

Waialae Avenue
Sta. 76+23± o/s 24.0'±, Lt.
Construct New Modified Curb
Ramp Type "E". For Details,
See Plan Sheet No. 18.

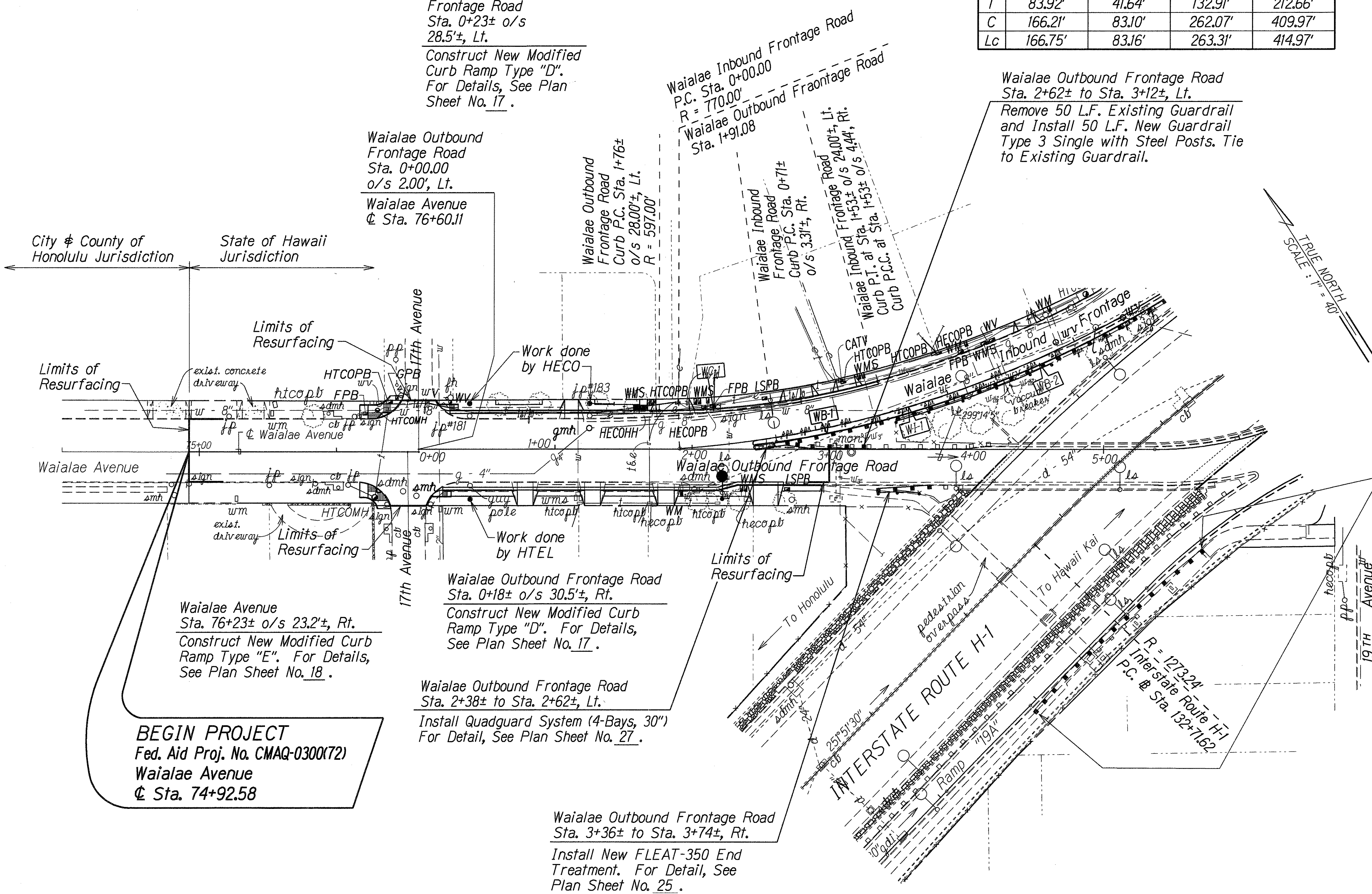
Waialae Inbound
Frontage Road
Sta. 0+23± o/s
28.5'±, Lt.
Construct New Modified
Curb Ramp Type "D".
For Details, See Plan
Sheet No. 17.

Waialae Outbound
Frontage Road
Sta. 0+00.00
o/s 2.00', Lt.
Waialae Avenue
Sta. 76+60.11

CURVE DATA				
	WC-1	WB-1	WB-2	WI-1
Δ	16°00'13"	7°39'49"	19°16'24"	35°52'41"
R	597.00'	625.00'	782.78'	770.00'
T	83.92'	41.64'	132.91'	212.66'
C	166.21'	83.10'	262.07'	409.97'
Lc	166.75'	83.16'	263.31'	414.97'

Waialae Outbound Frontage Road
Sta. 2+62± to Sta. 3+12±, Lt.
Remove 50 L.F. Existing Guardrail
and Install 50 L.F. New Guardrail
Type 3 Single with Steel Posts. Tie
to Existing Guardrail.

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	CMAQ-0300(72)	2000	28	60



Ramp "19A"
Sta. 6+93± to Sta. 8+63±, Rt.
Remove Existing Metal Guardrail.
Install New Strong Post W-Beam
Guardrail and SKT-350 End
Treatment. For Detail, See Plan
Sht. Nos. 22-24, 26.

Waialae Avenue
Sta. 76+23± o/s 23.2'±, Rt.
Construct New Modified Curb
Ramp Type "E". For Details,
See Plan Sheet No. 18.

Waialae Outbound Frontage Road
Sta. 0+18± o/s 30.5'±, Rt.
Construct New Modified Curb
Ramp Type "D". For Details,
See Plan Sheet No. 17.

Waialae Outbound Frontage Road
Sta. 2+38± to Sta. 2+62±, Lt.
Install Quadguard System (4-Bays, 30")
For Detail, See Plan Sheet No. 27.

Waialae Outbound Frontage Road
Sta. 3+36± to Sta. 3+74±, Rt.
Install New FLEAT-350 End
Treatment. For Detail, See
Plan Sheet No. 25.

ORIGINAL PLAN	DATE 11/28/99
DESIGNED BY S. J. M. A.	
CHECKED BY S. J. M. A.	
QUANTITIES BY S. J. M. A.	
NOTES BY S. J. M. A.	

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

ROADWAY PLAN

Waialae Avenue Shoulder Improvements
For Bicycle Lanes
Kealaolu Avenue to Kalanianaʻole Highway
and 17th Avenue to 21st Avenue
Federal Aid Project No. CMAQ-0300(72)

Scale: 1"=40' Date: June, 2000

SHEET No. 1 OF 5 SHEETS

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	CMAQ-0300(72)	2000	C.O.29	60

Waialae Outbound Frontage Road
Sta. 0+00.00
o/s 2.00', Lt.
Waialae Avenue
@ Sta. 76+60.11

Waialae Outbound Frontage Road
Sta. 2+22±, Rt.
Relocate Existing Highway
Lighting Standard. For Details,
See Plan Shf. No. 50.

Waialae Inbound Frontage Road
Sta. 0+50± to Sta. 5+00±, Rt.
Remove 470.0± L.F. Existing Conc.
Curb and Gutter. And Install 437.0±
L.F. New Type 2D Concrete Curb

Waialae Outbound Frontage Road
Sta. 0+05±, Lt to
Waialae Inbound Frontage Road
Sta. 3+74±, Lt.
Remove Existing A.C. Sidewalk
and Construct New 4" Concrete
Sidewalk. For Details, See Plan
Sheet No. 5 & 6.

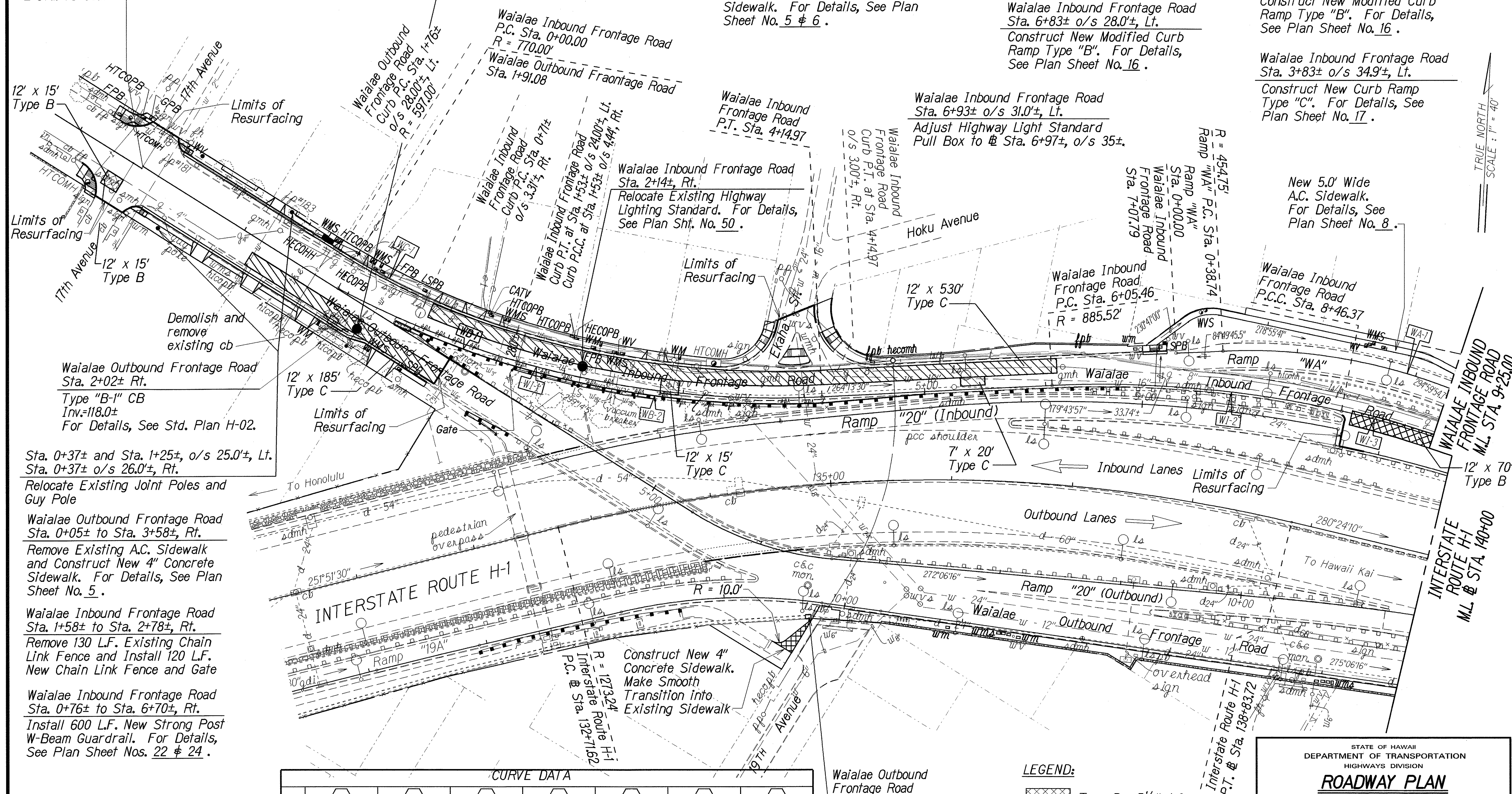
Waialae Inbound Frontage Road
Sta. 3+68± o/s 43.9±, Lt.
Construct New Curb Ramp
Type "B". For Details, See
Plan Sheet No. 16.

Waialae Inbound Frontage Road
Sta. 6+83± o/s 28.0±, Lt.
Construct New Modified Curb
Ramp Type "B". For Details,
See Plan Sheet No. 16.

Waialae Inbound Frontage Road
Sta. 4+23± o/s 42.8±, Lt.
Construct New Modified Curb
Ramp Type "B". For Details,
See Plan Sheet No. 16.

Waialae Inbound Frontage Road
Sta. 3+83± o/s 34.9±, Lt.
Construct New Curb Ramp
Type "C". For Details, See
Plan Sheet No. 17.

New 5.0' Wide
A.C. Sidewalk.
For Details, See
Plan Sheet No. 8.



Sta. 0+37± and Sta. 1+25±, o/s 25.0±, Lt.
Sta. 0+37± o/s 26.0±, Rt.

Relocate Existing Joint Poles and
Guy Pole

Waialae Outbound Frontage Road
Sta. 0+05± to Sta. 3+58±, Rt.

Remove Existing A.C. Sidewalk
and Construct New 4" Concrete
Sidewalk. For Details, See Plan
Sheet No. 5.

Waialae Inbound Frontage Road
Sta. 1+58± to Sta. 2+78±, Rt.

Remove 130 L.F. Existing Chain
Link Fence and Install 120 L.F.
New Chain Link Fence and Gate

Waialae Inbound Frontage Road
Sta. 0+76± to Sta. 6+70±, Rt.

Install 600 L.F. New Strong Post
W-Beam Guardrail. For Details,
See Plan Sheet Nos. 22 & 24.

5-31-01 Relocate Exist. Highway Light Standard
at Waialae Inbound Frontage Road
@ Sta. 2+14±, Rt.

DATE REVISION

	WC-1	WB-1	WB-2	WF-1	WF-2	WF-3	WA-1
Δ	16°00'13"	7°39'49"	19°16'24"	35°52'41"	15°35'18"	15°47'42"	31°23'2"
R	597.00'	625.00'	782.78'	770.00'	885.52'	786.00'	454.75'
T	83.92'	41.64'	132.91'	212.66'	121.21'	109.03'	127.76'
C	166.21'	83.10'	262.07'	409.97'	240.18'	215.99'	245.99'
Lc	166.75'	83.16'	263.31'	414.97'	240.92'	216.68'	249.09'

Waialae Outbound
Frontage Road
Sta. 9+70±, Rt.

Modified Type "A-9P" Frame
and Grate @ exist. inlet
Inv. = 104.0±
(For Details, See Plan
Sheet Nos. 45 and 46.)

LEGEND:

Type B: 5½" A.C.

Type C: 2½" A.C.
9" ACB

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

ROADWAY PLAN

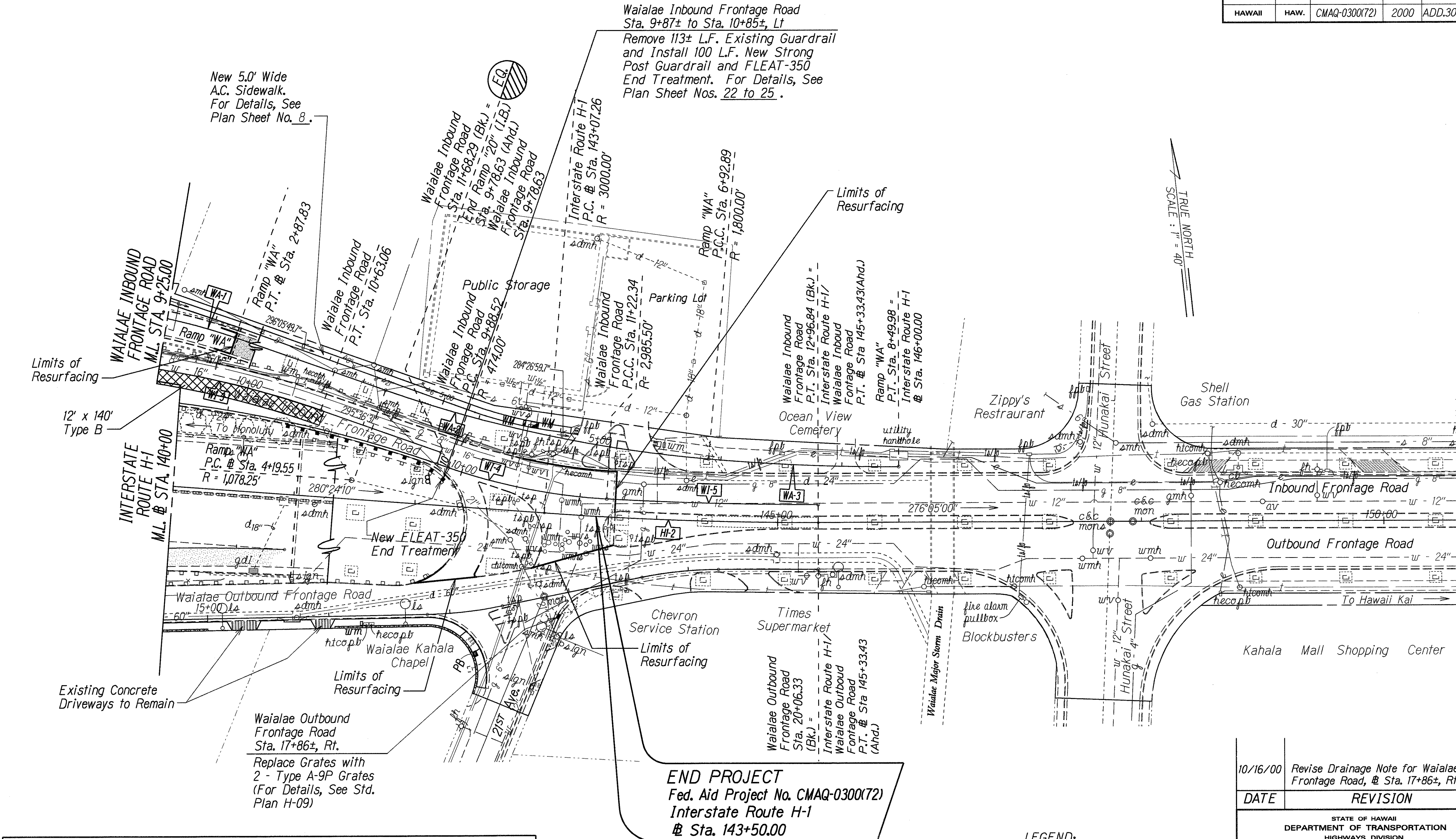
Waialae Avenue Shoulder Improvements
For Bicycle Lanes
Kealahou Avenue to Kalanianaʻole Highway
and 17th Avenue to 21st Avenue
Federal Aid Project No. CMAQ-0300(72)

Scale: 1"=40' Date: June, 2000

SHEET No. 2 OF 5 SHEETS

C.O.29

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	CMAQ-0300(72)	2000	ADD.30	60



ORIGINAL PLAN	DATE
DESIGNED BY	6/15/99
TRACED BY	
NOTED BY	
QUANTITIES BY	
CHECKED BY	

	HI-2	WA-1	WA-2	WA-3	WI-3	WI-4	WI-5
Δ	4°19'10"	3°23'22"	14°31'29"	5°00'00"	15°47'42"	16°10'33"	3°20'58"
R	3,000.00'	454.75'	1,078.25'	1,800.00'	786.00'	474.00'	2,985.50'
T	113.14'	127.76'	137.41'	78.59'	109.03'	67.36'	87.27'
C	226.12'	245.99'	272.61'	157.08'	215.99'	133.38'	174.48'
Lc	226.17'	249.09'	273.34'	157.09'	216.68'	133.82'	174.50'

LEGEND:

Type B: 5 1/2" A.C.

10/16/00

Revise Drainage Note for Waialae O.B. Frontage Road, Sta. 17+86±, Rt.

DATE

REVISION

STATE OF HAWAII

DEPARTMENT OF TRANSPORTATION

HIGHWAYS DIVISION

ROADWAY PLAN

Waialae Avenue Shoulder Improvements For Bicycle Lanes

Kealaolu Avenue to Kalanianaʻole Highway and 17th Avenue to 21st Avenue

Federal Aid Project No. CMAQ-0300(72)

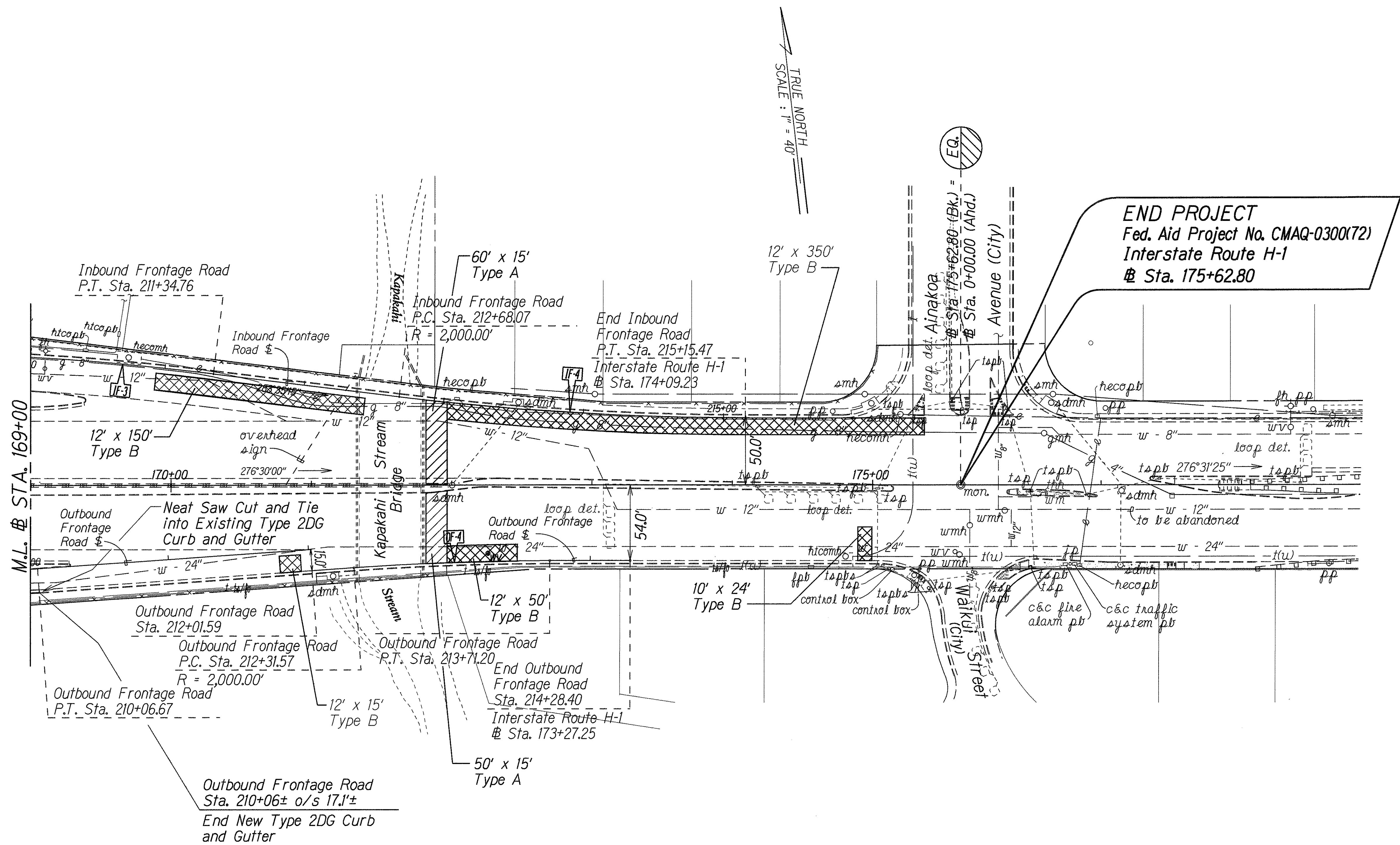
Scale: 1"=40'

Date: June, 2000

SHEET No. 3 OF 5 SHEETS

ADD.30

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	CMAQ-0300(72)	2000	32	60



SURVEY PLOTTED BY	DATE
DRAWN BY	11/28/94
CHECKED BY	
NOTED BY	
DESIGNED BY	
IN CHARGE	

	IF-3	IF-4	OF-4
Δ	7°05'15"	7°05'15"	4°00'00"
R	2,000.00'	2,000.00'	2,000.00'
T	123.86'	123.86'	69.84'
C	247.24'	247.24'	139.60'
Lc	247.40'	247.40'	139.63'

- LEGEND:
- Type A: 2 1/2" A.C. 14" ACB
 - Type B: 5 1/2" A.C. Superpave

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 and 17th Avenue to 21st Avenue
 Federal Aid Project No. CMAQ-0300(72)

Scale: 1"=40' Date: June, 2000

SHEET No. 5 OF 5 SHEETS