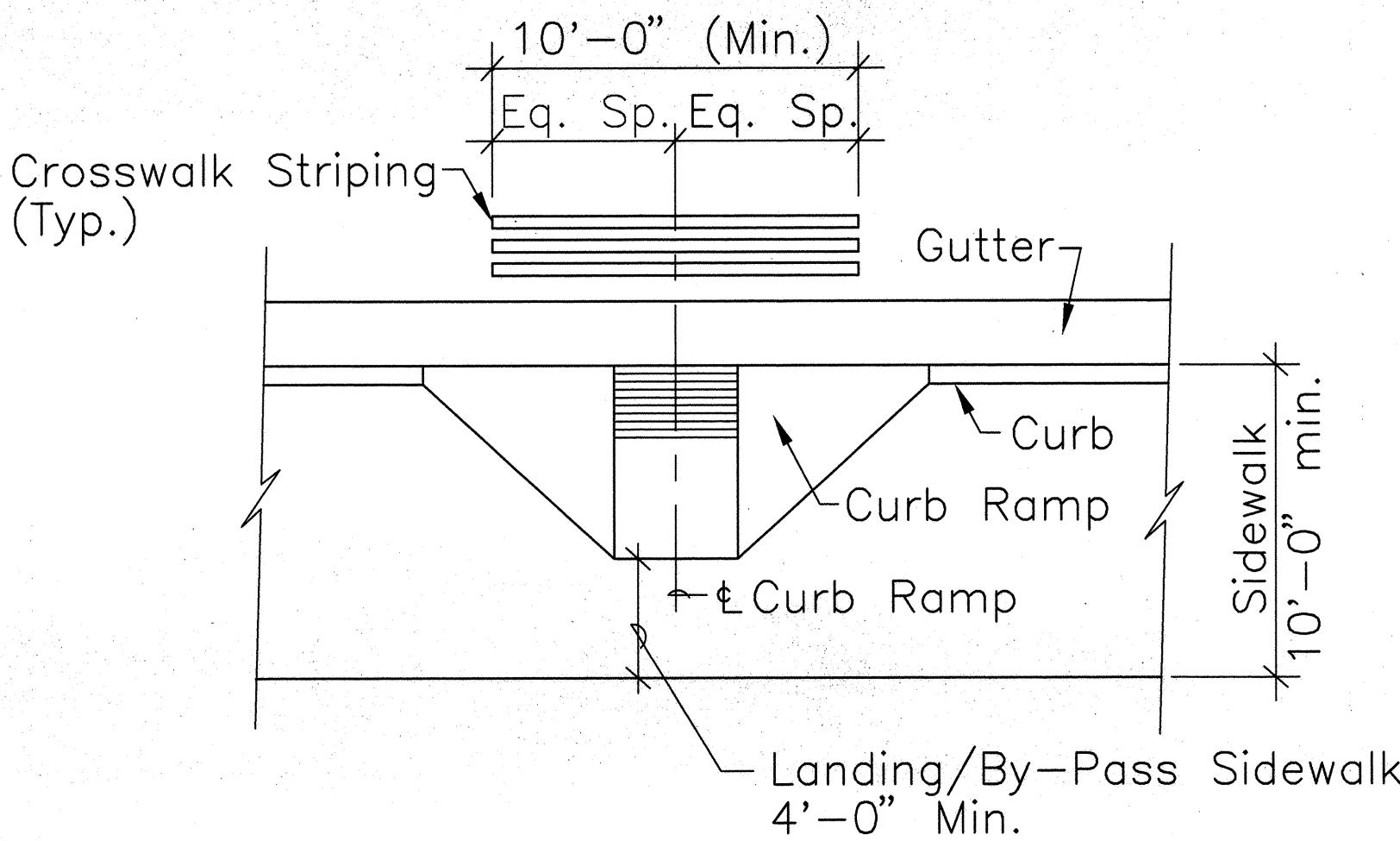
GENERAL NOTES

- When necessitated by existing physical conditions, alternate Curb Ramps may be used subject to Engineer's approval.
- Subject to field conditions, the Engineer shall determine final location of Curb Ramp.
- Where necessary, pullboxes, handholes, manholes, etc. shall be adjusted to match Curb Ramp grade. Adjustments shall not be paid for separately but shall be considered incidental to the various wheelchair items.
- All sidewalks shall provide a minimum clear width of 3'-0" (excluding curb) for pedestrian circulation.
- Narrow Sidewalks (3'-0" min. width excluding curb) will prohibit the installation of any sign posts, utility poles, fire hydrants, traffic signals standards, light poles, etc. in the sidewalk, which will prevent a 3'-0" wide clear zone for pedestrian circulation. Also, Narrow Sidewalks shall require a minimum 6'-0" wide by 10'-0" long passing space at intervals not to exceed 200 feet.
- If possible, install utility poles, fire hydrants, light poles, sign posts, pullboxes, etc. off of sidewalk but within the right-of way.
- Single curb ramps serving two street crossing directions is prohibited in new construction.
- Objects protruding from utility poles and walls adjacent to the sidewalks (i.e. wall mounted fire hydrants, telephones, meters on poles etc.) shall meet the current American with Disabilities Act (ADA) Accessibility Guidelines and will be subject to Engineer's approval.



TYPICAL CURB RAMPS

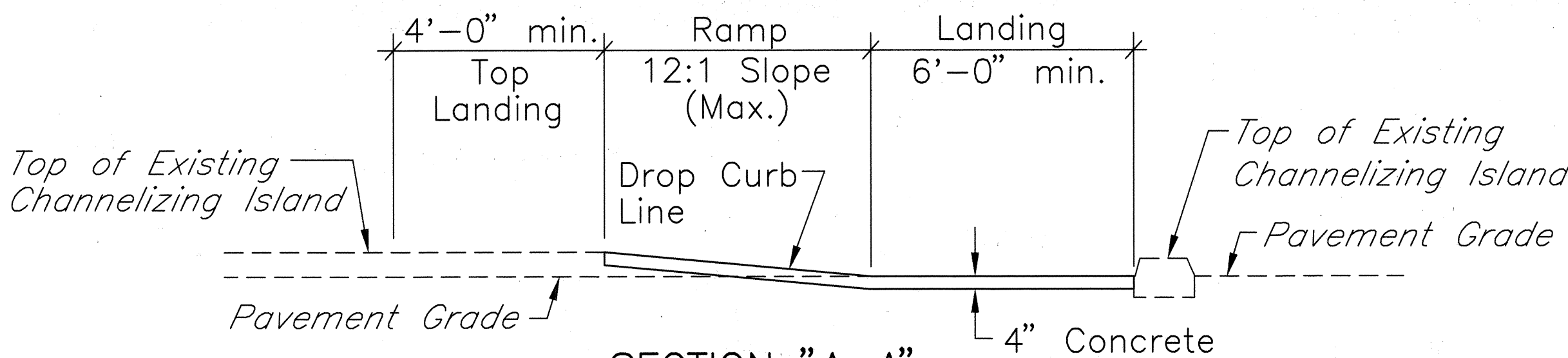
Not To Scale



TYPICAL CROSSWALK STRIPING

AT CURB RAMP

Not To Scale



SECTION "A-A"

USE AT INTERSECTION OF 2 CROSSWALKS
ON CHANNELIZING ISLAND

For Additional Details, See Type "B" Modified Curb Ramp

CURB RAMP

Not To Scale



THIS WORK WAS PREPARED BY ME
OR UNDER MY SUPERVISION.

Harold I. Yoshizaki
SHIMABUKUROZ ENDO & YOSHIZAKI, INC.
1126 12th Avenue
Honolulu, Hawaii 96816

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

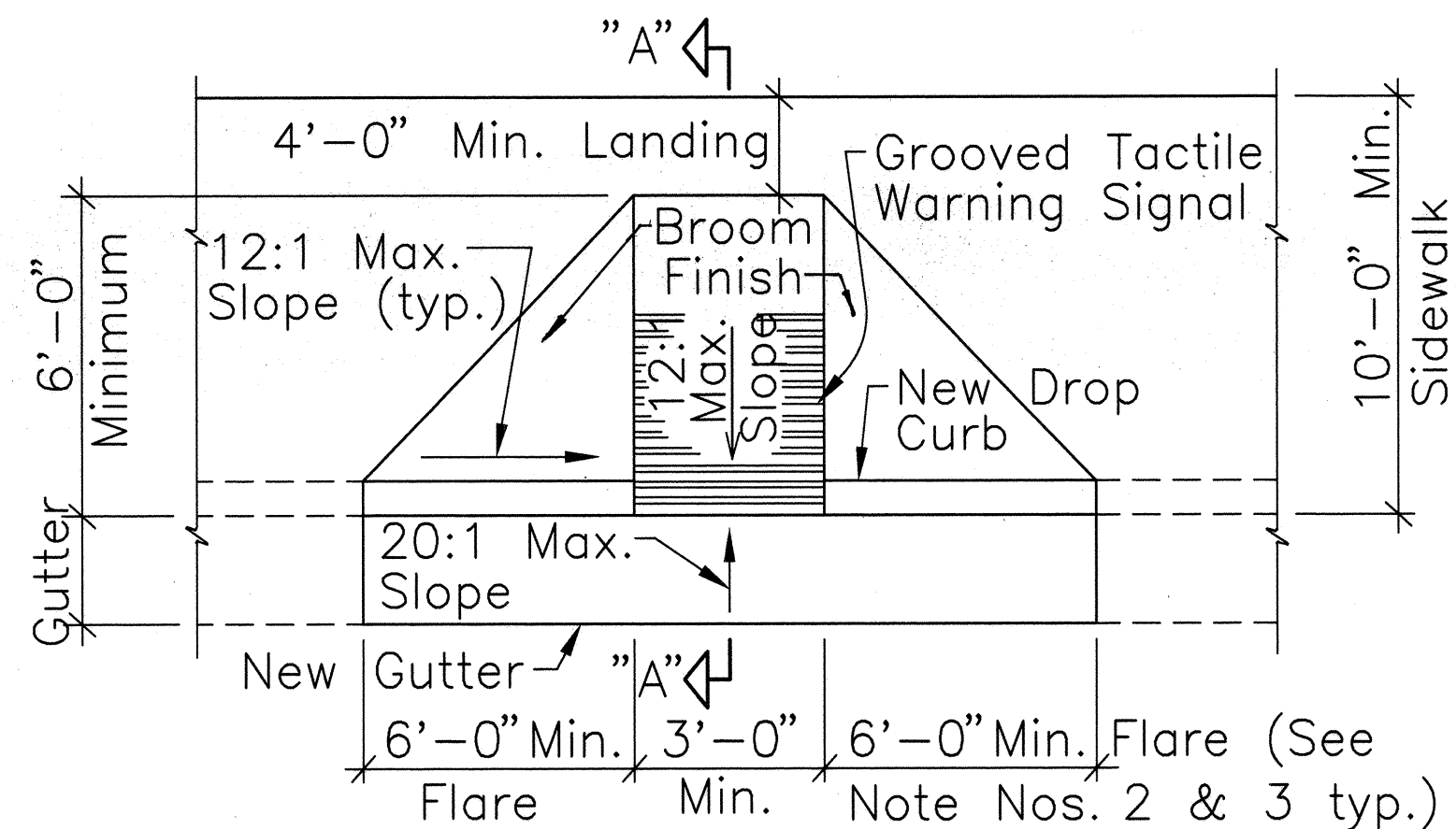
CURB RAMP DETAIL

KUHIO HIGHWAY
TRAFFIC SIGNAL MODERNIZATION
FED. AID PROJECT NO. STP-056-1(39)

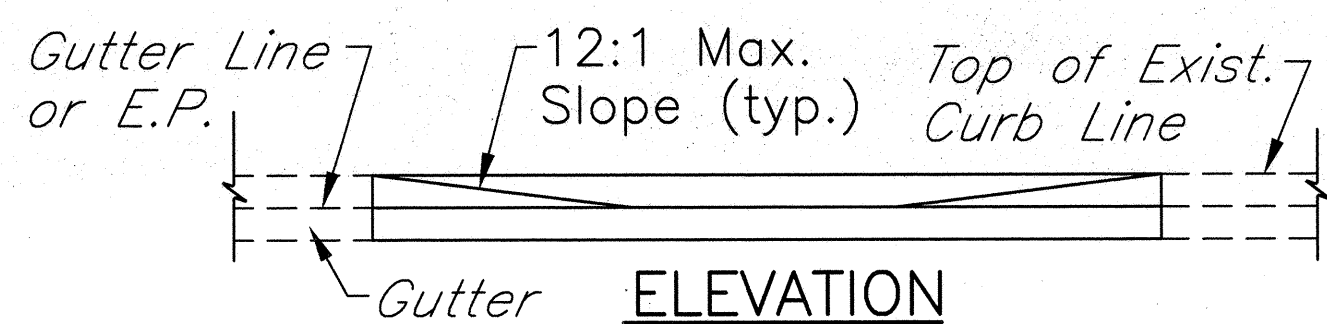
SCALE: AS SHOWN DATE: June 1997

SHEET NO. 1 OF 3 SHEETS

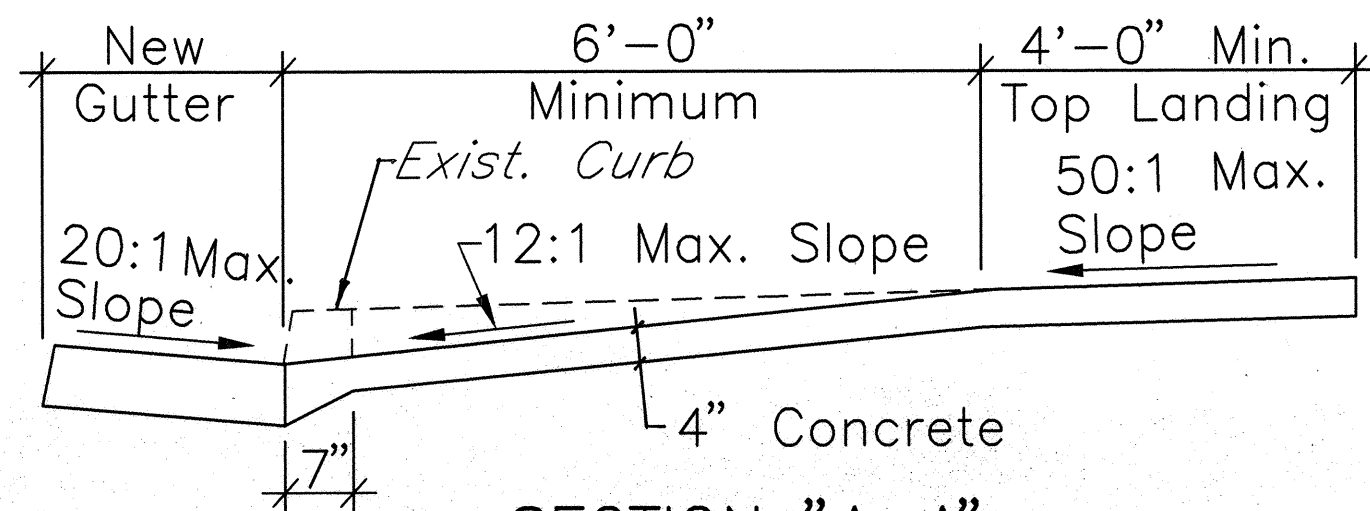
FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	STP-056-1(39)	1998	27	28



PLAN

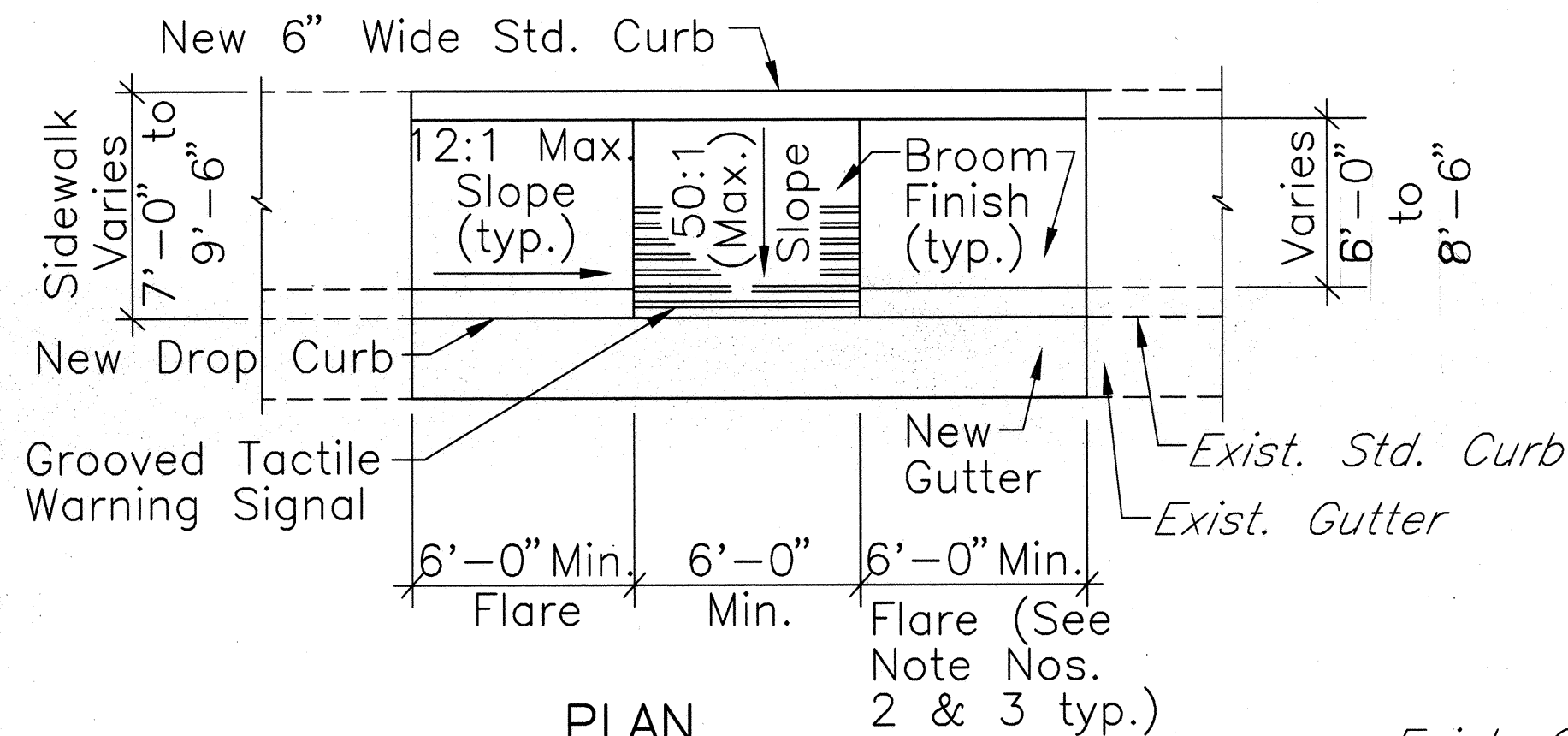


ELEVATION

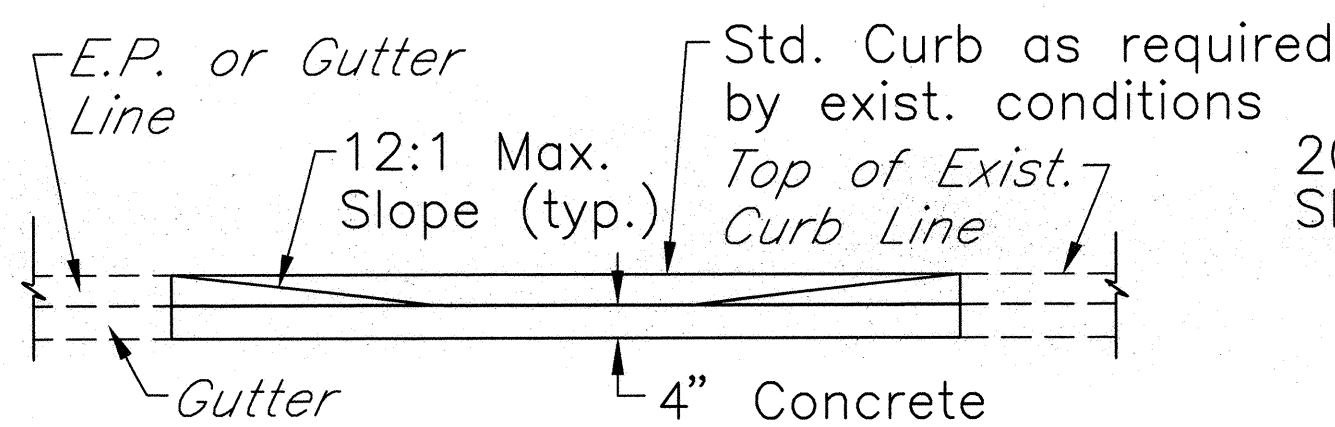


SECTION "A-A"

SIDEWALK WIDTH 10'-0" OR GREATER
CURB RAMP - TYPE "A"
 Not To Scale



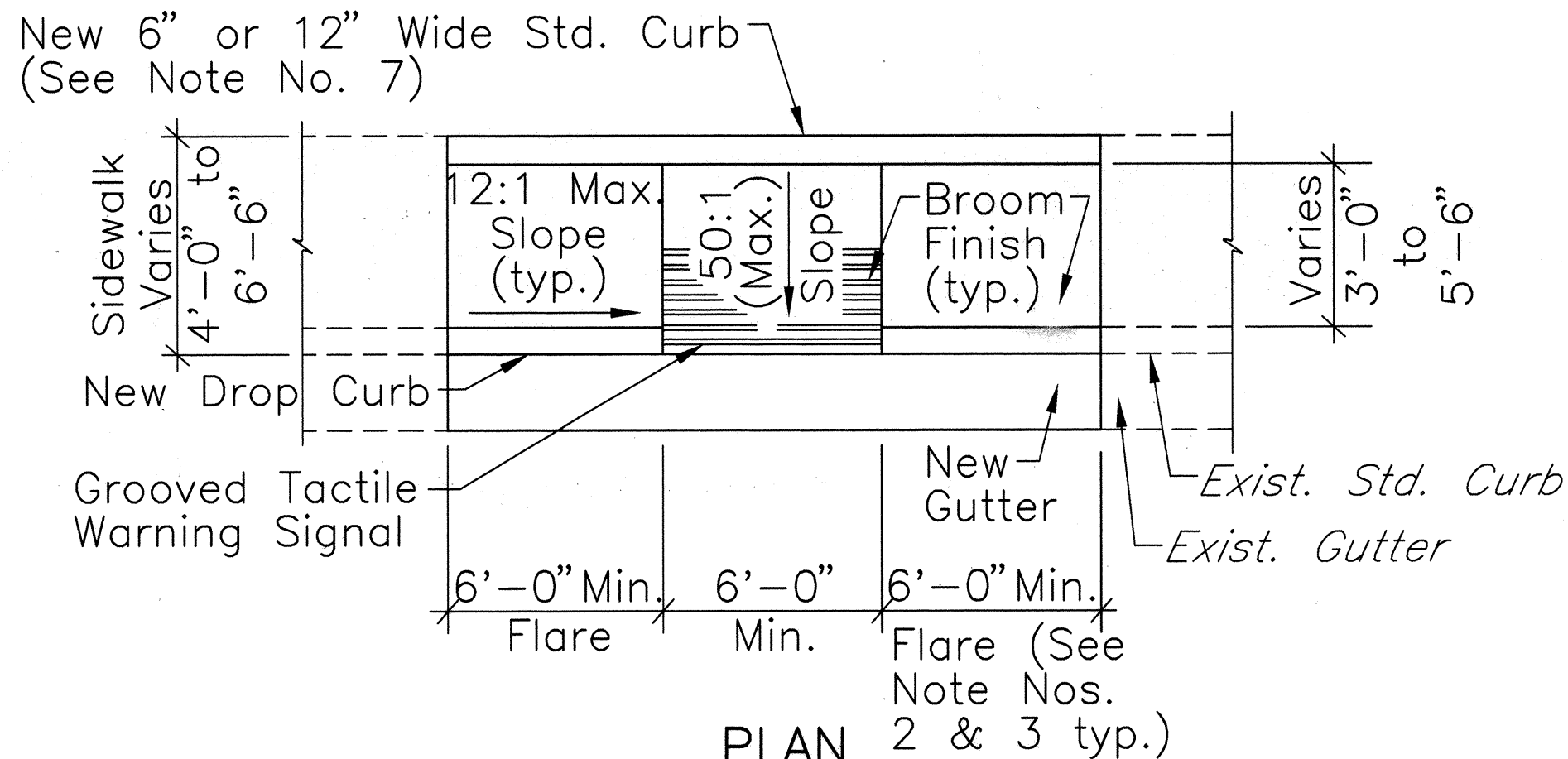
PLAN



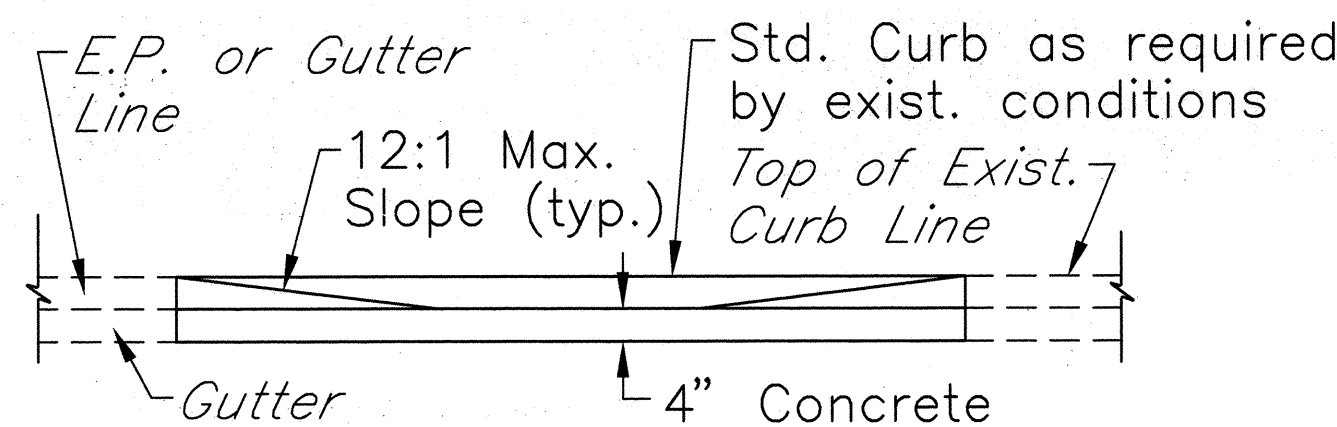
ELEVATION

SIDEWALK WIDTH 7'-0" OR GREATER
 BUT LESS THAN 10'-0" WIDTH

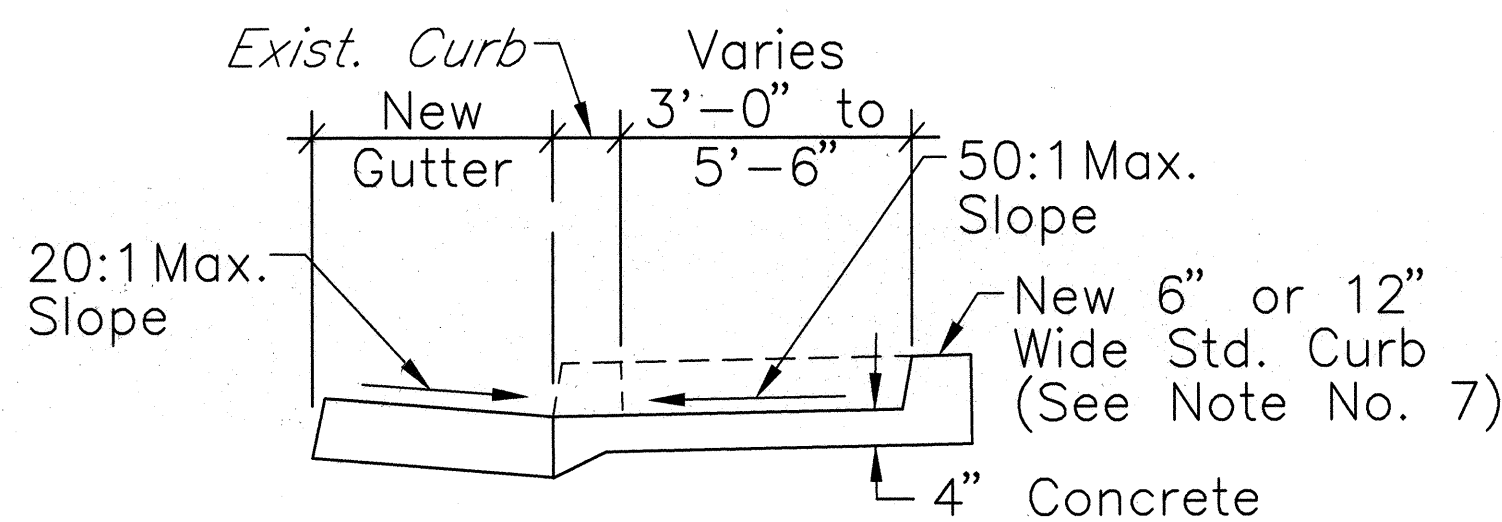
CURB RAMP - TYPE "B" MODIFIED
 Not To Scale



PLAN



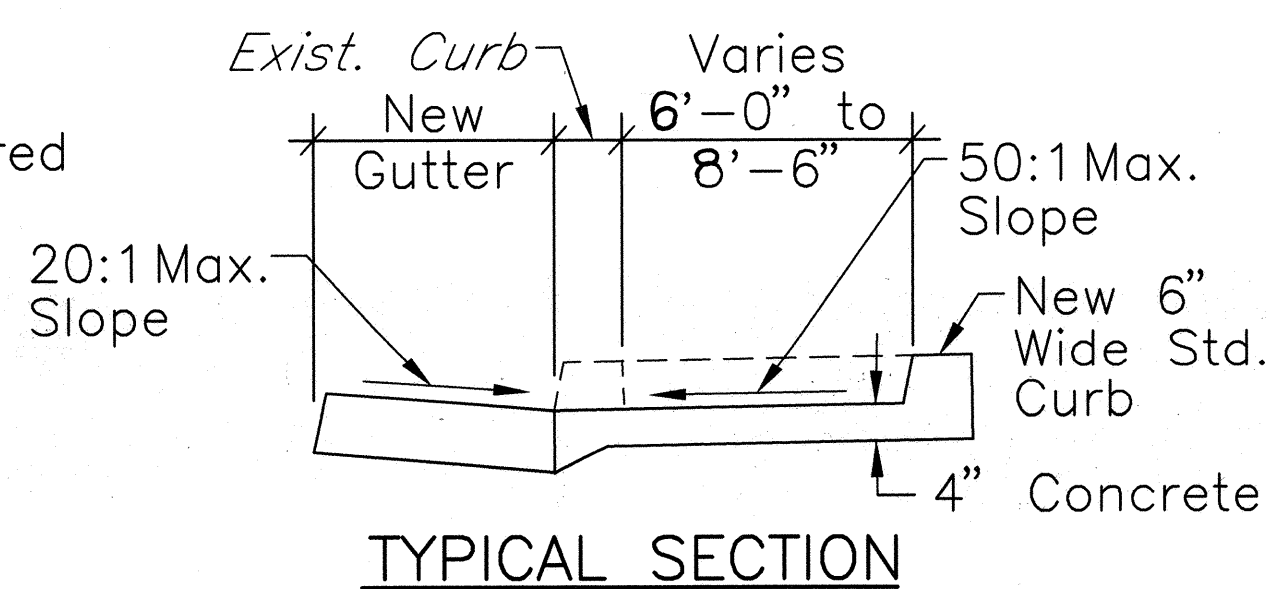
ELEVATION



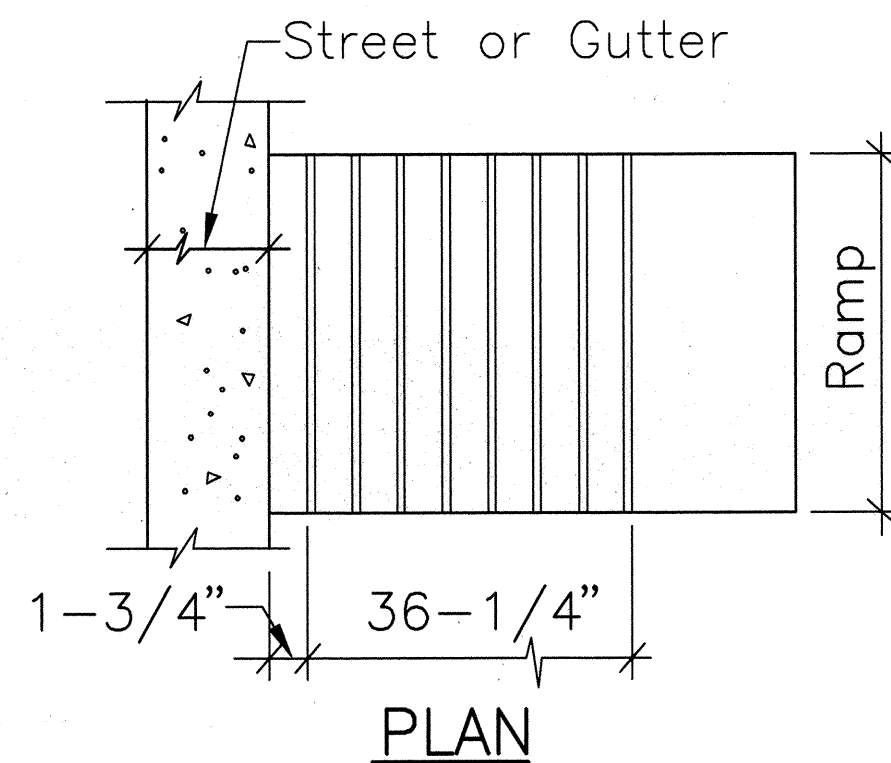
TYPICAL SECTION

SIDEWALK WIDTH 4'-0" OR GREATER
 BUT LESS THAN 7'-0" WIDTH
 (FOR EXISTING SIDEWALK ONLY)

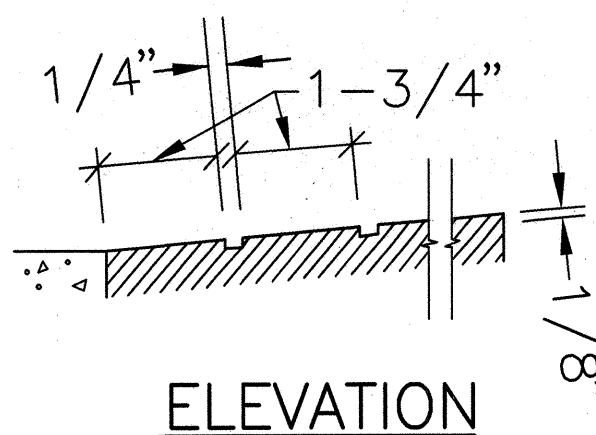
CURB RAMP - TYPE "B"
 Not To Scale



TYPICAL SECTION



PLAN



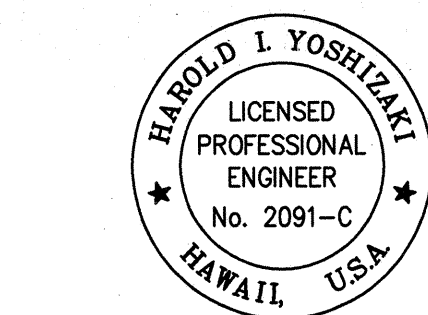
ELEVATION

GROOVED TACTILE WARNING SIGNAL
 Not To Scale

CURB RAMP NOTES:

- The New Gutter fronting the curb ramps shall not exceed a slope of 20:1 maximum. Areas without a gutter shall be handled on a case by case basis in order to meet the 20:1 maximum slope requirement.
- The New Gutter fronting the 6'-0" minimum flares on both sides of the New Curb Ramps shall have a transition slope from 20:1 maximum to the existing gutter slope.
- When the curb exceeds the standard 6" height, the side flares and ramp may be greater than 6'-0" in order to meet the 12:1 maximum slope requirement.
- Curb Ramps shall be reinforced if adjacent sidewalks are reinforced.
- All new adjacent sidewalks should have a minimum width of 6'-0" excluding the curb and the cross slope shall not exceed 50:1.
- The Contractor shall use the Edge of Pavement (E.P.) fronting the new curb ramp or gutter as the control elevation when constructing the New Curb Ramp or Curb Ramp with gutter.
- The New Standard Curb shall be 12" wide at signalized intersection or mid-block pedestrian crossings. For sidewalk width, excluding curb, is less than 4'-0", an Engineer approved, modified sidewalk with a minimum 3'-0" wide curb ramp and a 12" wide standard curb shall be installed.
- The width of Curb Ramp including curbs shall match the width of the sidewalk. When the sidewalk width is less than 4'-0", an Engineer approved, modified sidewalk with a minimum 3'-0" wide curb ramp excluding curbs shall be installed. Standard curbs shall be installed on all Type "D" and Modified Type "D" Curb Ramps.

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



THIS WORK WAS PREPARED BY ME
 OR UNDER MY SUPERVISION.
Harold I. Yoshizaki
 SHIMABUKURO, ENDO & YOSHIKAWA, INC.
 1126 12th Avenue
 Honolulu, Hawaii 96816

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

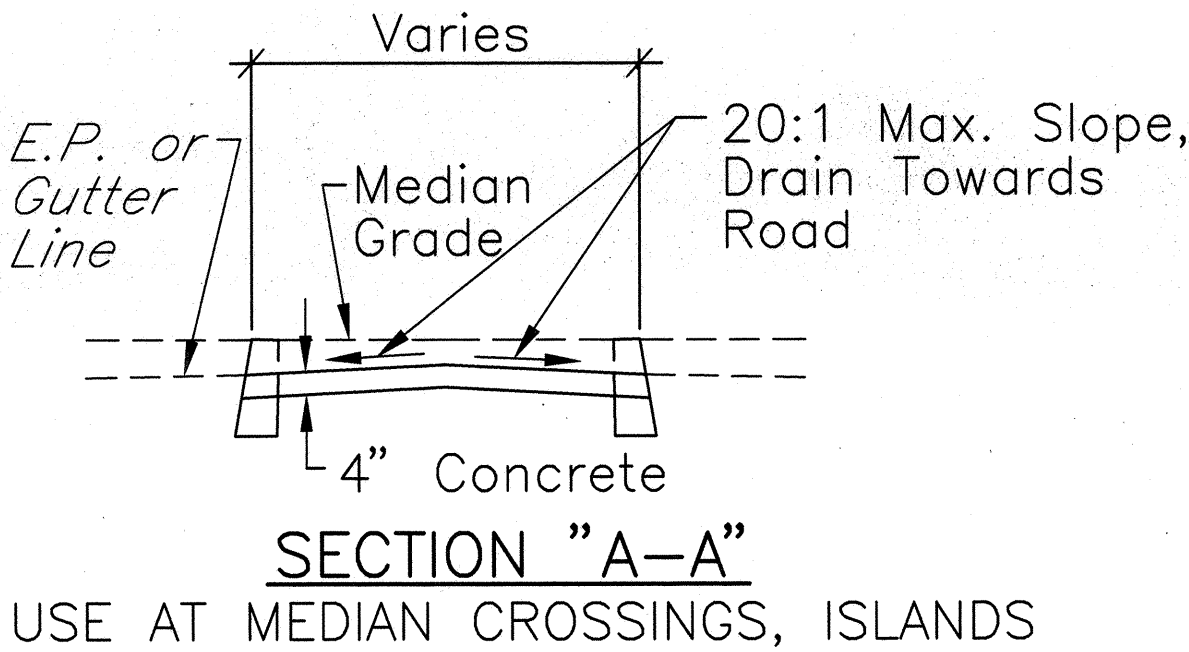
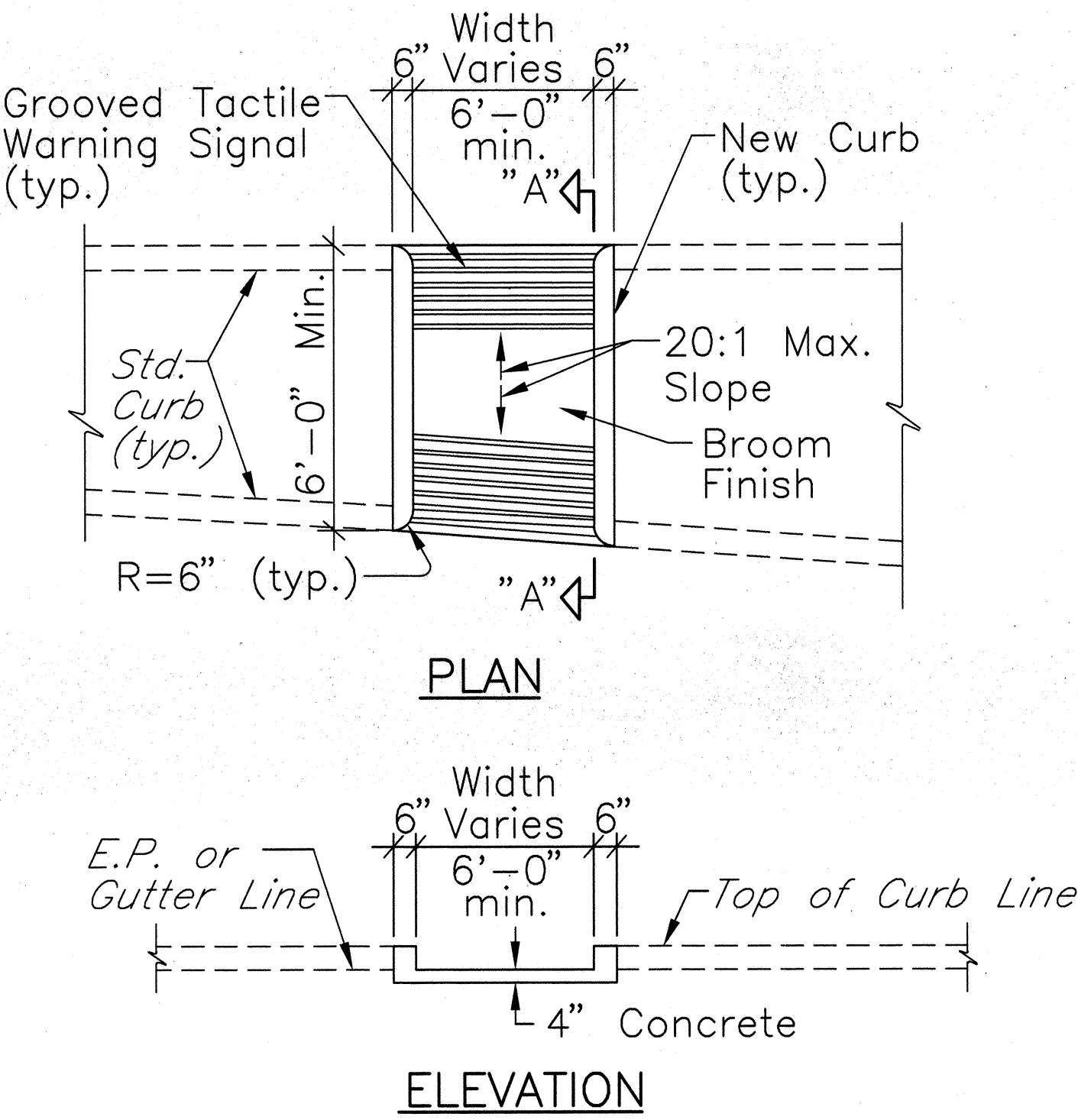
CURB RAMP DETAIL

KUHIO HIGHWAY
TRAFFIC SIGNAL MODERNIZATION
FED. AID PROJECT NO. STP-056-1(39)

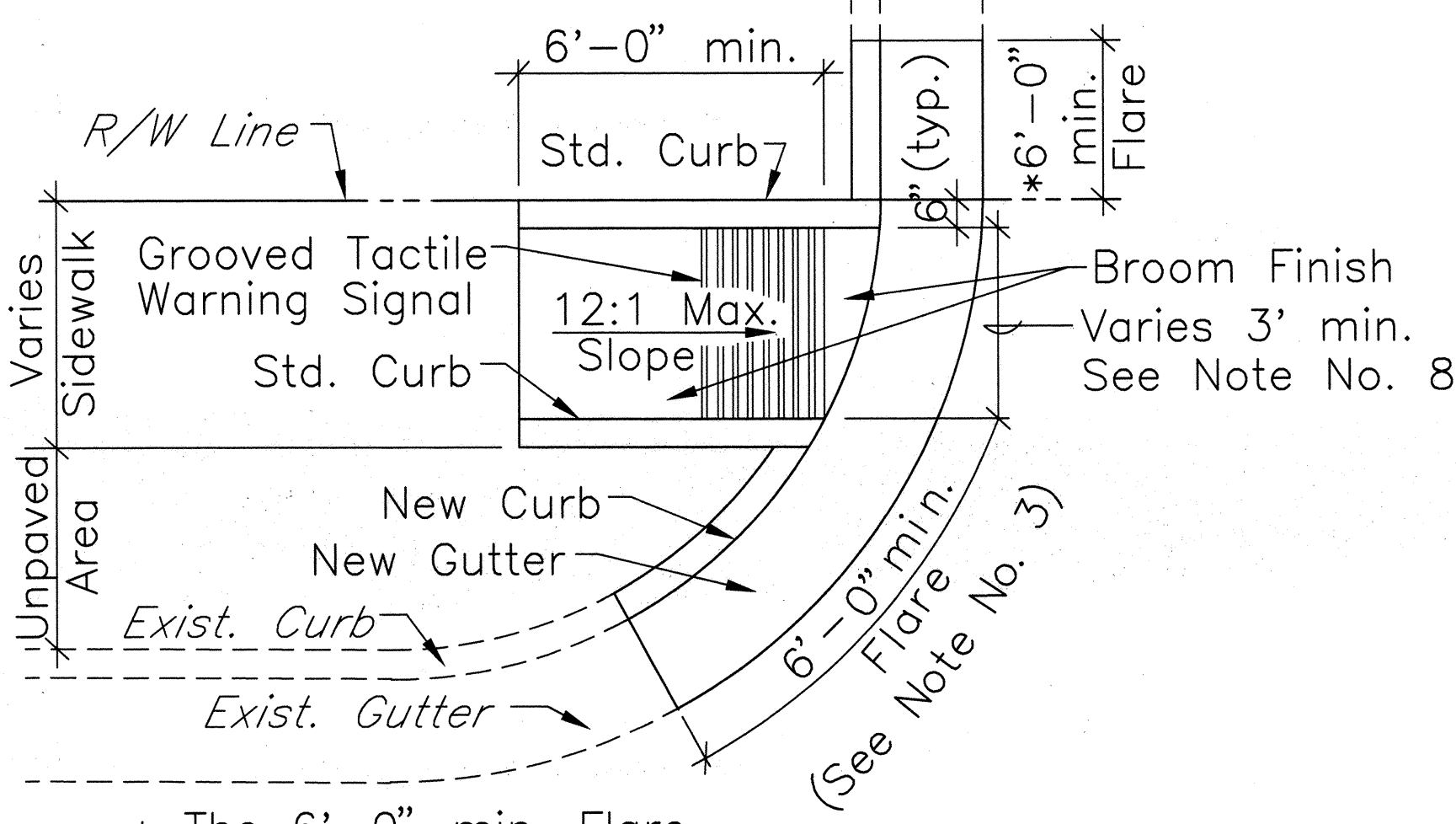
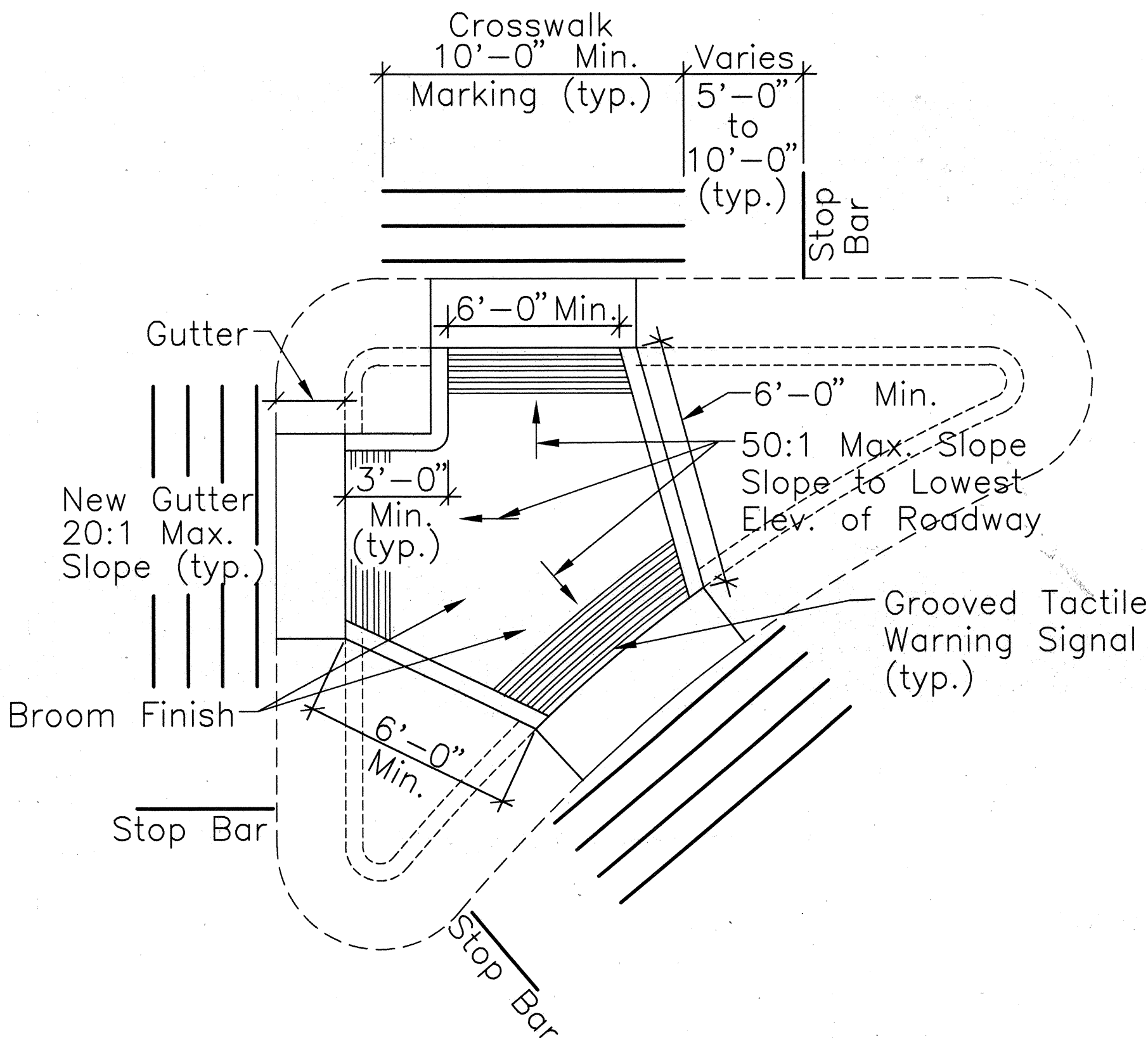
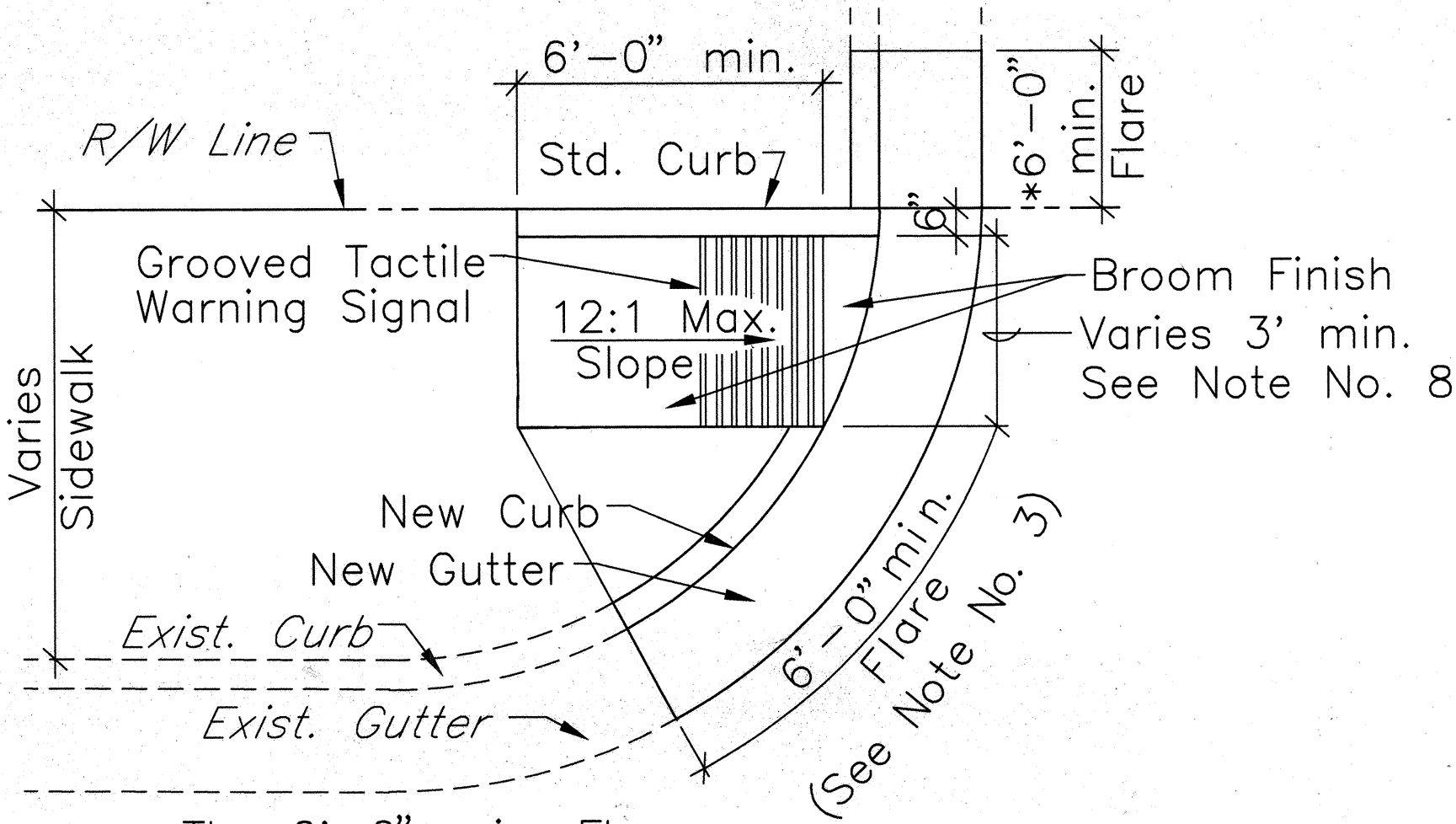
SCALE: AS SHOWN DATE: June 1997

SHEET NO. 2 OF 3 SHEETS

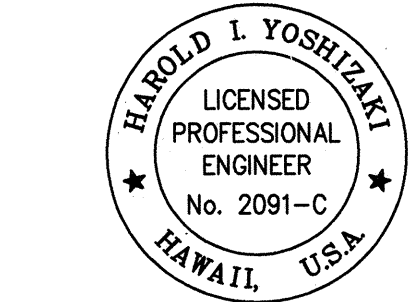
FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	STP-056-1(39)	1998	28	28



CURB RAMP - TYPE "C"
Not To Scale



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



THIS WORK WAS PREPARED BY ME
OR UNDER MY SUPERVISION.

Harold I. Yoshizaki
SHIMABUKURO, ENDO & YOSHIZAKI, INC.
1126 12th Avenue
Honolulu, Hawaii 96816

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

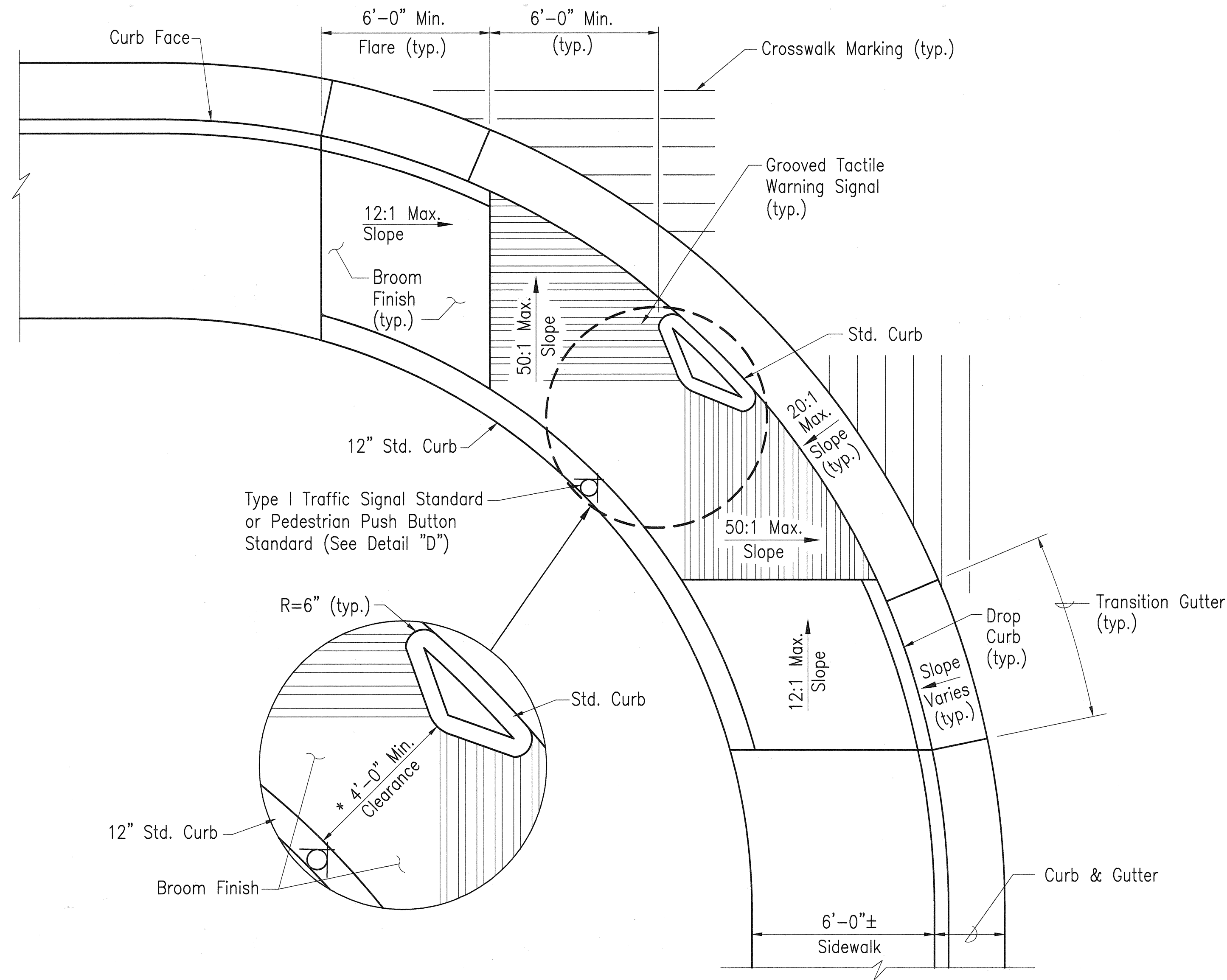
CURB RAMP DETAIL

KUHIO HIGHWAY
TRAFFIC SIGNAL MODERNIZATION
FED. AID PROJECT NO. STP-056-1(39)

SCALE: AS SHOWN DATE: June 1997

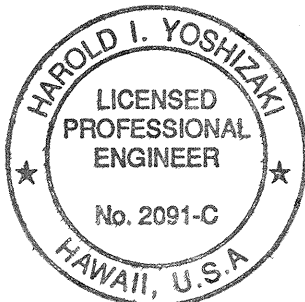
SHEET NO. 3 OF 3 SHEETS

FED. ROAD DIST. NO	STATE	FED. AID PROJ. NO	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	STP-056-1(39)	1998	28S-1	28



CURB RAMP - MODIFIED TYPE "E"
NOT TO SCALE

DESIGNED BY	DATE
DRAWN BY	
TRACED BY	
NOTED BY	
CHECKED BY	
DATE	



THIS WORK WAS PREPARED BY ME OR
UNDER MY SUPERVISION,
Harold I. Yoshizaki
SHIMABUKURO, ENDO & YOSHIZAKI, INC.
1126 12th Avenue
Honolulu, Hawaii 96816

10/8/98	Added detail for Modified Type "E" Curb Ramp
DATE	REVISION

STATE OF HAWAII DEPARTMENT OF TRANSPORTATION HIGHWAYS DIVISION
CURB RAMP DETAIL
KUHIO HIGHWAY TRAFFIC SIGNAL MODERNIZATION FEDERAL-AID PROJECT NO. STP-056-1(39) SCALE: AS SHOWN DATE: JUNE 1997 SHEET No. 1 OF 1 SHEETS