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Sept. 2012
DATE

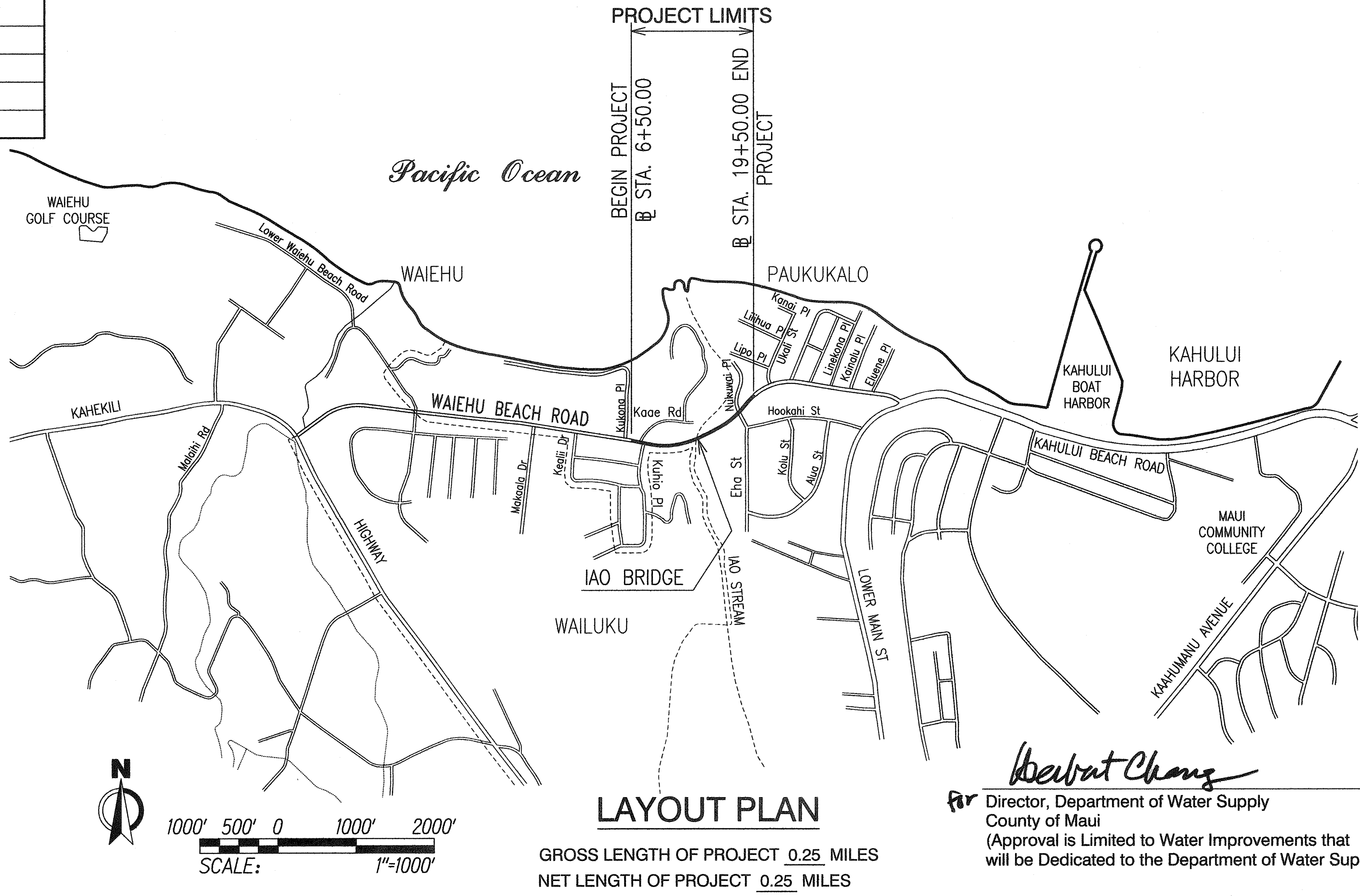
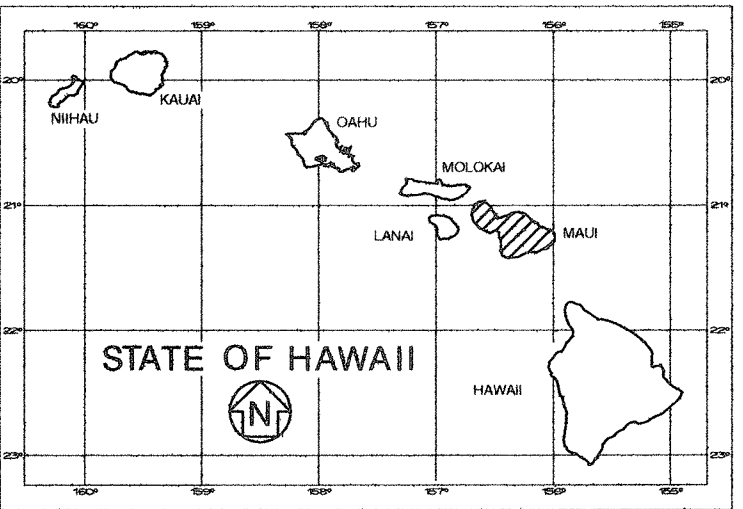
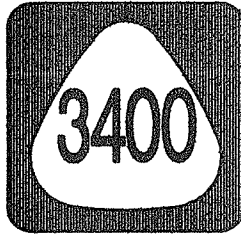
692-7587
PHONE

HWY-DD
MANAGED BY

WILSON OKAMOTO CORPORATION
DESIGNED BY

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION
HONOLULU, HAWAII
PLANS FOR
WAIEHU BEACH ROAD
REHABILITATION OF IAO STREAM BRIDGE
FEDERAL AID PROJECT NO. BR-STP-3400(5)
DISTRICT OF WAILUKU
ISLAND OF MAUI

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	BR-STP-3400(5)	2012	ADD. 1	108

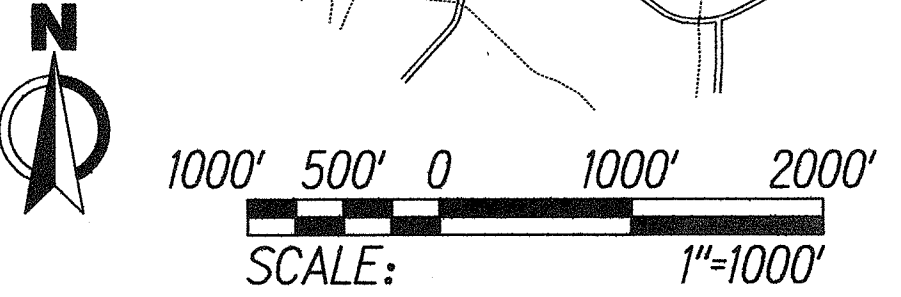


— FEDERAL AID PROJECTS PREVIOUSLY CONSTRUCTED OR UNDER CONSTRUCTION

MILE POST 1.54 TO MILE POST 1.79

DESIGN DESIGNATION	
CURRENT ADT (2006)	18,300
DESIGN ADT (2026)	26,800
DHV	2,300
D	55/45
T	30.0%
T ₂₄	3.5%
V	45 MPH

LOAD RATING	
HL-93	INVENTORY
HL-93	OPERATING



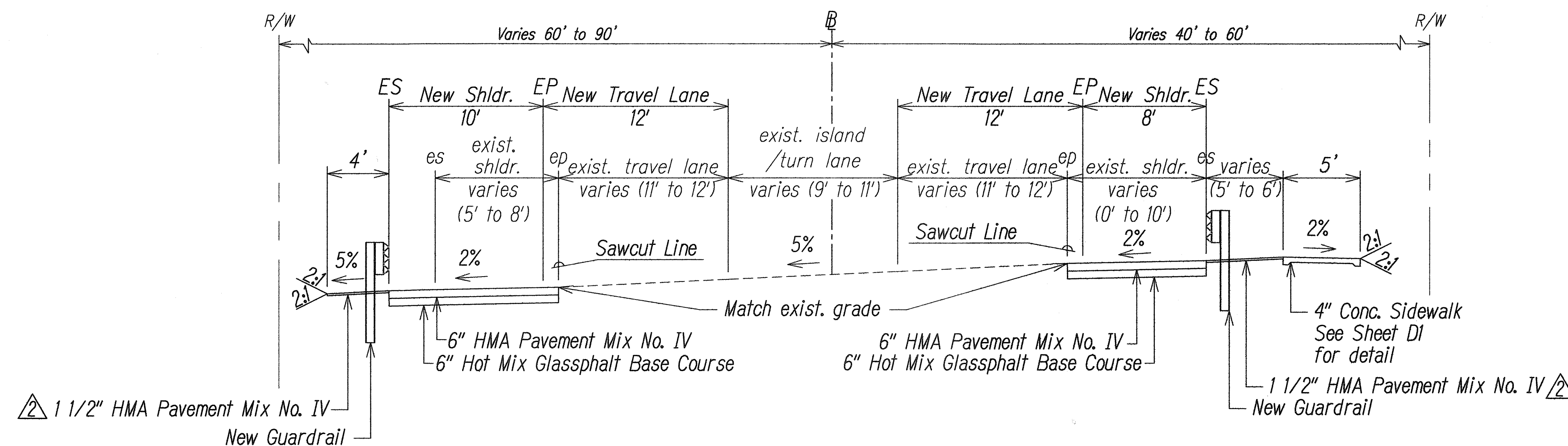
LAYOUT PLAN
GROSS LENGTH OF PROJECT 0.25 MILES
NET LENGTH OF PROJECT 0.25 MILES

for *Heibat Chang*
Director, Department of Water Supply
County of Maui
(Approval is Limited to Water Improvements that will be Dedicated to the Department of Water Supply)

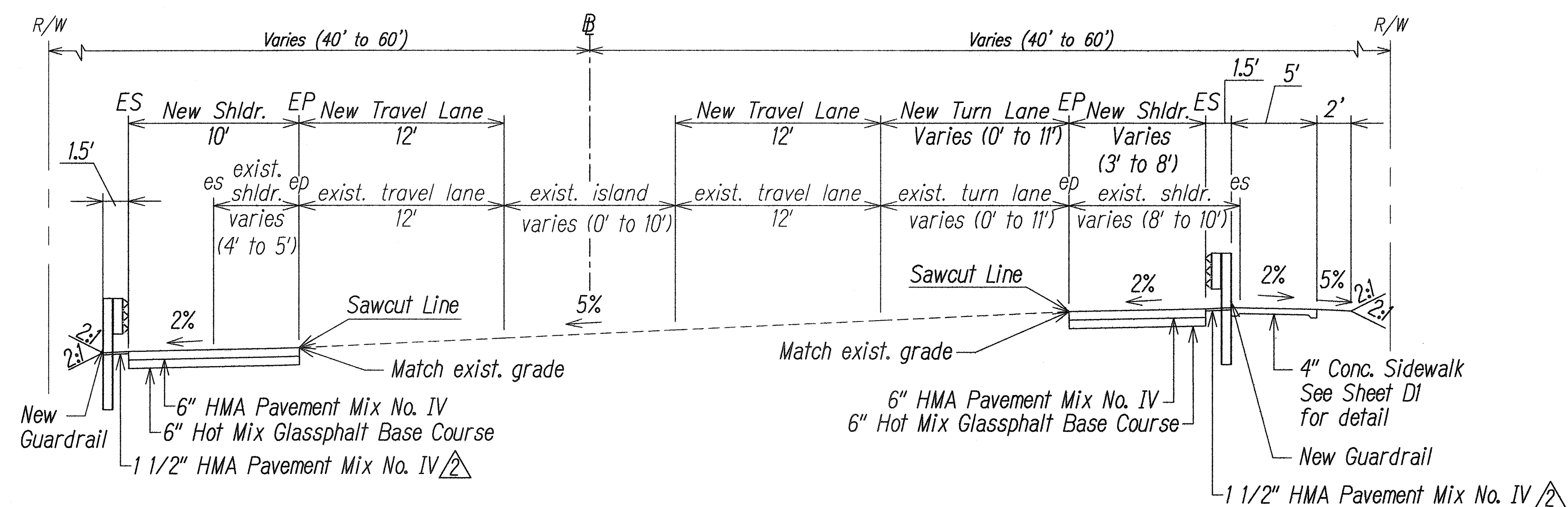
9/26/2012
Date

1/30/13	Revised Sheet Number and Grid Lines for Atlas
DATE	REVISION
DEPARTMENT OF TRANSPORTATION STATE OF HAWAII	
APPROVED:	
<i>Dir. of Transportation</i>	10/02/12
DIR. OF TRANSPORTATION	DATE

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	BR-STP-3400(5)	2012	ADD.8	108

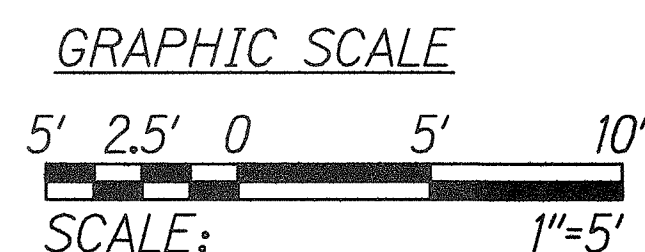


Sta. 7+33.11 to Sta. 13+21.86



Sta. 15+44.43 to Sta. 17+82.76

NOTE:
1. For location of new guardrail, see roadway plan sheet RP1 to RP3.



TYPICAL ROADWAY SECTIONS

Scale: 1"=5'

DATE	REVISION
1/30/13	Revise pavement thickness at guardrail.

STATE OF HAWAII

DEPARTMENT OF TRANSPORTATION

HIGHWAYS DIVISION

TYPICAL ROADWAY SECTIONS

WAIEHU BEACH ROAD

REHABILITATION OF IAO STREAM BRIDGE

Federal Aid Project No. BR-STP-3400(5)

Date: October 2012

SHEET No. TS1 OF 3 SHEETS

ADD. 8

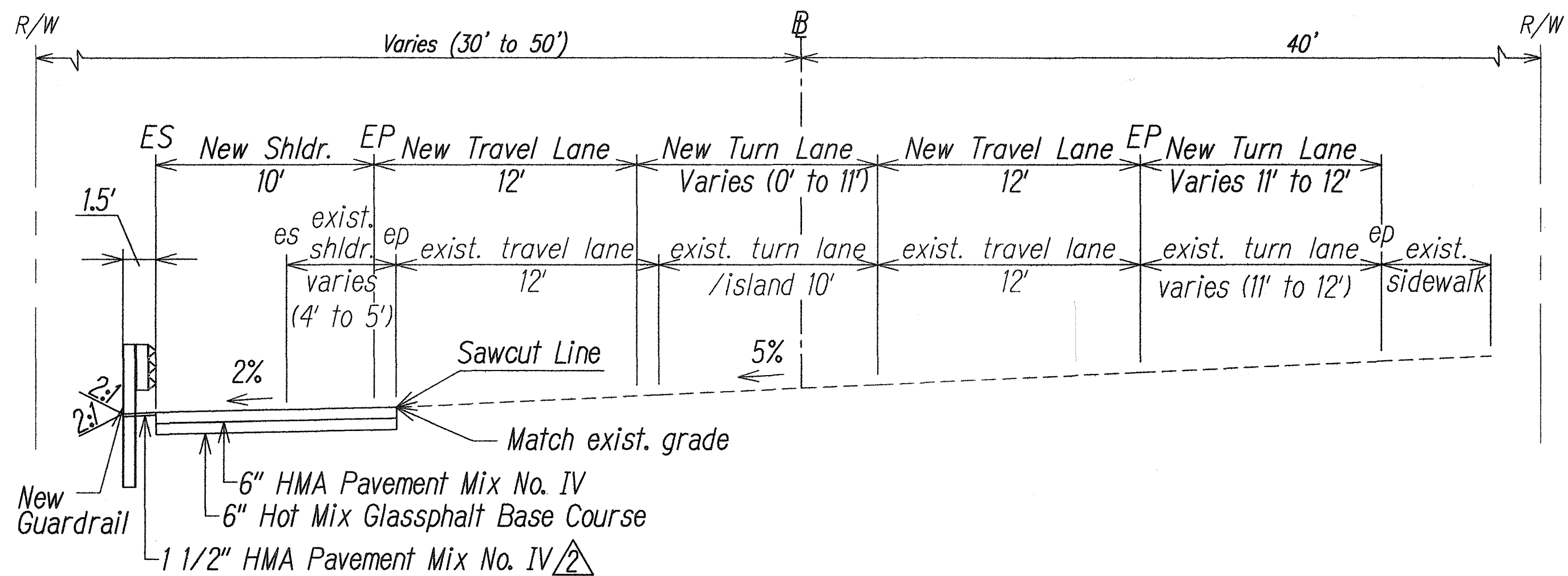
SURVEY PLOTTED BY	DATE
DRAWN BY	
DESIGNED BY	
QUANTITIES BY	
CHECKED BY	
ORIGINAL PLAN	
NOTE BOOK	
No.	

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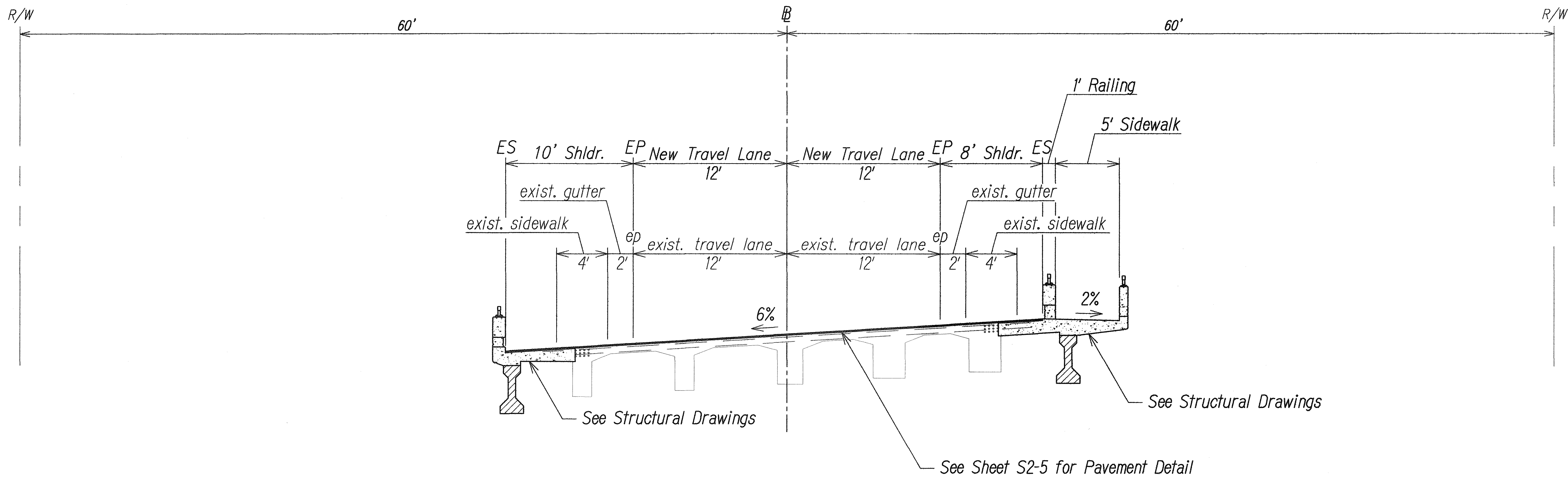


THIS WORK WAS PREPARED BY ME
OR UNDER MY SUPERVISION.
Richard T. Hamada
WILSON OKAMOTO CORPORATION LIC. EXP. DATE

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	BR-STP-3400(5)	2012	ADD.9	108



Sta. 17+82.76 to Sta. 19+12.36



Sta. 13+45.00 to Sta. 15+21.00

NOTE:

1. For location of new guardrail, see roadway plan sheet RP1 to RP3.

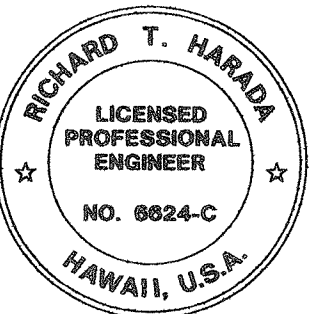
GRAPHIC SCALE



TYPICAL ROADWAY SECTIONS

Scale: 1"=5'

1/30/13	Revise pavement thickness at guardrail.
DATE	REVISION



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Richard T. Harada
WILSON OKAMOTO CORPORATION L.C. EXP. DATE

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

TYPICAL ROADWAY SECTIONS

**WAIIEHU BEACH ROAD
REHABILITATION OF IAO STREAM BRIDGE
Federal Aid Project No. BR-STP-3400(5)**

Date: October 2012

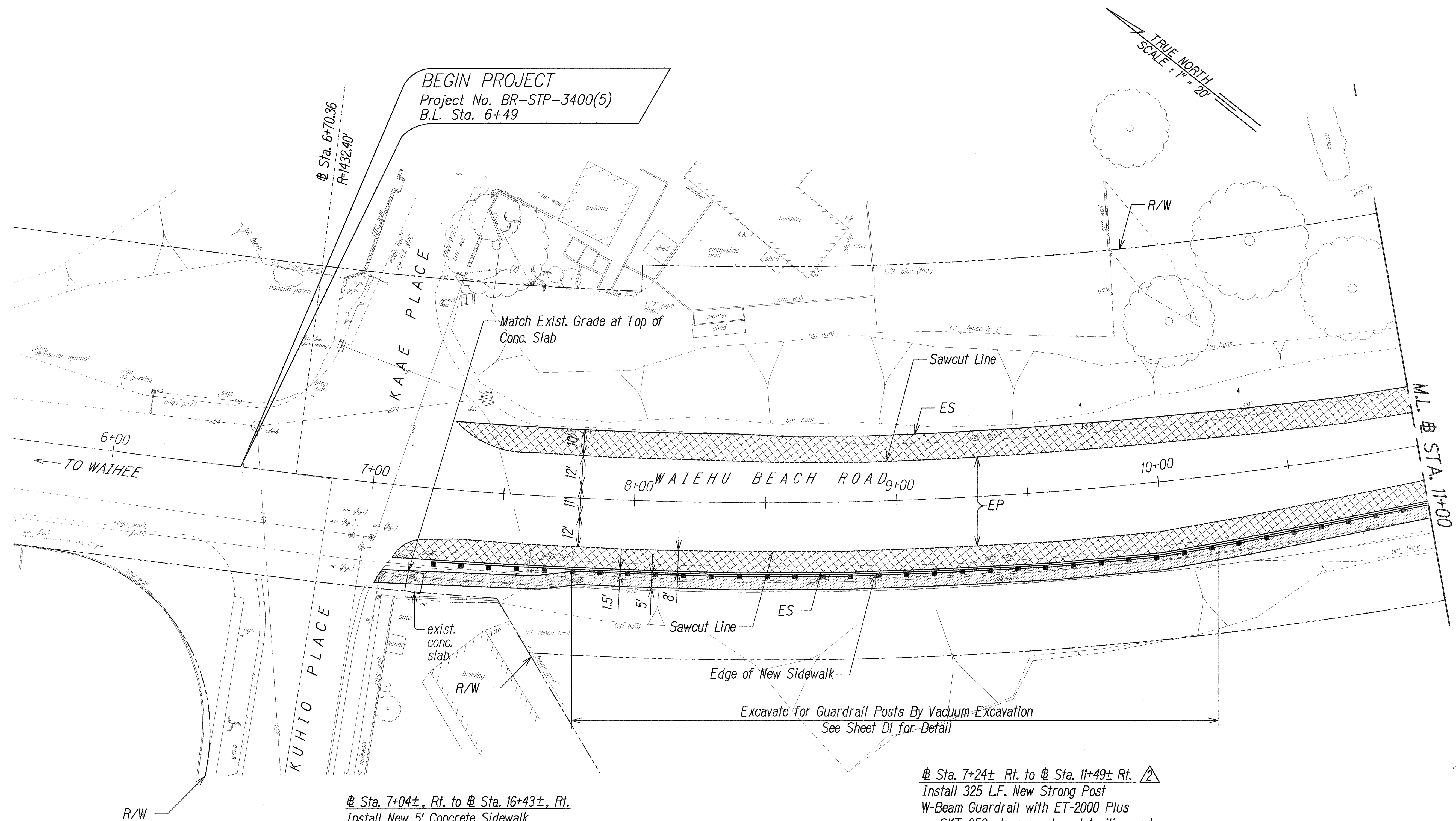
SHEET No. TS2 OF 3 SHEETS

ADD. 9

ORIGINAL PLAN	DATE
SURVEY EXISTED BY	
DESIGNED BY	
TRACED BY	
QUANTITIES BY	
CHECKED BY	
No.	

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FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	BR-STP-3400(5)	2012	ADD. 13	108



TRUE NORTH
SCALE: 1" = 20'

BEGIN PROJECT
Project No. BR-STP-3400(5)
B.L. Sta. 6+49

KAAE PLACE

KUHIO PLACE

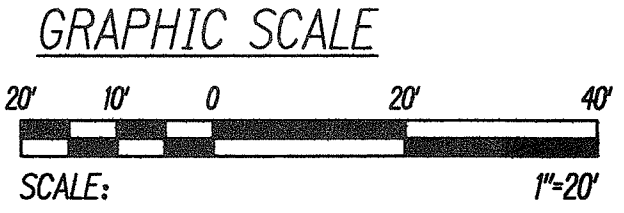
M.L. @ STA. 11+00

TO WAIHEE

ROADWAY PLAN

SCALE: 1"=20'

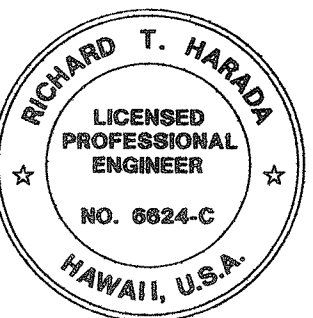
- LEGEND**
- New HMA
 - New Concrete Sidewalk



Sta. 7+04±, Rt. to Sta. 16+43±, Rt.
Install New 5' Concrete Sidewalk,
See Sheet D1 for Sidewalk Detail.
Install Detectable Warning at Sta. 7+04±,
See Sheet D2 for Detail.

Sta. 7+24± Rt. to Sta. 11+49± Rt.
Install 325 L.F. New Strong Post
W-Beam Guardrail with ET-2000 Plus
or SKT 350 at approach and trailing end,
and New Double W-Beam End Section. See
Sheet GR5, GR8 and GR9 for Detail.

Excavate for Guardrail Posts By Vacuum-Excavation
See Sheet D1 for Detail



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OR UNDER MY SUPERVISION.
Richard T. Harada
APRIL 30, 2014
WILSON OKAMOTO CORPORATION LIC. EXP. DATE

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION
ROADWAY PLAN
WAIIEHU BEACH ROAD
REHABILITATION OF IAO STREAM BRIDGE
Federal Aid Project No. BR-STP-3400(5)
Date: October 2012

DATE: 1/30/13
REVISION: Add "or SKT 350" to guardrail callout.

SHEET No. RP1 OF 5 SHEETS

ORIGINAL PLAN	DATE
SURVEY PLATTED BY	
DESIGNED BY	
NOTED BY	
CHECKED BY	
NO.	

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FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	BR-STP-3400(5)	2012	ADD.14	108

LEGEND

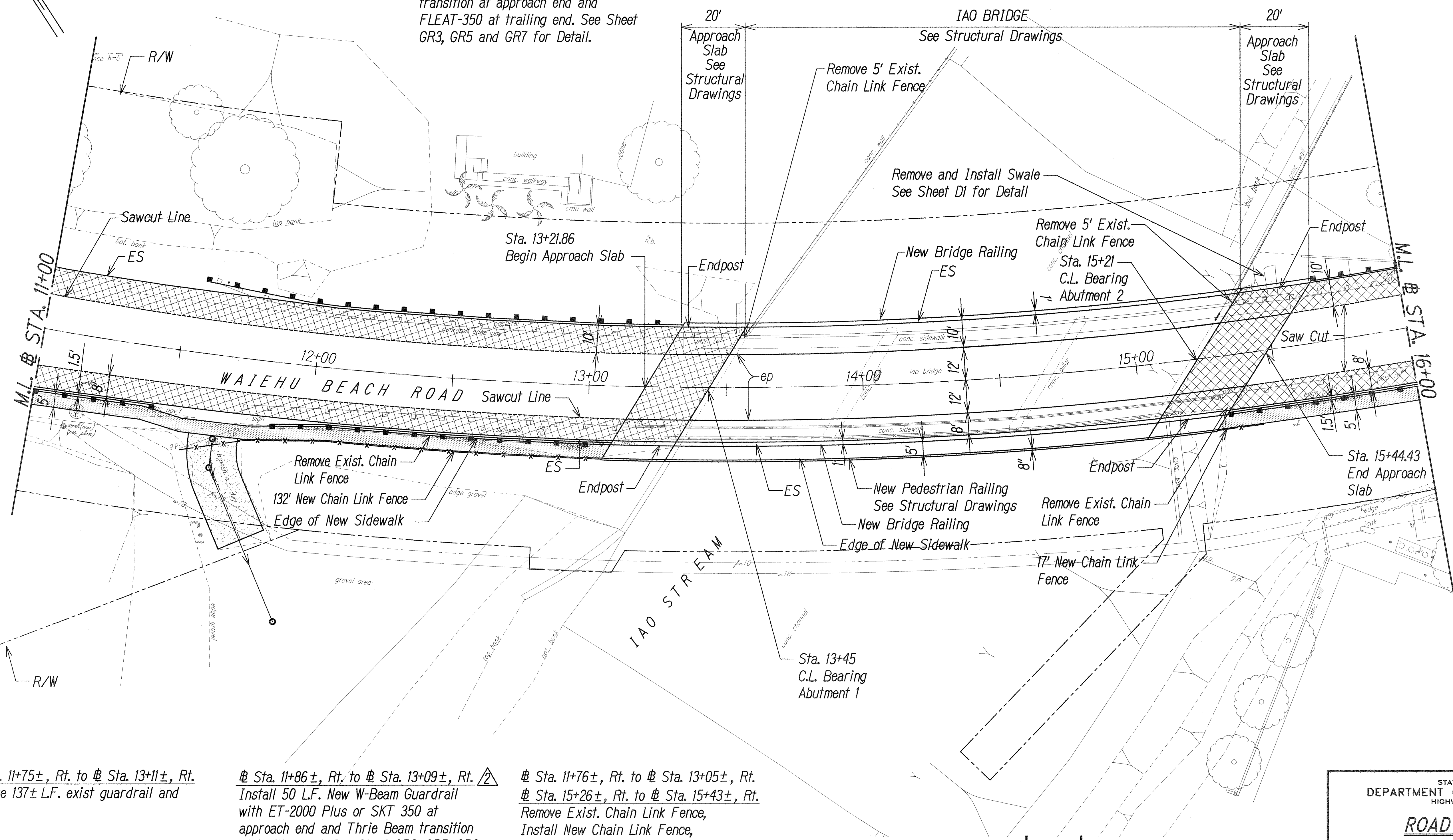
New HMA

New Concrete Sidewalk

TRUE NORTH
SCALE: 1"=20'

Sta. 11+59±, Lt. to Sta. 13+50±, Lt.
Remove 188± L.F. exist guardrail and posts.

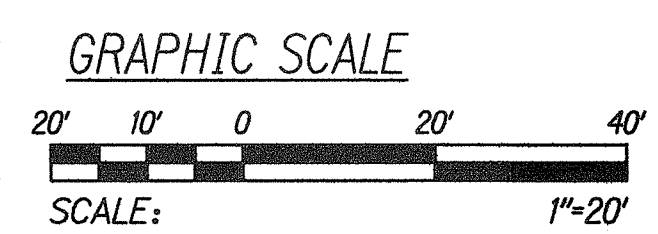
Sta. 11+56±, Lt. to Sta. 13+34±, Lt.
Install 112.5 L.F. New Strong Post W-Beam Guardrail with Thrie Beam transition at approach end and FLEAT-350 at trailing end. See Sheet GR3, GR5 and GR7 for Detail.



Sta. 11+75±, Rt. to Sta. 13+11±, Rt.
Remove 137± L.F. exist guardrail and posts.

Sta. 11+86±, Rt. to Sta. 13+09±, Rt.
Install 50 L.F. New W-Beam Guardrail with ET-2000 Plus or SKT 350 at approach end and Thrie Beam transition at trailing end. See Sheet GR3, GR5, GR8 and GR9 for Detail.

Sta. 11+76±, Rt. to Sta. 13+05±, Rt.
Sta. 15+26±, Rt. to Sta. 15+43±, Rt.
Remove Exist. Chain Link Fence, Install New Chain Link Fence, See Sheet DI for Detail.



NOTE:
1. Removal of exist. guardrail and chain link fence shall be considered incidental to new guardrail and new chain link fence.

ROADWAY PLAN SCALE: 1"=20'

1/30/13	Add "or SKT 350" to guardrail callout.
DATE	REVISION

STATE OF HAWAII

DEPARTMENT OF TRANSPORTATION

HIGHWAYS DIVISION

ROADWAY PLAN

WAIEHU BEACH ROAD

REHABILITATION OF IAO STREAM BRIDGE

Federal Aid Project No. BR-STP-3400(5)

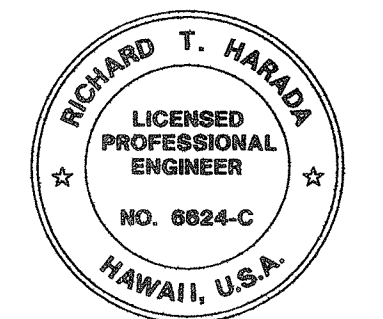
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SHEET No. RP2 OF 5 SHEETS

ADD. 14

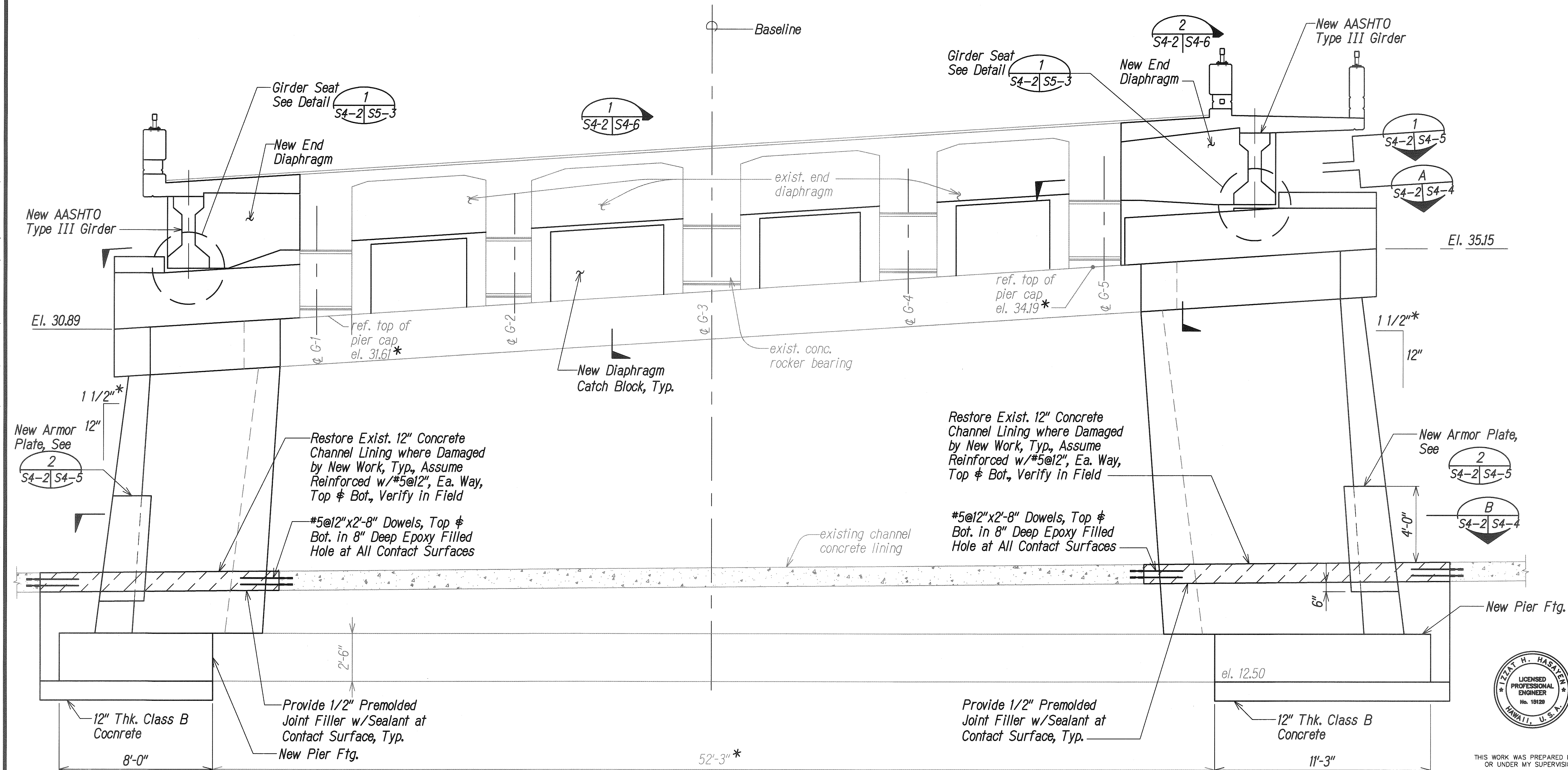
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Richard T. Harada
APR 30, 2014
WILSON OKAMOTO CORPORATION LIC. EXP. DATE

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	BR-STP-3400(5)	2012	92	108

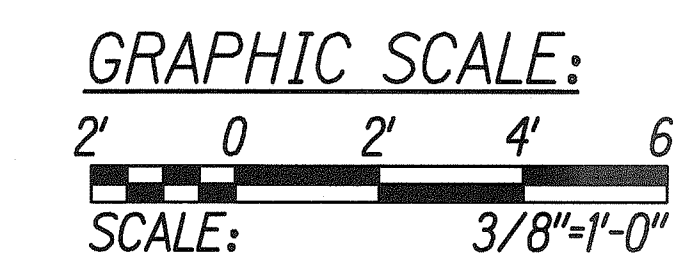


ELEVATION PIER NO. 2
Scale: 3/8"=1'-0"

**All Existing Structure Dimensions, Stationing, and Elevations Shown on the Drawings Have been Obtained from the Following Documents. All Dimensions and Elevations Related to the Existing Structure Shall be Measured by the Contractor in the Field Prior to Fabrication and Construction of New Work.*

- Territory of Hawaii Territorial Highway Department, R. Kawamura "Iao Bridge, Waiehu Beach Road", November 1952.

Note:
For Limits of Demolition of
Superstructure see Sheet S2-5.



STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

PIER NO. 2
ELEVATION

WAIIEHU BEACH ROAD
REHABILITATION OF IAO STREAM BRIDGE
Federal Aid Project No. BR-STP-3400(X)5

SHEET No. S4-2 OF 5 SHEETS

