

FED. ROAD DIST. NO. FISCAL YEAR PROJ. NO. HAW. | STP-H201(3) | 1998

TO HONOLULU ----

Ala Napunani Remove 43 L.F. ± exist. guardrail, including ramp down end \$ concrete block.
Install 25 L.F. New Guardral, Type 3-Single with Steel Post with Modified Type "G" Flare (25' parabola for 4' offset from back of exist. sidewalk) with Rounded End, and tie into remaining guardrail. Removal of exist. guardrail and concrete block shall be considered incidental to the New Guardrail.

Ala Napunani <u>CSta. 7+15 ± Rt.</u> Remove exist. wheelchair ramps and Construct New Type "A" Curb Ramps. See Plan Shts. Nos. 18-22 for Details. Removal of exist. ramps shall be considered incidental to the New Type "A" Curb Ramps.

Ala Napunani ¢Sta. 7+40± Lt. Remove exist. wheelchair ramp and Construct New Type "B" Curb Ramp. See Plan Shts. Nos. <u>18-22</u> for Details. Removal of exist. ramps shall be considered incidental to the New Type "B" Curb Ramps.

South Frontage Road \$ Sta. 27+72± to \$ Sta. 28+22± Rt. Remove 50 L.F. exist. curb and gutter. Construct New P.C.C. Bus Stop (50'x10') and New Curb \$ Gutter (50± L.F.), Type "2DG" and connect to Match exist. curb \$ Gutter. Removal of exist. curb # gutter shall be considered incidental to
the New Type "2DG" Curb 
# Gutter. For Details, See Plan Sht. No. 16.

11101 NAPUNANI -New Type "B" Curb Ramp New Type "A" Curb Rampssamh RAMP ML-1 C&C MON. <sup>-</sup>S/GMH (covered) —New Type 6 0+00 SOUTH FRONTAGE ROAD Bituminous Curb CCC MON. Ala Napunani -ta box Construct 70 L.F. of New 4" Reinforced -New Type "B" Concrete Sidewalk and New Type "B" Curb Curb Ŕamp Ramps. See plan sht. no. 16 for sidewalk detail and plan shts. no. 18-22 for curb New Type #E# Curb Ramp Ala Napunani ramp details. Remove 190± L.F. of exist. type 6 Remove exist. curb ramp and "B"
Construct New Type "E" Curb Ramp.
Ramps
See Plan Sht. Nos. 18-22 for Details.
Removal of exist. ramps shall be bituminous curb around painted island. Construct 175± L.F. of New Type 6 7 Bituminous Curb allowing for 2-6.0' NAPUNANI openings for pedestrian access and considered incidental to the New Type 1.0' openings every 6.0' O.C. for drainage. Removal of Type "6" bituminous curb shall be considered incidental to New #<del>E"</del> Curb <del>Ramp</del>.Ramps -provide smooth transition to existing sidewalk 0/ LAKE BLYD -existing C¢C sidewalk

> **DETAIL** ALA NAPUNANI/SOUTH FRONTAGE RD/RAMP ML-1 INTERSECTION

> > LEGEND FOR AS-BUILT POSTINGS Squiggly line for as-built deletion <del>~~~</del> Double line for as-built deletion <del>100.00</del> Text for as-built posting Roadway

STATE OF HAWAII DEPARTMENT OF TRANSPORTATION HIGHWAYS DIVISION

# MISCELLANEOUS DETAILS

MOANALUA FREEWAY RAMPS RESURFACING <u>Vicinity of Ala Kapuna to Vicinity of Ala Napunani</u> F.A. Project No. STP-H201(3)

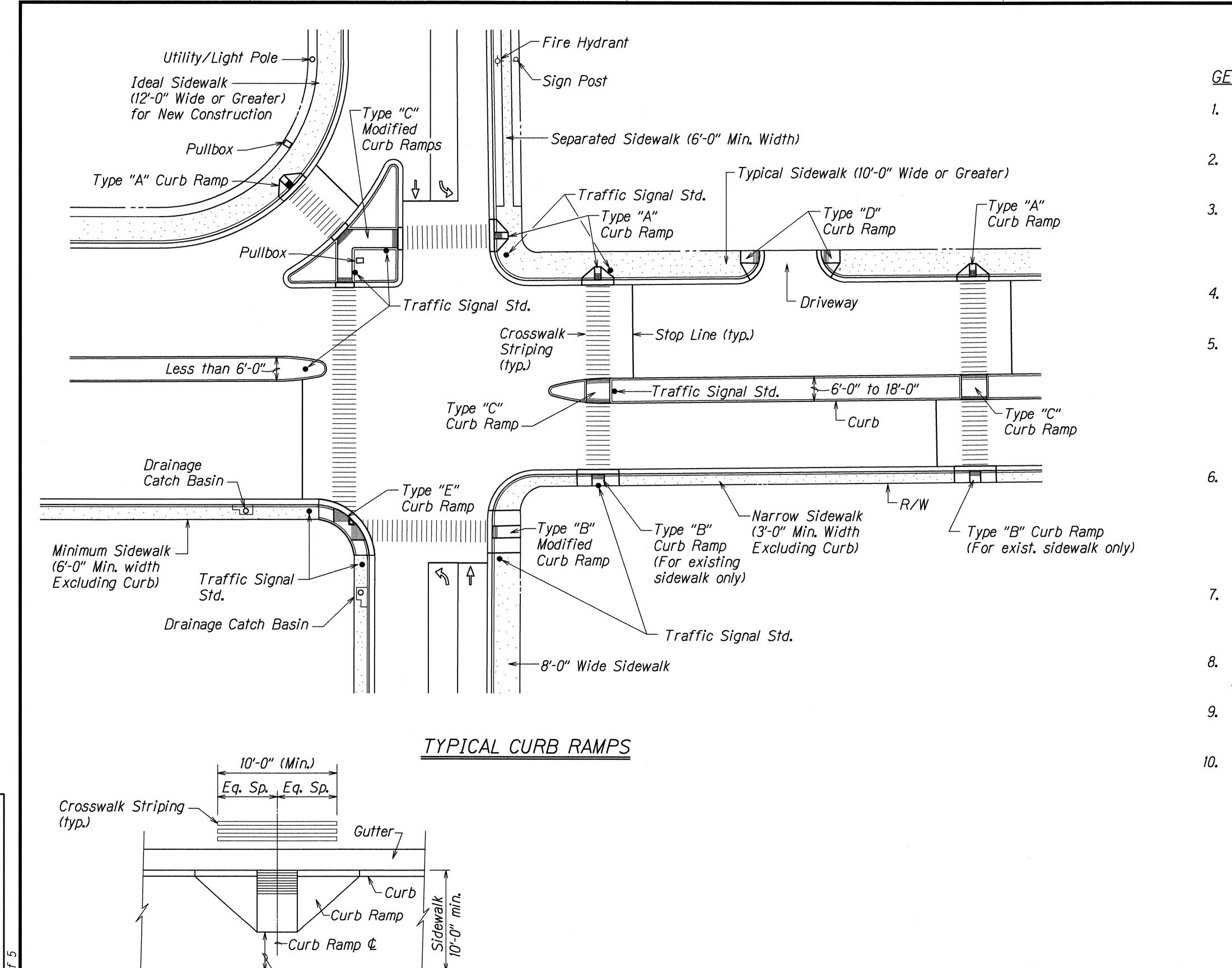
SHEET No. 1

Scale: 1" = 20'

Type "6" Bituminous Curb.

Date: July, 1998 OF 3 SHEETS

"AS-BUILT"



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#### **GENERAL NOTES:**

- 1. When necessitated by existing physical conditions, alternate Curb Ramps may be used subject to Engineeer's approval.
- 2. Subject to field conditions, the Engineer shall determine final location of Curb Ramp.
- 3. Where necessary, existing pullboxes, handholes, manholes, etc. shall be adjusted to match Curb Ramp grade. Adjustments shall not be paid for sepatately but shall be considered incidental to the various curb ramp items.
- 4. All sidewalks shall provide a minimum clear width of 3'-0" (excluding curb) for pedestrian circulation.
- 5. 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, excluding curbs, by 10'-0" long passing space at intervals not to exceed 200 feet.
- 6. For New Construction, the minimum sidewalk width shall be 6'-6", excluding curbs at signalized intersections and the cross slope shall not exceed 50:1. Sidewalk width may be decreased to 6'-0" excluding curbs at non-signalized intersections. For high pedestrian traffic the width shall be a minimum of 12'-0" and/or determined by the Engineer.
- 7. If possible, install utility poles, fire hydrants, light poles, sign posts, pullboxes, etc. off of sidewalk but within the right-of way.
- 8. Single curb ramps serving two street crossing directions is prohibited in new construction.
- 9. New Curb Ramps shall be installed at 90° to the sidewalk or to the maximum extent feasible.
- 10. Objects protruding from utility poles and walls adjacent to the sidewalks (i.e. wall mounted fire hydrants, telephones, meters on poles etc.) shall be mounted to meet the current American with Disabilities Act (ADA) Accessibility Guidelines and will be subject to Engineer's approval.

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

## CURB RAMP DETAIL

MOANALUA FREEWAY RAMPS RESURFACING Vicinity of Ala Kapuna to Vicinity of Napunani F.A. Project No. STP-H201(3)

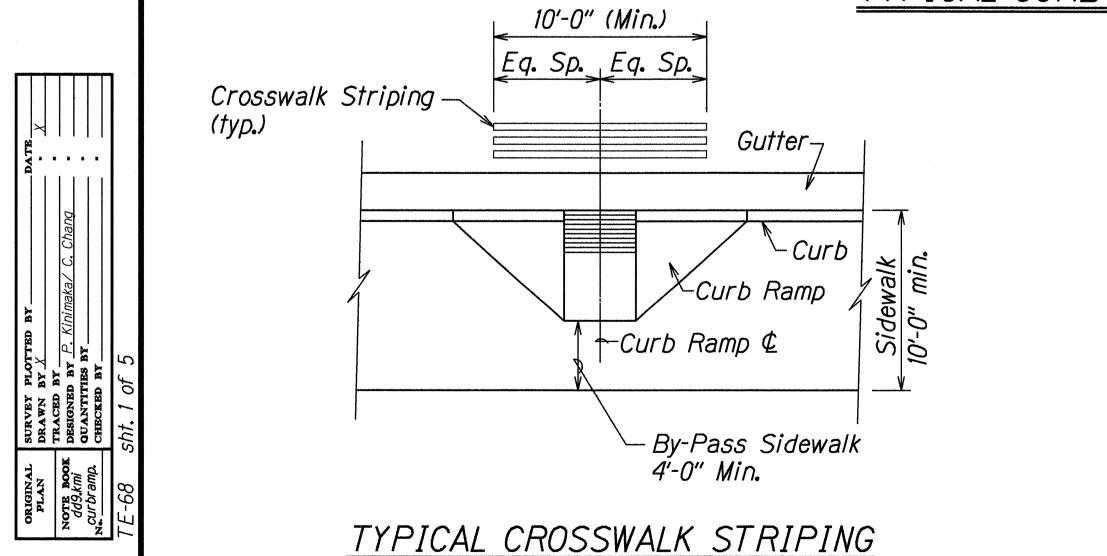
Not to Scale

Date: July, 1998

OF 5 SHEET No. 1

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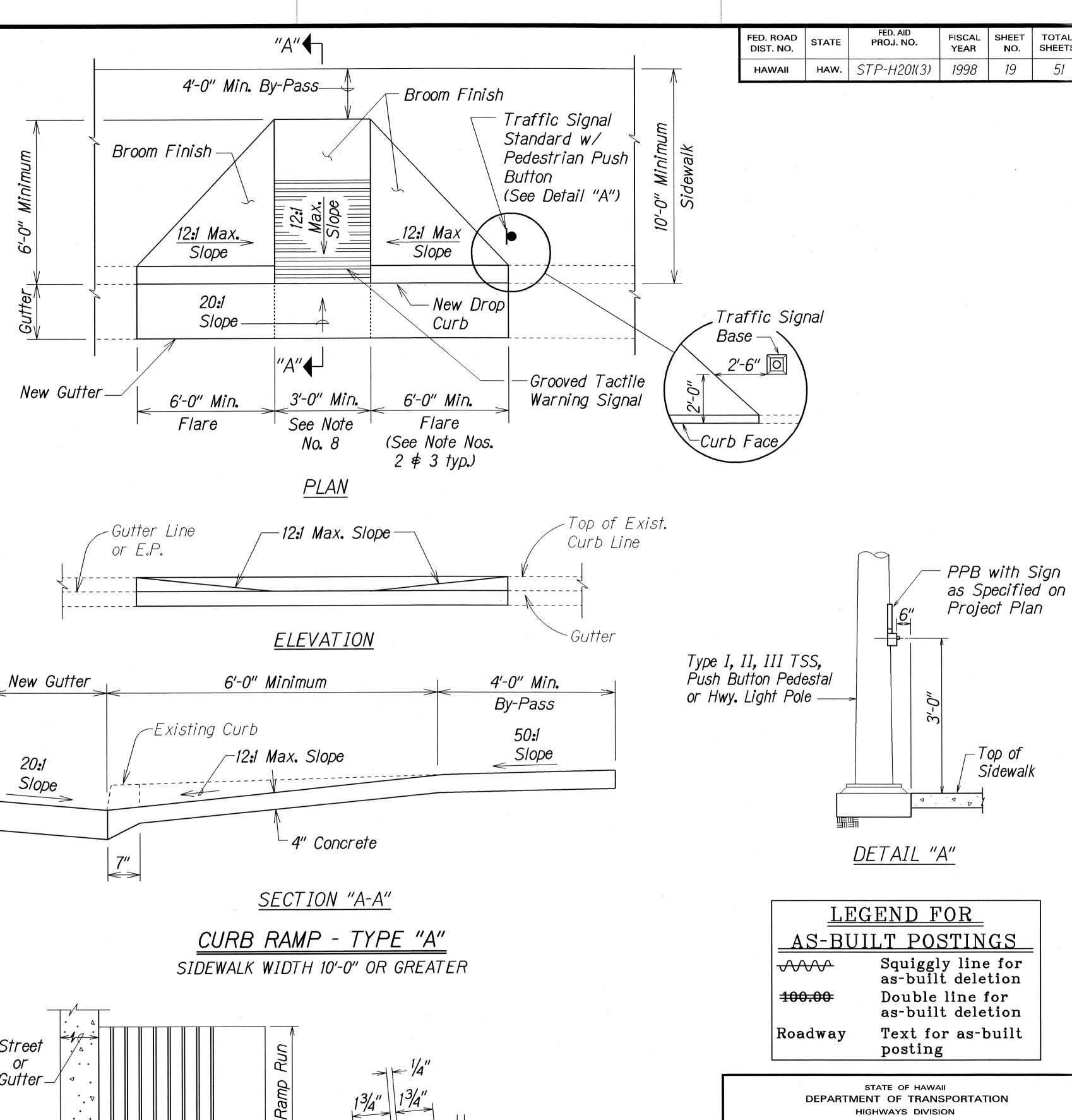
SHEETS

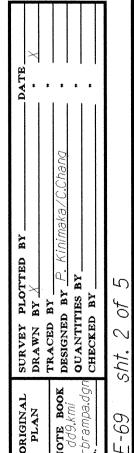


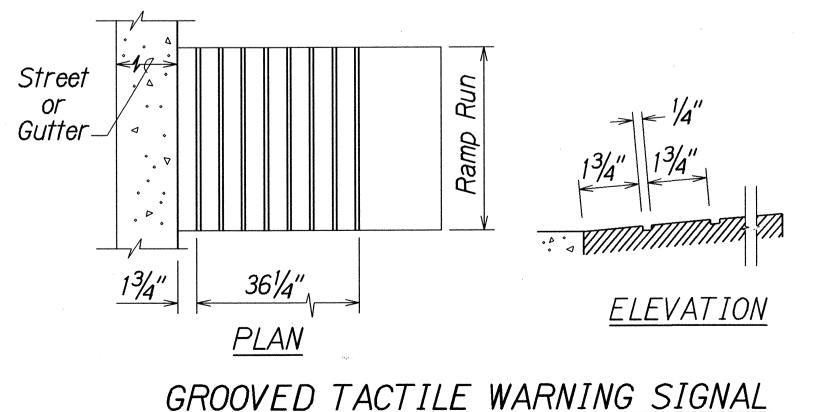
AT CURB RAMP

#### CURB RAMP NOTES:

- 1. The New Gutter fronting the curb ramps shall not exceed a slope of 20:1. Area without a gutter shall be handled on a case by case basis in order to meet the 20:1 slope requirement.
- 2. 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 to the existing gutter slope.
- 3. 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.
- 4. Curb Ramps shall be reinforced if adjacent sidewalks are reinforced.
- 5. 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.
- 6. For Type "B" \$ Type "E" Curb Ramps, New Standard Curb shall be 12" wide when installing Type I Traffic Signal Standard (TSS) or Pedestrian Push Button Pedestal (PPB). Where Type II or Type III TSS or Highway Light Pole is utilized, the width of the New Standard Curb shall be determined by the Engineer. For sidewalk less than 4'-0" (excluding curb), an Engineer approved 3'-0" wide minimum curb ramp shall be installed.
- 7. The width of the 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. see below
- 7. When sidewalk width is less than 4'-0'' and is Engineer approved a modified curb ramp with a minimum width of 3'-0'' (excluding curb) shall be installed.
- 8. The width of the curb ramp run shall be increased to 10'-0" at areas with high pedestrian traffic and as directed by the Engineer or shown on the plans.
- 9. A minimum 3'-0" wide by 5'-0" long (excluding curbs) flat, stable paved surface with a cross slope of 50:1 shall be provided for a parallel approach to the pedestrian push button.
- 10. The pedestrian push button shall meet current American with Disabilities Act (ADA) Accessibility Guidelines and will be subject to Engineer's approval.
- 11. All Pullboxes shall be installed within the sidewalk/unpaved area or as directed by the Engineer. Pullboxes shall not be installed within the curb ramp (including flares).







''AS-BUILT''

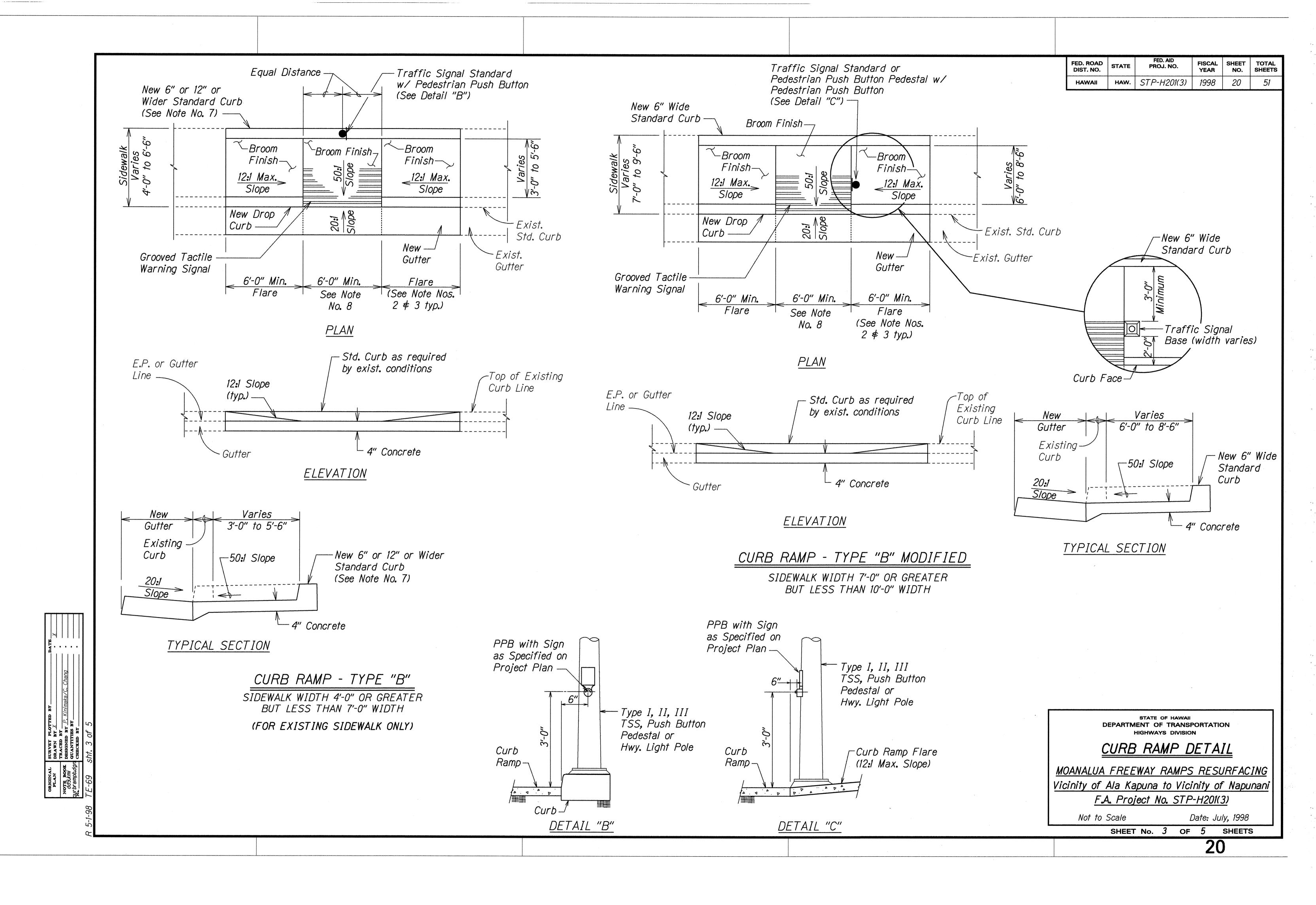
MOANALUA FREEWAY RAMPS RESURFACING Vicinity of Ala Kapuna to Vicinity of Napunani F.A. Project No. STP-H201(3)

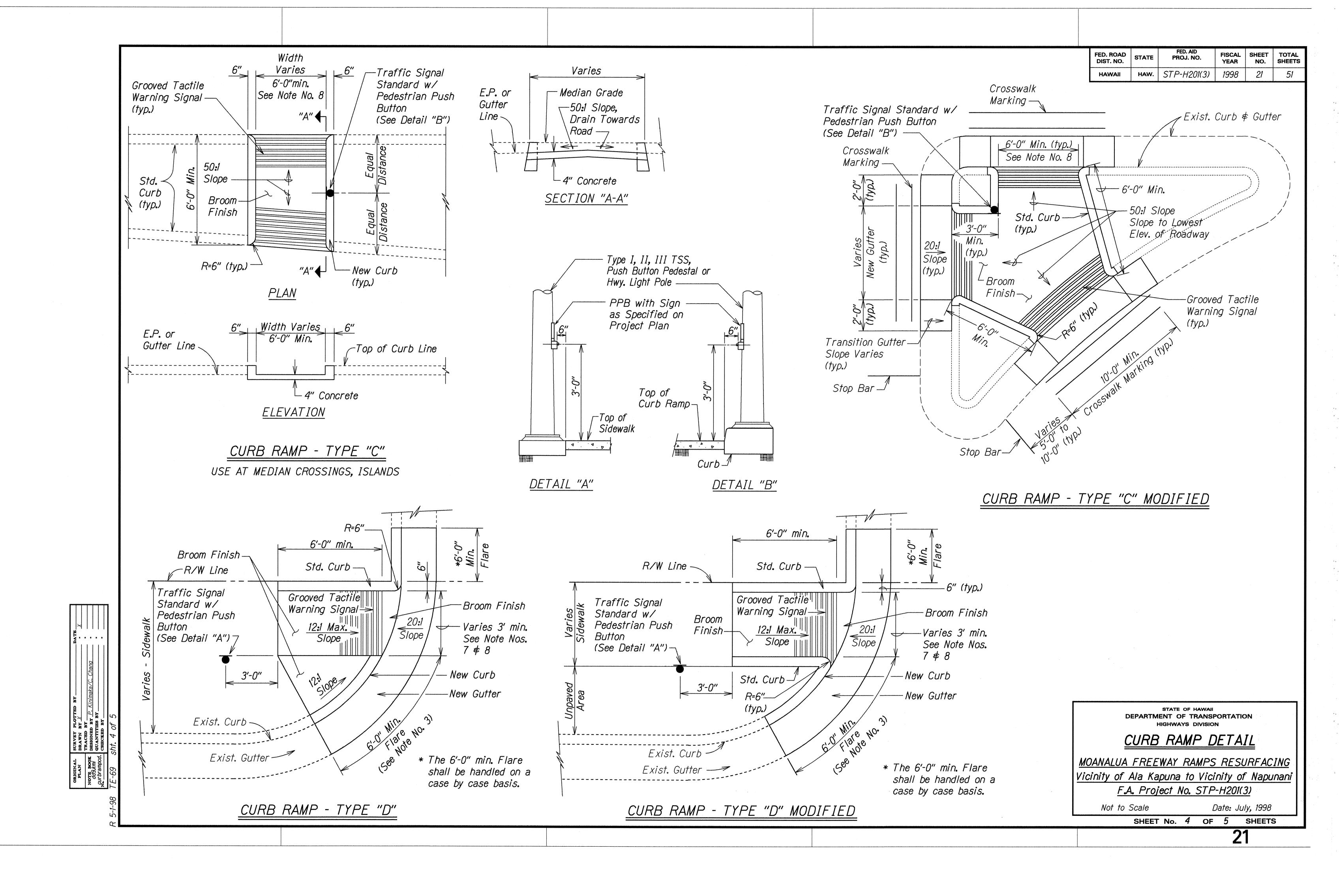
CURB RAMP DETAIL

Not to Scale Date: July, 1998

SHEET No. 2 OF 5 SHEETS

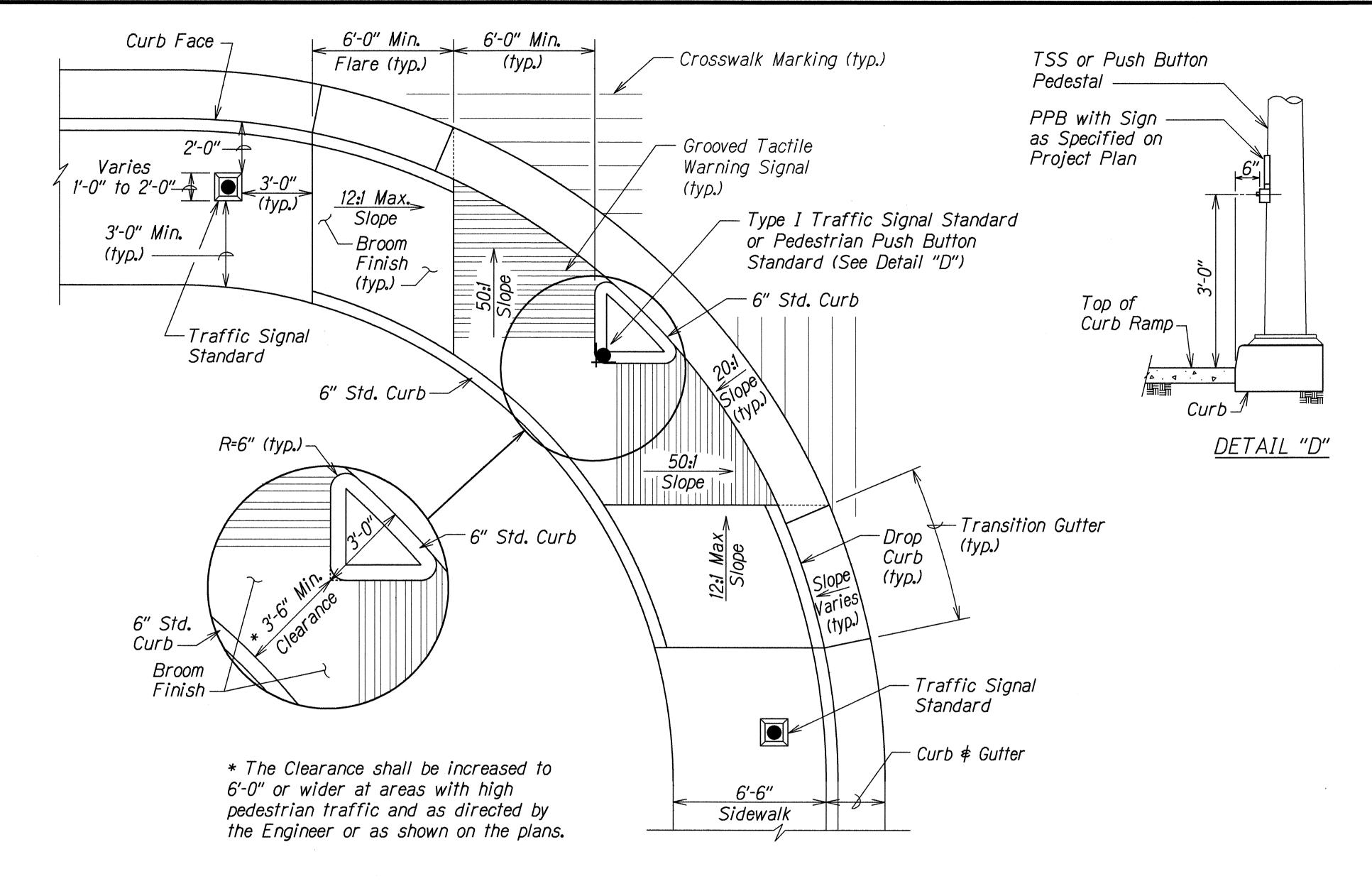
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FED. ROAD DIST. NO. STATE PROJ. NO. FISCAL SHEET NO. SHEETS

HAWAII HAW. STP-H201(3) 1998 22 51



CURB RAMP - TYPE "E"

SIDEWALK WIDTH 6'-6" OR GREATER

EXCLUDING CURB

(FOR EXISTING SIDEWALK ONLY)

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

## CURB RAMP DETAIL

MOANALUA FREEWAY RAMPS RESURFACING
Vicinity of Ala Kapuna to Vicinity of Napunani

F.A. Project No. STP-H201(3)

Not to Scale

Date: July, 1998

SHEET No. 5 OF 5 SHEETS

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