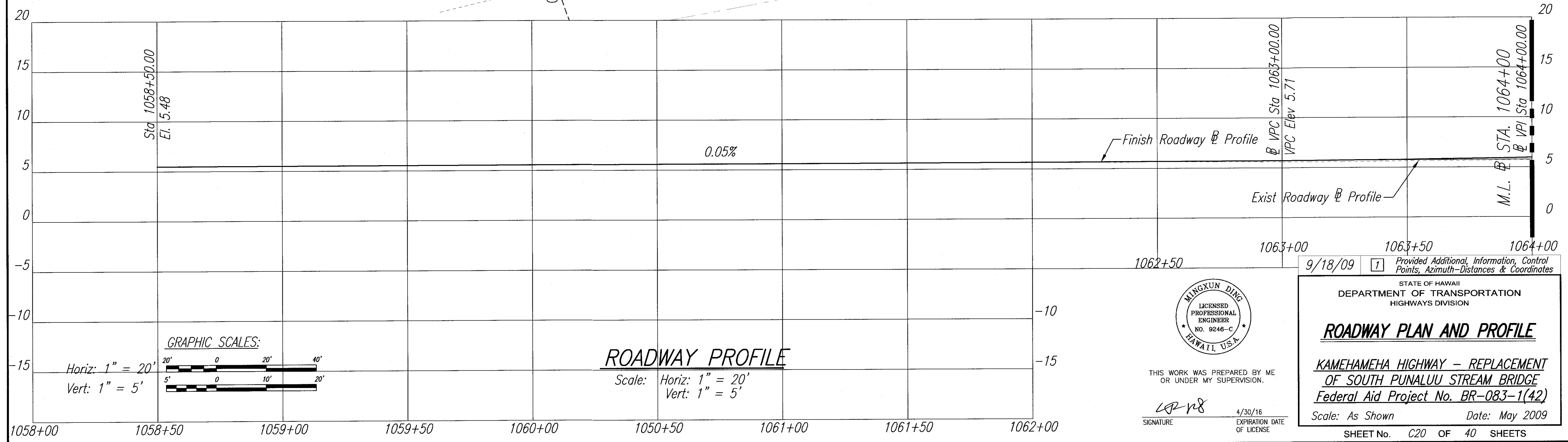
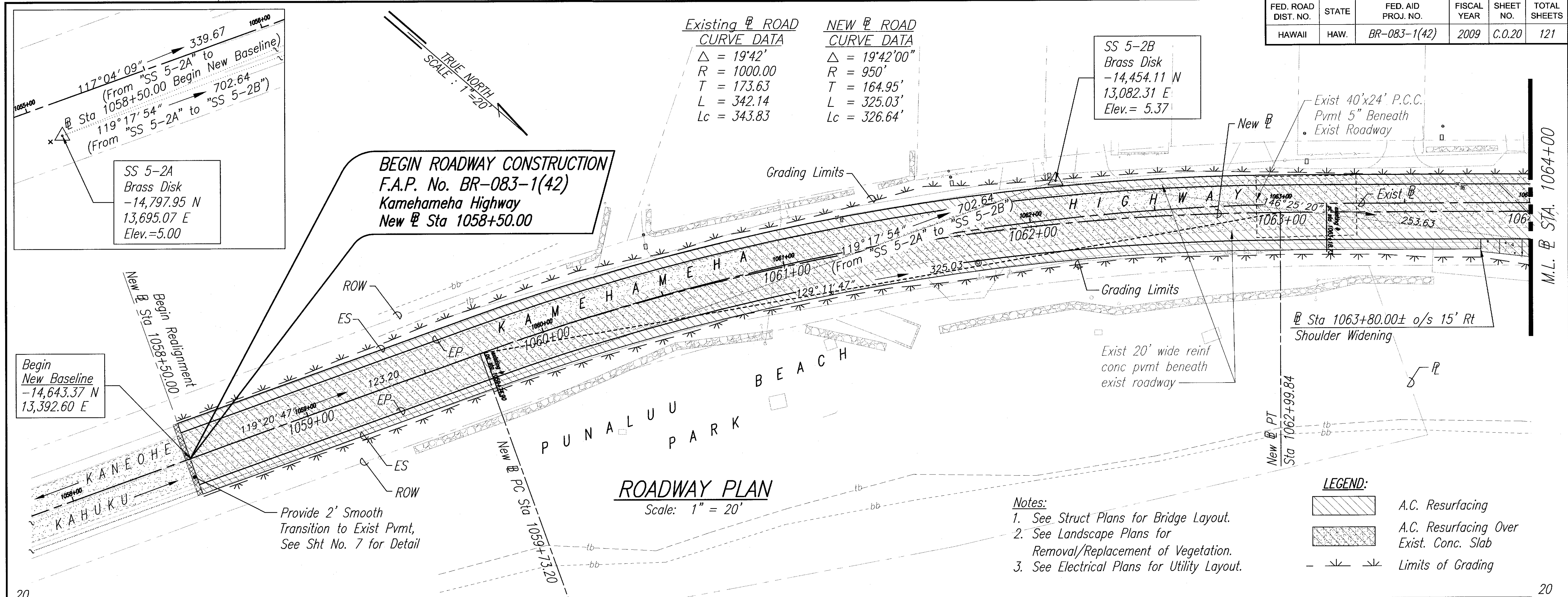
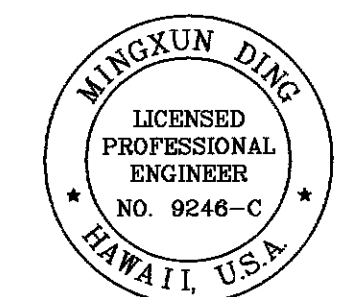
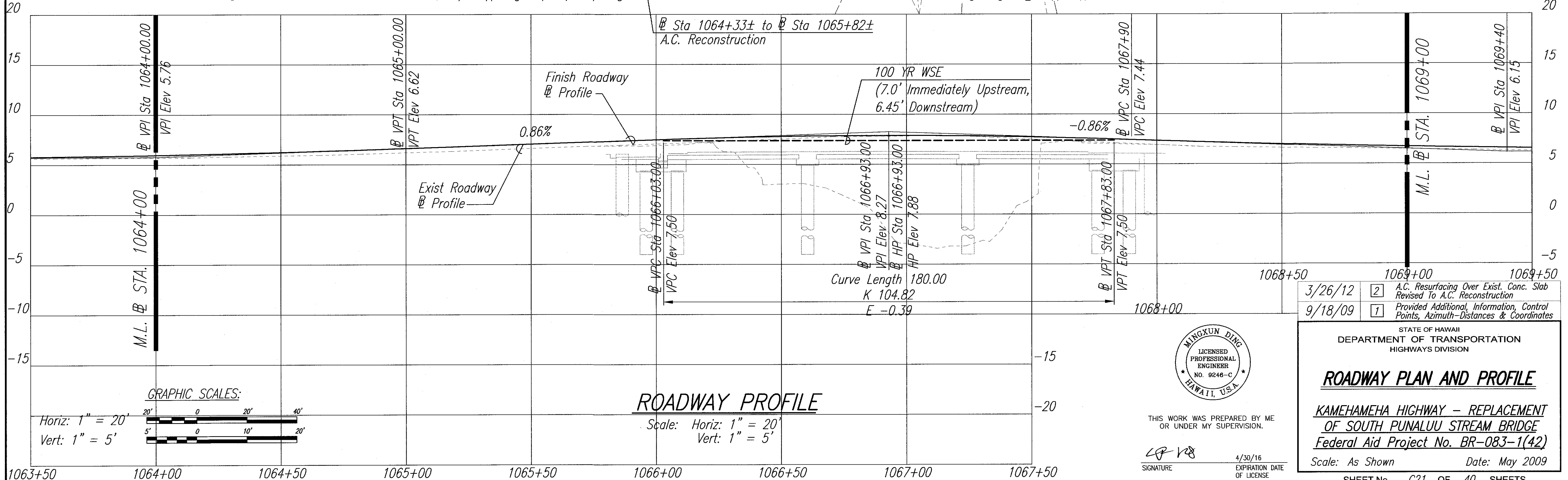
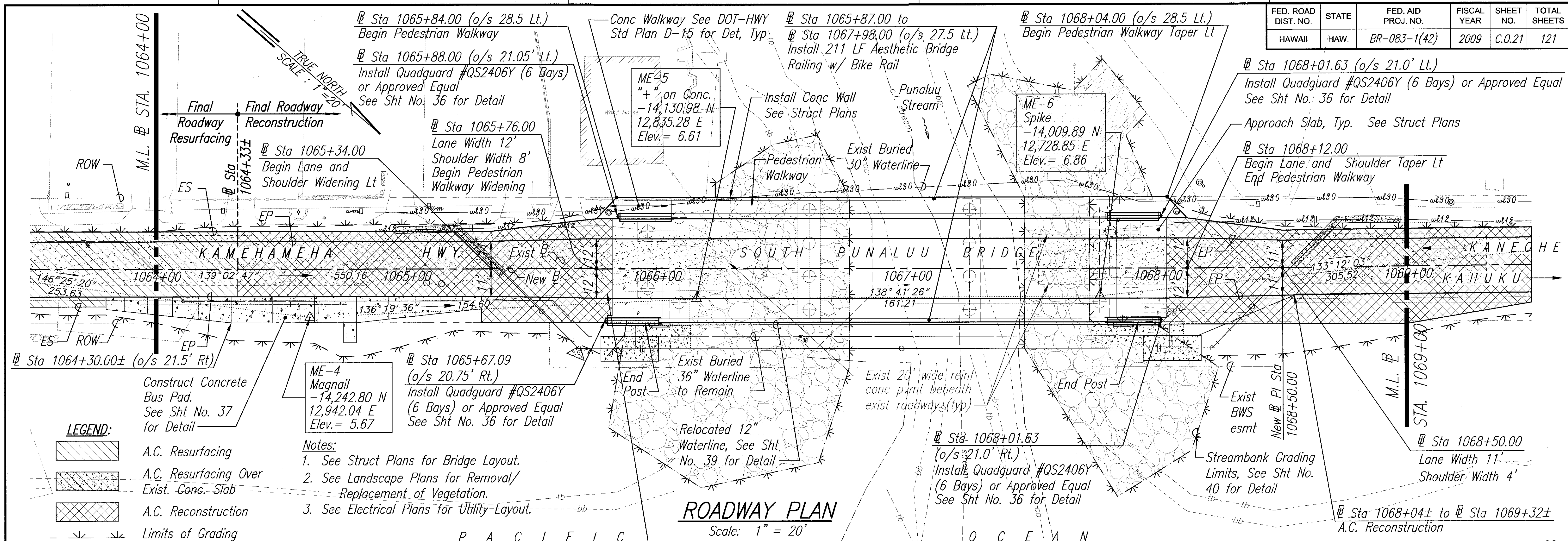


FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	BR-083-1(42)	2009	C.O.20	121



FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	BR-083-1(42)	2009	C.O.21	121



THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION.

SIGNATURE

4/30/16
EXPIRATION DATE OF LICENSE

3/26/12	2	A.C. Resurfacing Over Exist. Conc. Slab Revised To A.C. Reconstruction
9/18/09	1	Provided Additional Information, Control Points, Azimuth-Distances & Coordinates

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

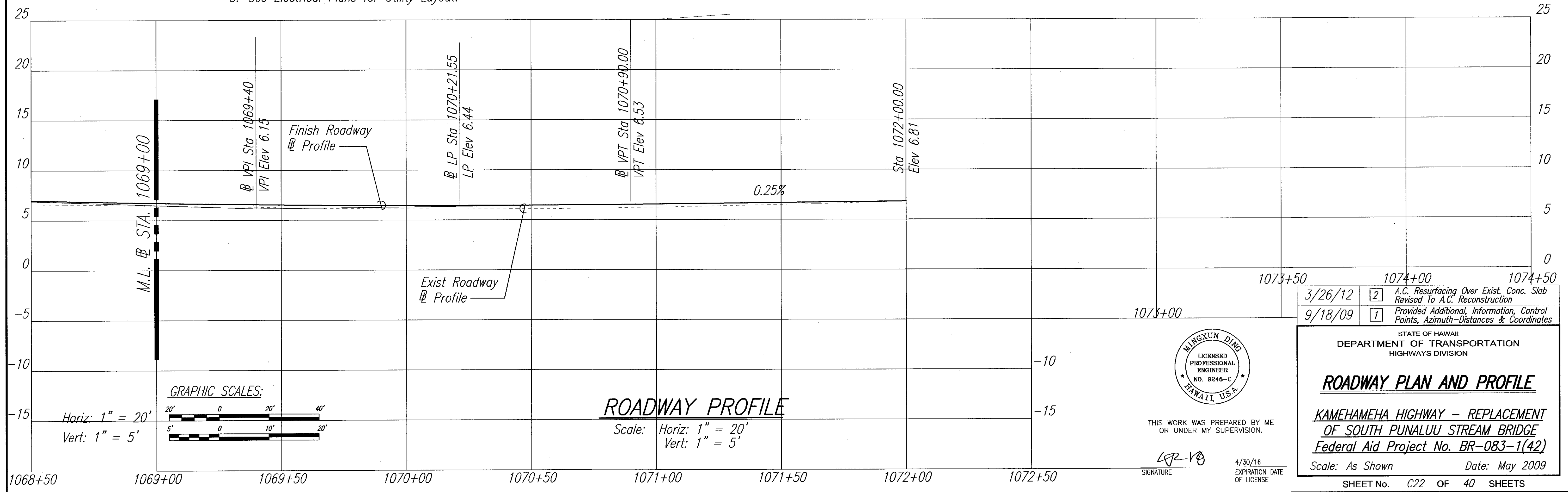
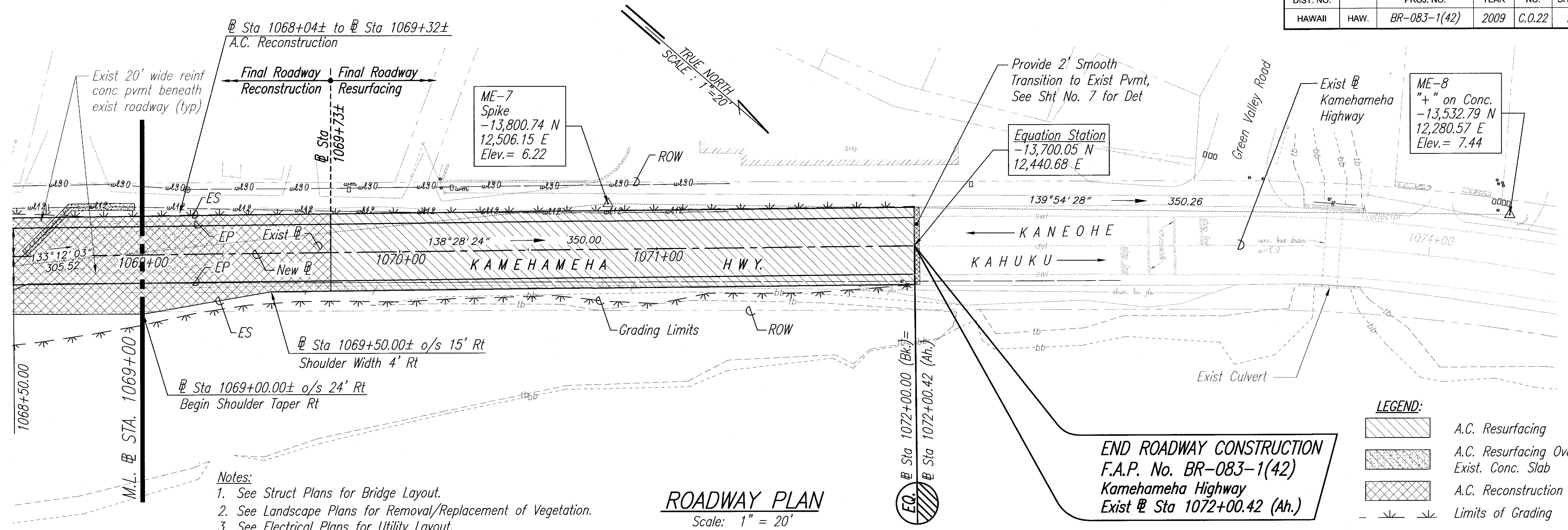
ROADWAY PLAN AND PROFILE

KAMEHAMEHA HIGHWAY - REPLACEMENT OF SOUTH PUNALUU STREAM BRIDGE
Federal Aid Project No. BR-083-1(42)

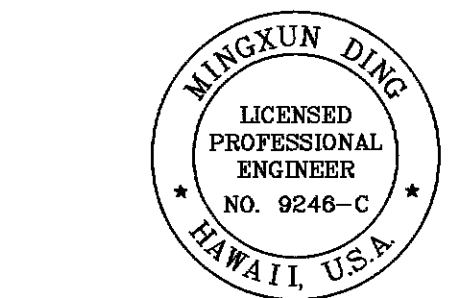
Scale: As Shown Date: May 2009

SHEET No. C21 OF 40 SHEETS

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	BR-083-1(42)	2009	C.O.22	121



DESIGNED BY	DATE
NOTED BY	
CHECKED BY	
NO.	



THIS WORK WAS PREPARED BY ME
OR UNDER MY SUPERVISION.

SIGNATURE

EXPIRATION DATE
OF LICENSE

3/26/12	2	A.C. Resurfacing Over Exist. Conc. Slab Revised To A.C. Reconstruction
9/18/09	1	Provided Additional, Information, Control Points, Azimuth-Distances & Coordinates

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

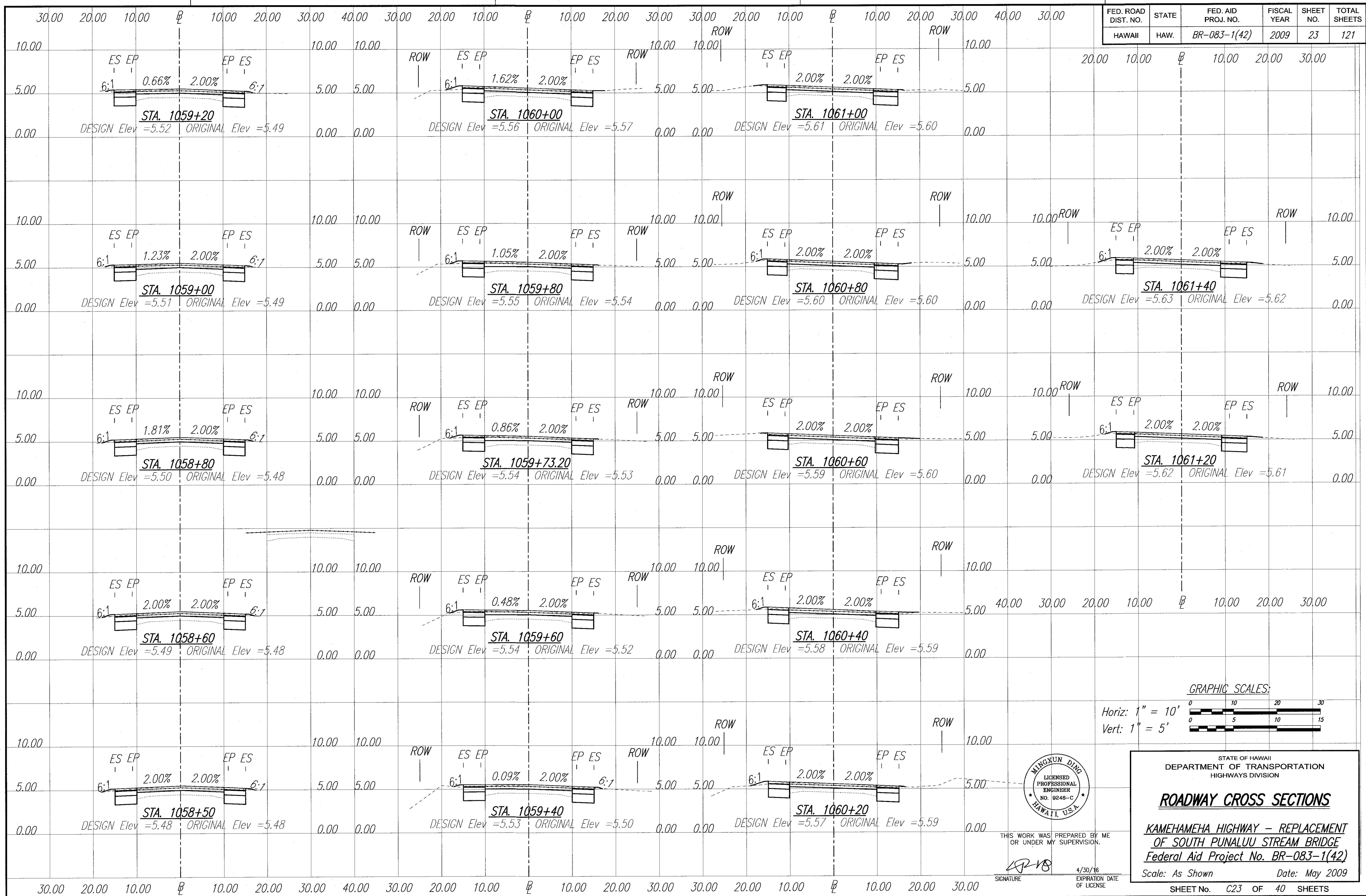
ROADWAY PLAN AND PROFILE

**KAMEHAMEHA HIGHWAY - REPLACEMENT
OF SOUTH PUNALUU STREAM BRIDGE**
Federal Aid Project No. BR-083-1(42)

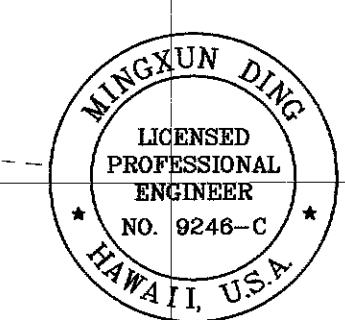
Scale: As Shown Date: May 2009

SHEET No. C22 OF 40 SHEETS

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	BR-083-1(42)	2009	23	121

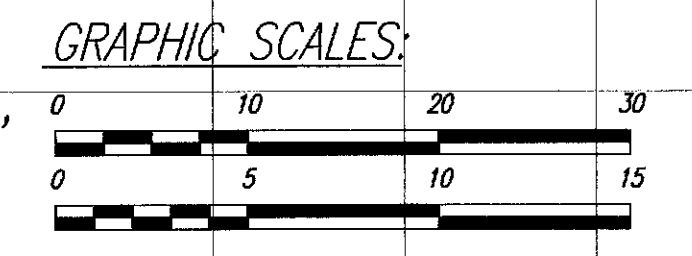


SURVEY PLOTTED BY _____ DATE _____
 DESIGNED BY _____
 NOTE BOOK _____
 QUANTITIES BY _____
 CHECKED BY _____
 No. _____



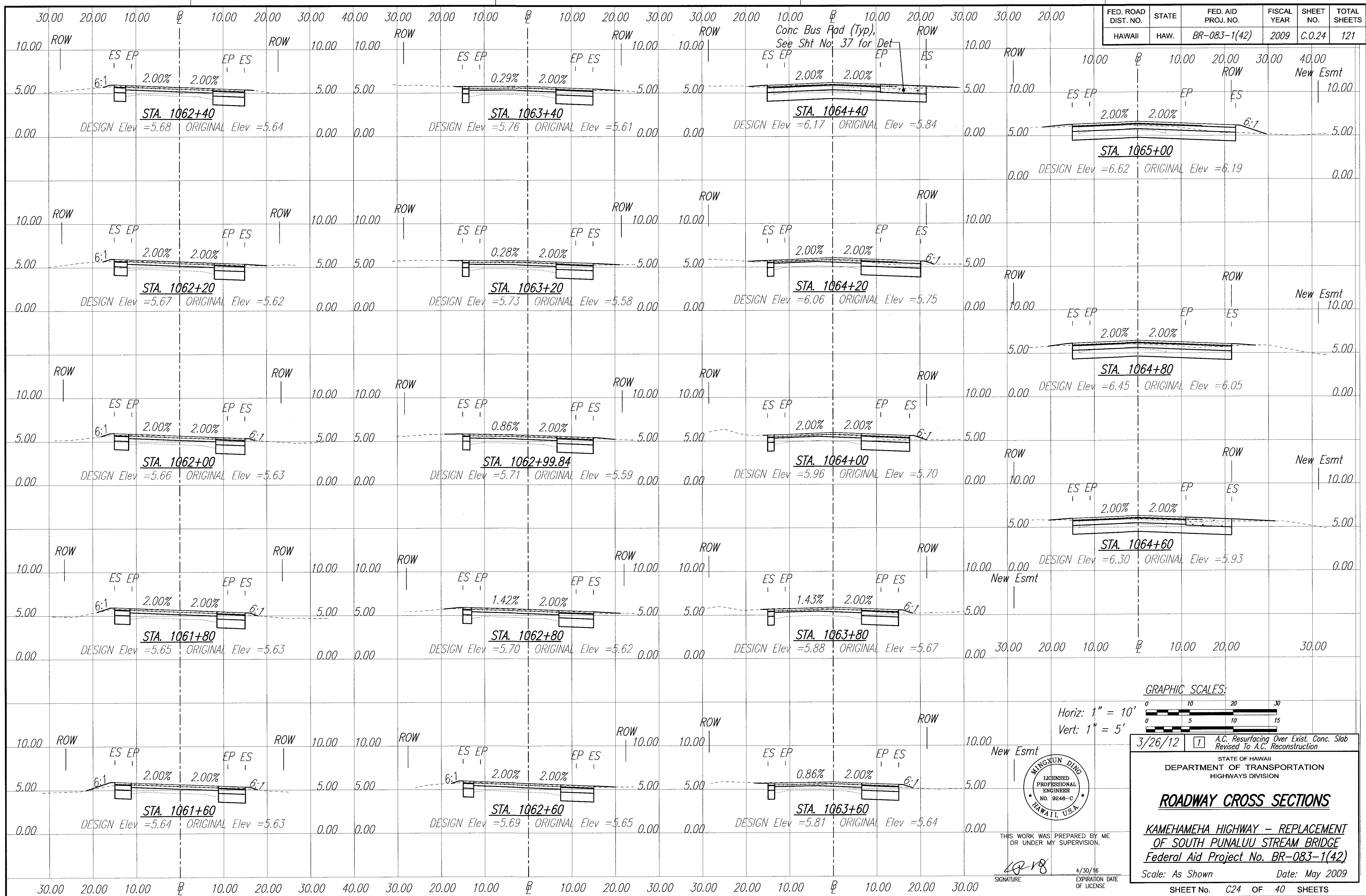
THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION.

SIGNATURE: *[Signature]*
 EXPIRATION DATE OF LICENSE: 4/30/16



STATE OF HAWAII
 DEPARTMENT OF TRANSPORTATION
 HIGHWAYS DIVISION
ROADWAY CROSS SECTIONS
 KAMEHAMEHA HIGHWAY - REPLACEMENT
 OF SOUTH PUNALUU STREAM BRIDGE
 Federal Aid Project No. BR-083-1(42)
 Scale: As Shown Date: May 2009
 SHEET No. C23 OF 40 SHEETS

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	BR-083-1(42)	2009	C.O.24	121



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

GRAPHIC SCALES:
 Horiz: 1" = 10'
 Vert: 1" = 5'

3/26/12 1 A.C. Resurfacing Over Exist. Conc. Slab
 Revised To A.C. Reconstruction

STATE OF HAWAII
 DEPARTMENT OF TRANSPORTATION
 HIGHWAYS DIVISION

ROADWAY CROSS SECTIONS
KAMEHAMEHA HIGHWAY - REPLACEMENT
OF SOUTH PUNALUU STREAM BRIDGE
Federal Aid Project No. BR-083-1(42)

Scale: As Shown Date: May 2009

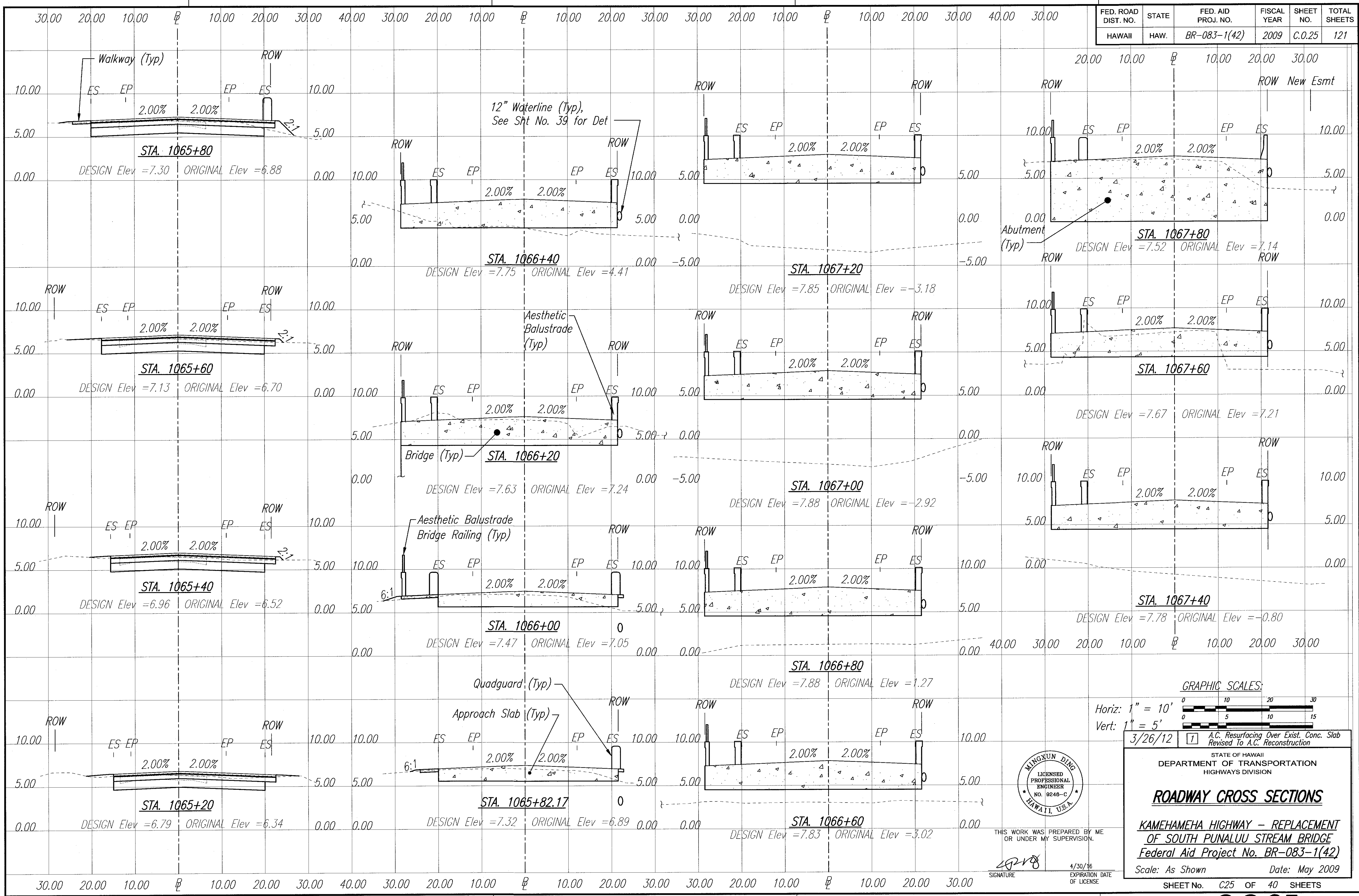
SHEET No. C24 OF 40 SHEETS

MINGXUN DING
 LICENSED PROFESSIONAL ENGINEER
 No. 9246-C
 HAWAII, U.S.A.

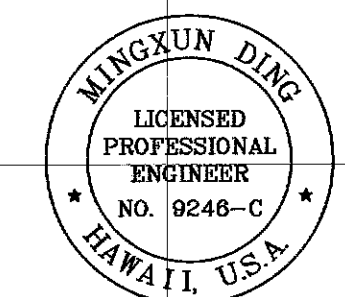
THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION.

4/30/16 EXPIRATION DATE OF LICENSE

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	BR-083-1(42)	2009	C.O.25	121



DATE: _____
 SURVEY PLOTTED BY: _____
 DRAWN BY: _____
 DESIGNED BY: _____
 CHECKED BY: _____
 NO. _____

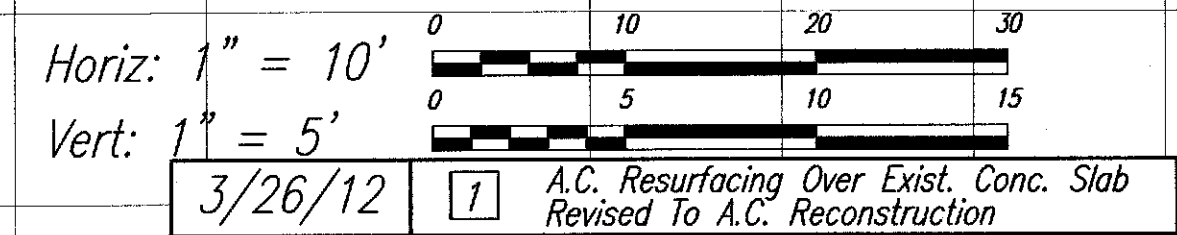


THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION.

SIGNATURE

EXPIRATION DATE OF LICENSE

GRAPHIC SCALES:



STATE OF HAWAII
 DEPARTMENT OF TRANSPORTATION
 HIGHWAYS DIVISION

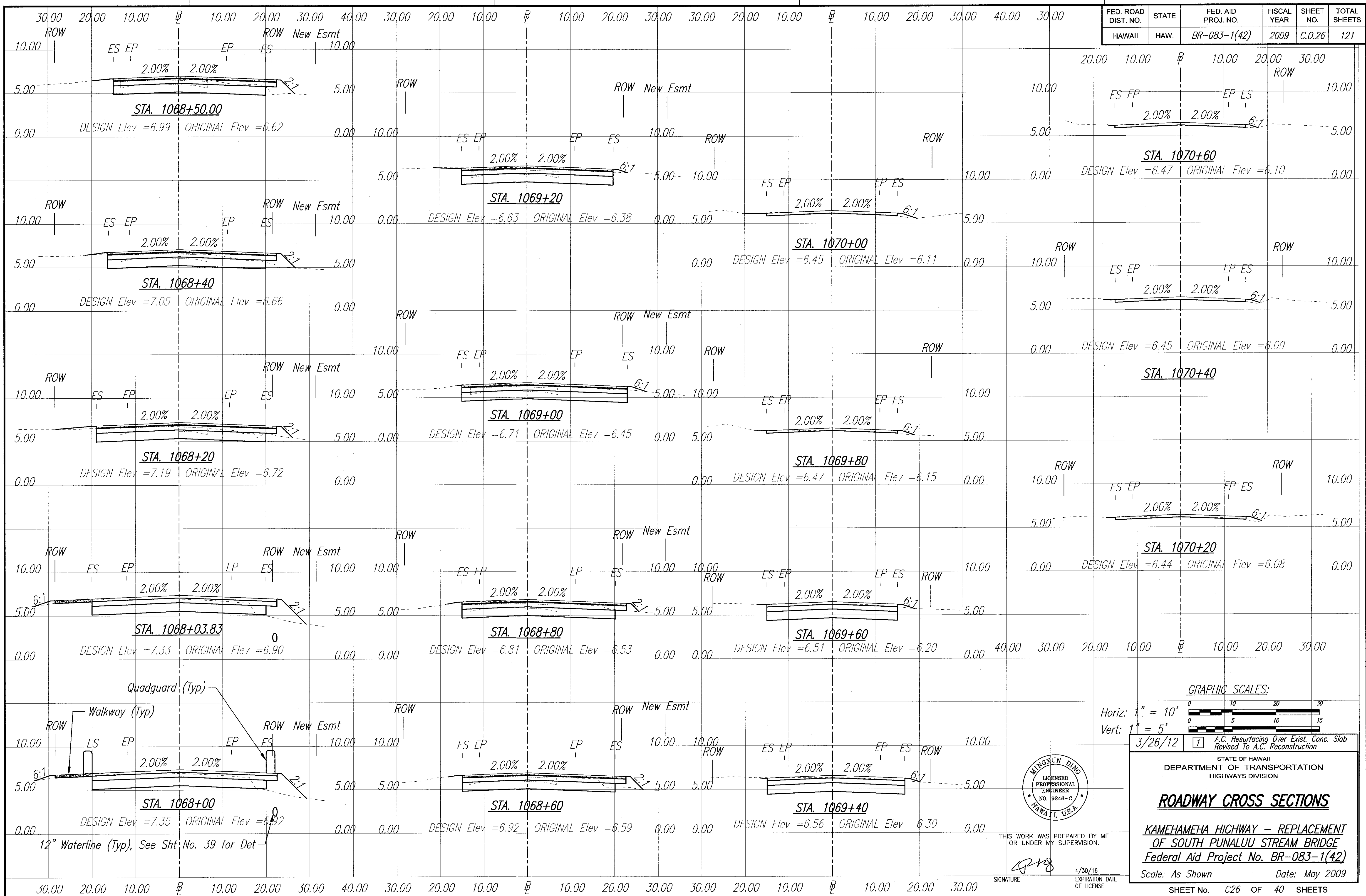
ROADWAY CROSS SECTIONS

KAMEHAMEHA HIGHWAY - REPLACEMENT OF SOUTH PUNALUU STREAM BRIDGE
 Federal Aid Project No. BR-083-1(42)

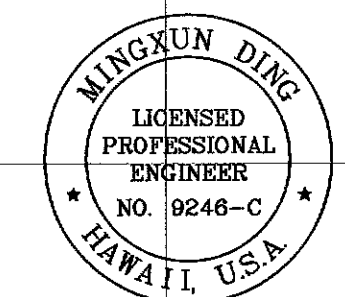
Scale: As Shown Date: May 2009

SHEET No. C25 OF 40 SHEETS

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	BR-083-1(42)	2009	C.O.26	121



SURVEY PLOTTED BY: _____ DATE: _____
 DRAWN BY: _____
 DESIGNED BY: _____
 CHECKED BY: _____
 No. _____



THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION.

SIGNATURE: *[Signature]*
 EXPIRATION DATE OF LICENSE: 4/30/16

GRAPHIC SCALES:

Horiz: 1" = 10'
 Vert: 1" = 5'

3/26/12
 1 A.C. Resurfacing Over Exist. Conc. Slab
 Revised To A.C. Reconstruction

STATE OF HAWAII
 DEPARTMENT OF TRANSPORTATION
 HIGHWAYS DIVISION

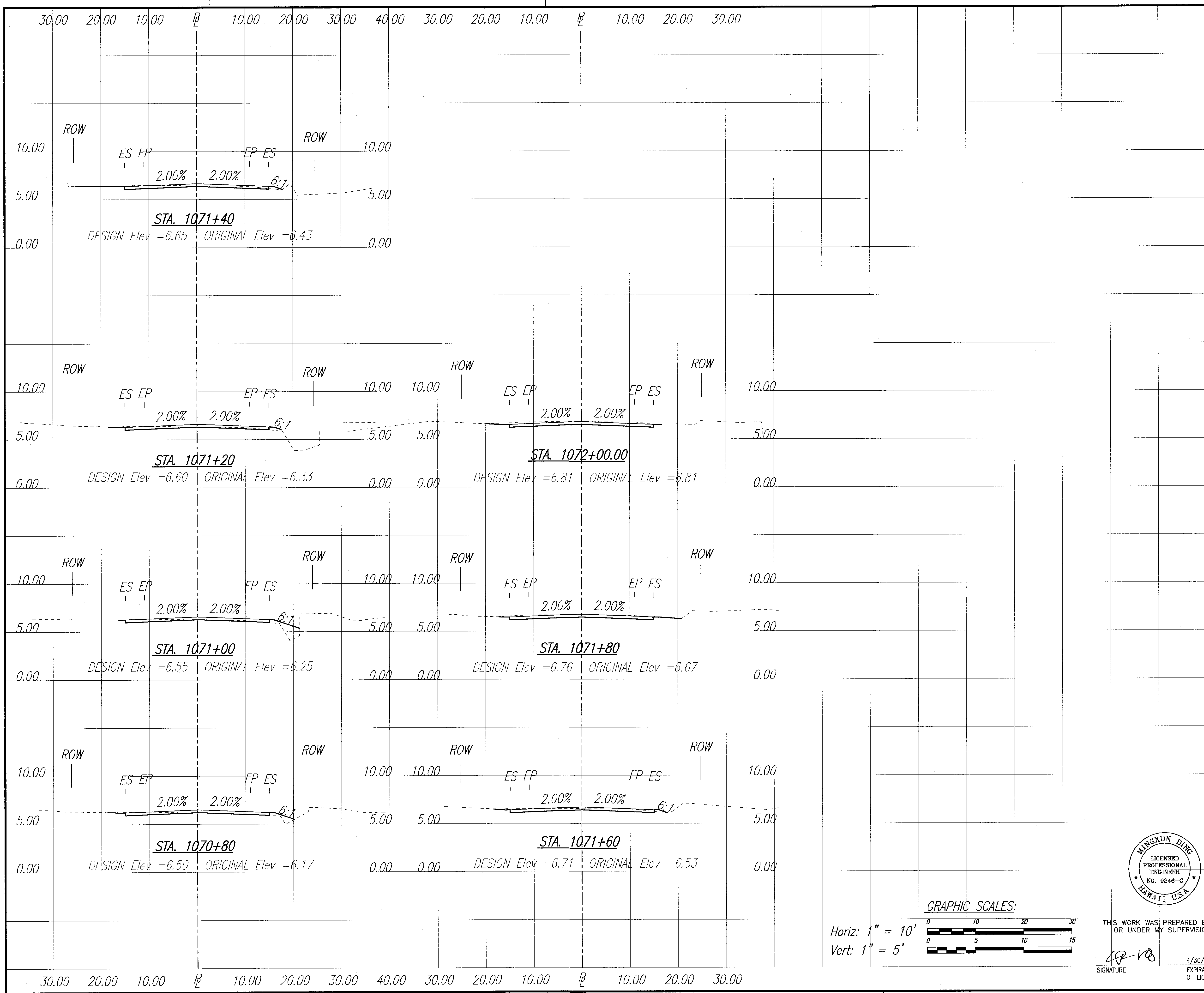
ROADWAY CROSS SECTIONS

KAMEHAMEHA HIGHWAY - REPLACEMENT
 OF SOUTH PUNALUU STREAM BRIDGE
 Federal Aid Project No. BR-083-1(42)

Scale: As Shown
 Date: May 2009

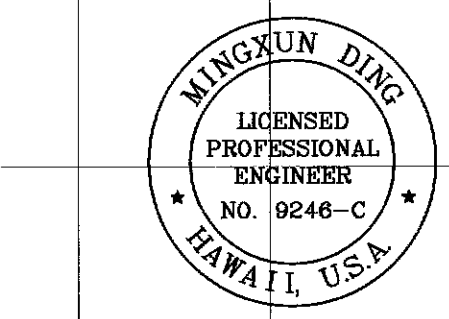
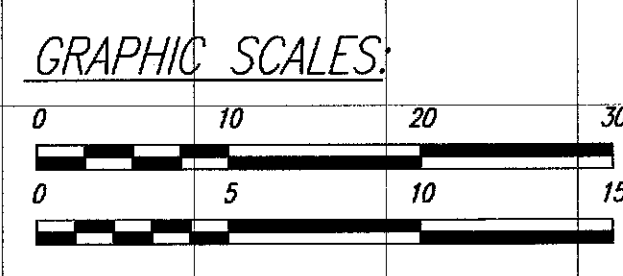
SHEET No. C26 OF 40 SHEETS

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	BR-083-1(42)	2009	27	121



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

Horiz: 1" = 10'
 Vert: 1" = 5'



THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION.

SIGNATURE

4/30/16
EXPIRATION DATE OF LICENSE

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

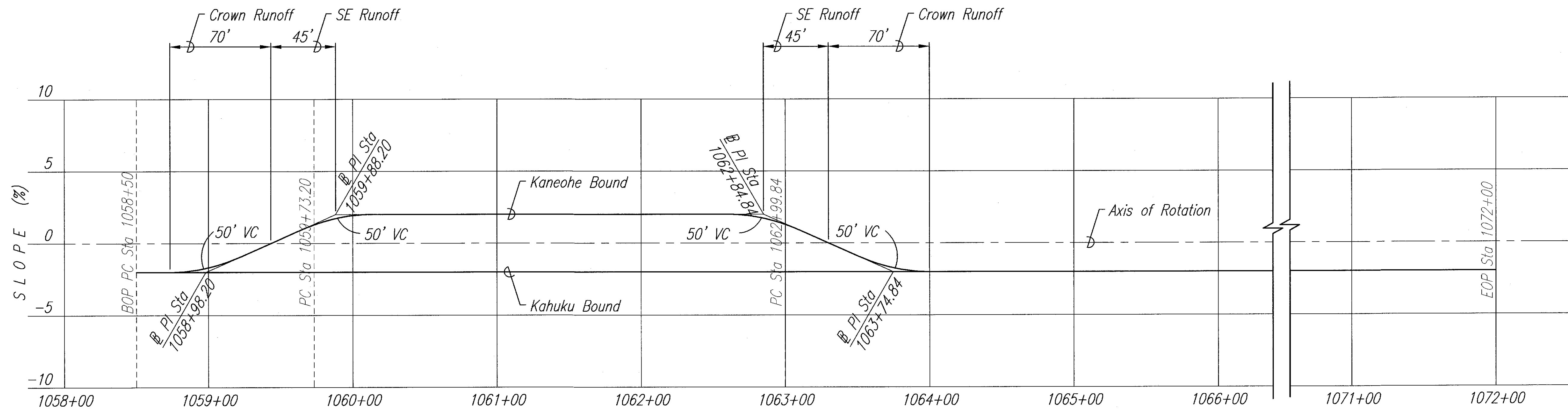
ROADWAY CROSS SECTIONS

KAMEHAMEHA HIGHWAY - REPLACEMENT
OF SOUTH PUNALUU STREAM BRIDGE
Federal Aid Project No. BR-083-1(42)

Scale: As Shown Date: May 2009

SHEET No. C27 OF 40 SHEETS

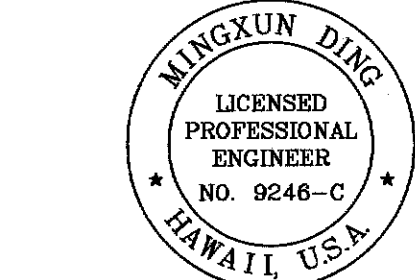
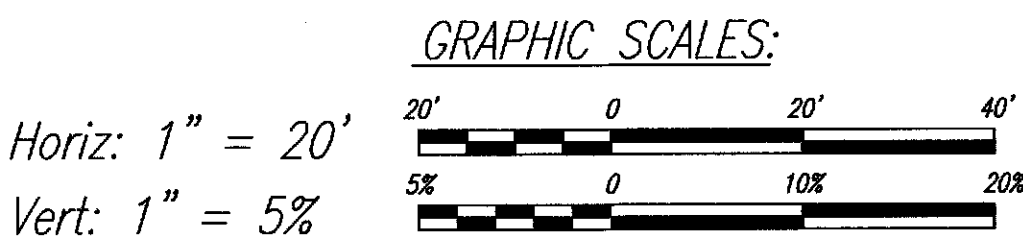
FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	BR-083-1(42)	2009	28	121



ROADWAY SUPERELEVATION DIAGRAM

Scale: Horiz: 1" = 40'
Vert: 1" = 5%

SURVEY PLOTTED BY	DATE
DESIGNED BY	
TRACED BY	
NOTED BY	
QUANTITIES BY	
CHECKED BY	



THIS WORK WAS PREPARED BY ME
OR UNDER MY SUPERVISION.

SIGNATURE

4/30/16
EXPIRATION DATE
OF LICENSE

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

**ROADWAY SUPERELEVATION
DIAGRAM**

**KAMEHAMEHA HIGHWAY - REPLACEMENT
OF SOUTH PUNALUU STREAM BRIDGE
Federal Aid Project No. BR-083-1(42)**

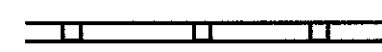
Scale: As Shown Date: May 2009

SHEET No. C28 OF 40 SHEETS

NOTES

- Layout of pavement markings and striping shall be done by the Contractor and approved by the Engineer prior to any installation work.
- Exist pavement markings not incorporated in the final traffic pattern shall be removed as directed by the Engineer. Costs shall be incidental to the various pavement marking items.
- Raised pavement markers shall not be installed within crosswalks.
- Final locations of all signs shall be approved by the Engineer prior to any installation work.
- Exist signs not shown on these plans shall remain as posted unless otherwise directed by the Engineer. Removal and disposal of existing signs and/or posts as designated on these plans shall be incidental to the various signing items.
- Final locations of all Stop Lines shall be approved by the Engineer prior to installation.
- All pavement striping shall be as noted on the legend or plans.
- All preformed pavement marking tapes over existing pavement shall be applied with an approved primer as recommended by the tape manufacturer and as approved by the Engineer. The primer shall be allowed to dry to the tacky stage prior to tape application.
- Sign posts shall be square tube posts (2" or 2 1/2") unless shown on these plans or directed by the Engineer.
- Removal of Exist Delineators and Posts as directed by the Engineer shall be considered incidental to the various signing items.
- Exist signs that are to be replaced shall not be removed until new signs are installed as replacements, or the messages are no longer necessary.
- Backing for all new regulatory and warning signs shall not be spliced.
- All sign panels shall conform to Section 621 of Special Provisions and the latest editions and amendments of the following FHWA publications:
 - "Manual on Uniform Traffic Control Devices for Street and Highways" (MUTCD)
 - "Standard Highway Signs"
 - "Standard Alphabets for Highway Signs"
- All new and relocated signs and markers installed on pipe post or light standard are to be mounted on new square tube posts or on light standard with band brackets and steel braces.
- The Contractor shall erect at the beginning of the project and at the end of the project advance construction warning signs as indicated on the plans or as directed by the Engineer for the duration of the highway project and shall be maintained by the Contractor. These signs shall be placed in addition to the required traffic control signs called for in Section 645-Work Zone Traffic Control. The advance construction warning signs shall be new and become the property of the State. The Contractor shall remove, clean, and deliver the signs and posts to the Oahu District Baseyard or as directed by the Engineer at the end of the project.
- The Contractor shall notify the Oahu Transit Services Inc. (OTS), Ed Sniffen, at 848-4571 or Lowell Tom at 848-4578 two weeks prior to beginning any work, informing them of location, scope of work, proposed closure of any street or traffic lanes, and the need to relocate any bus stop.

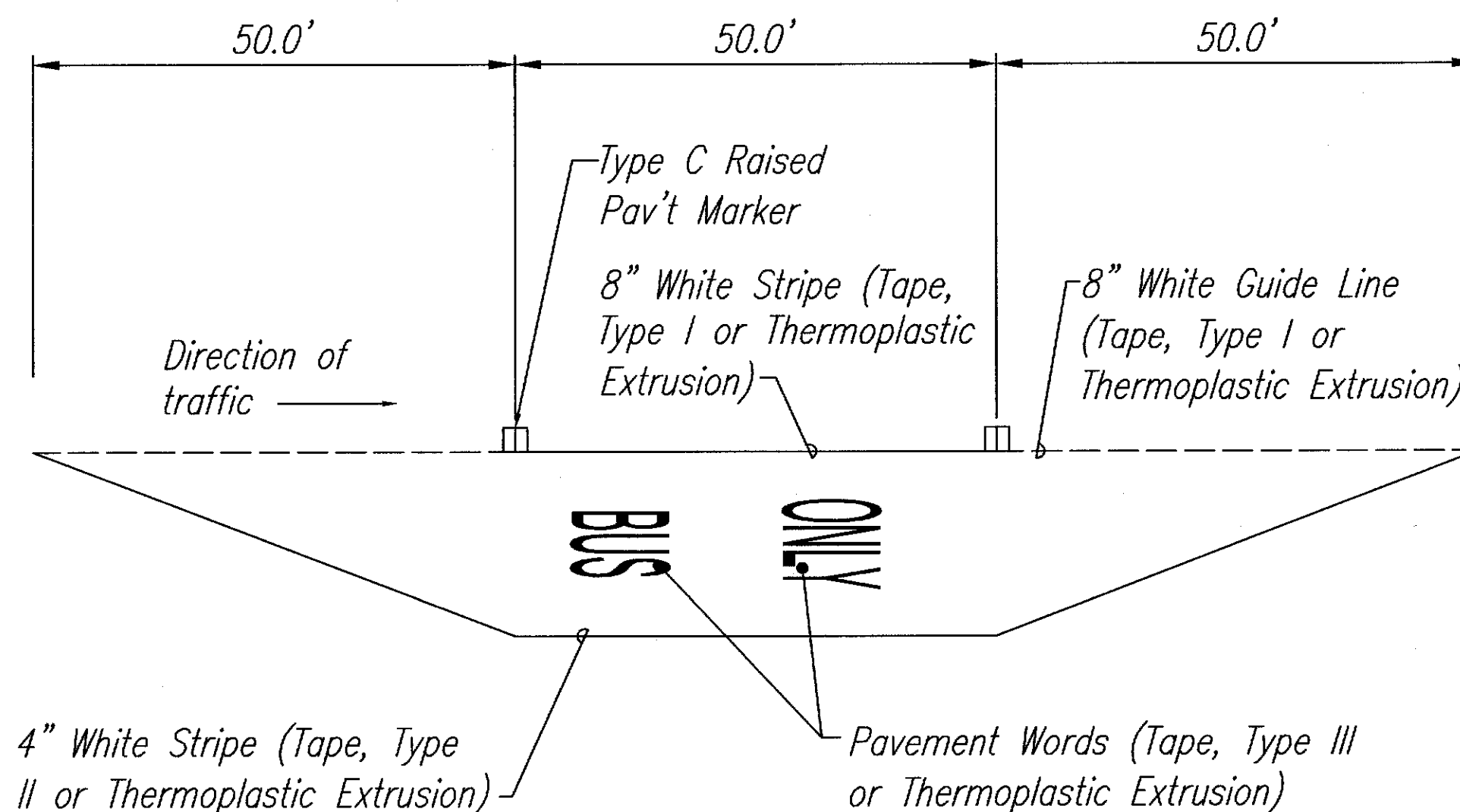
LEGEND



4" Double Solid Yellow with Type D
Raised Pavement Markers @ 20'-0" o.c.
(Tape, Type I or Thermoplastic Extrusion)



4" or 8" White Edge Stripe with Type C Raised
Pavement Markers @ 40'-0" o.c. (Tape, Type
II or Thermoplastic Extrusion)

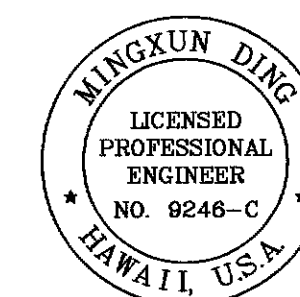


TYPICAL BUS BAY STRIPING

Not to Scale

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	BR-083-1(42)	2009	29	121

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



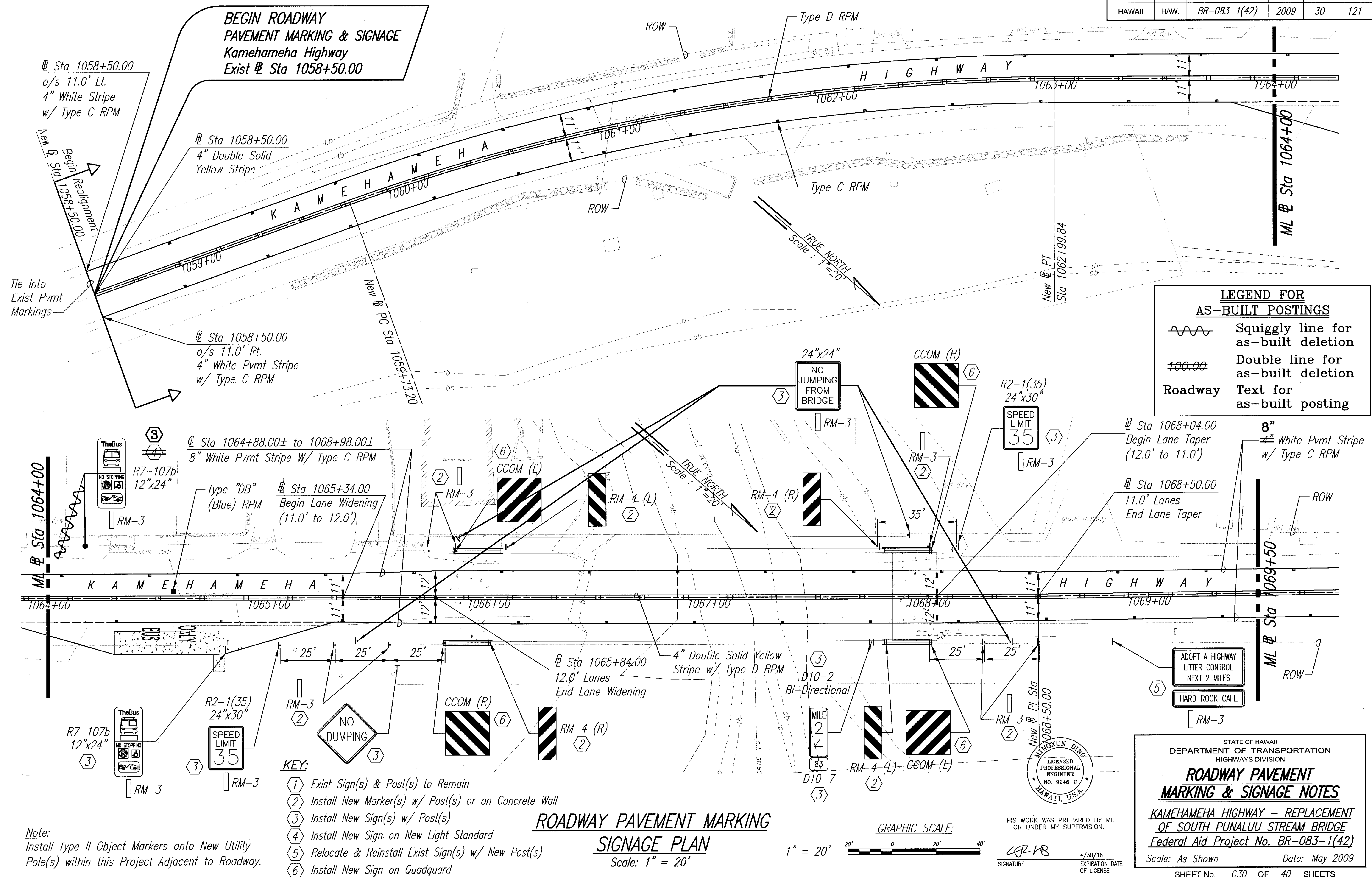
THIS WORK WAS PREPARED BY ME
OR UNDER MY SUPERVISION.

Signature: *CR 128*

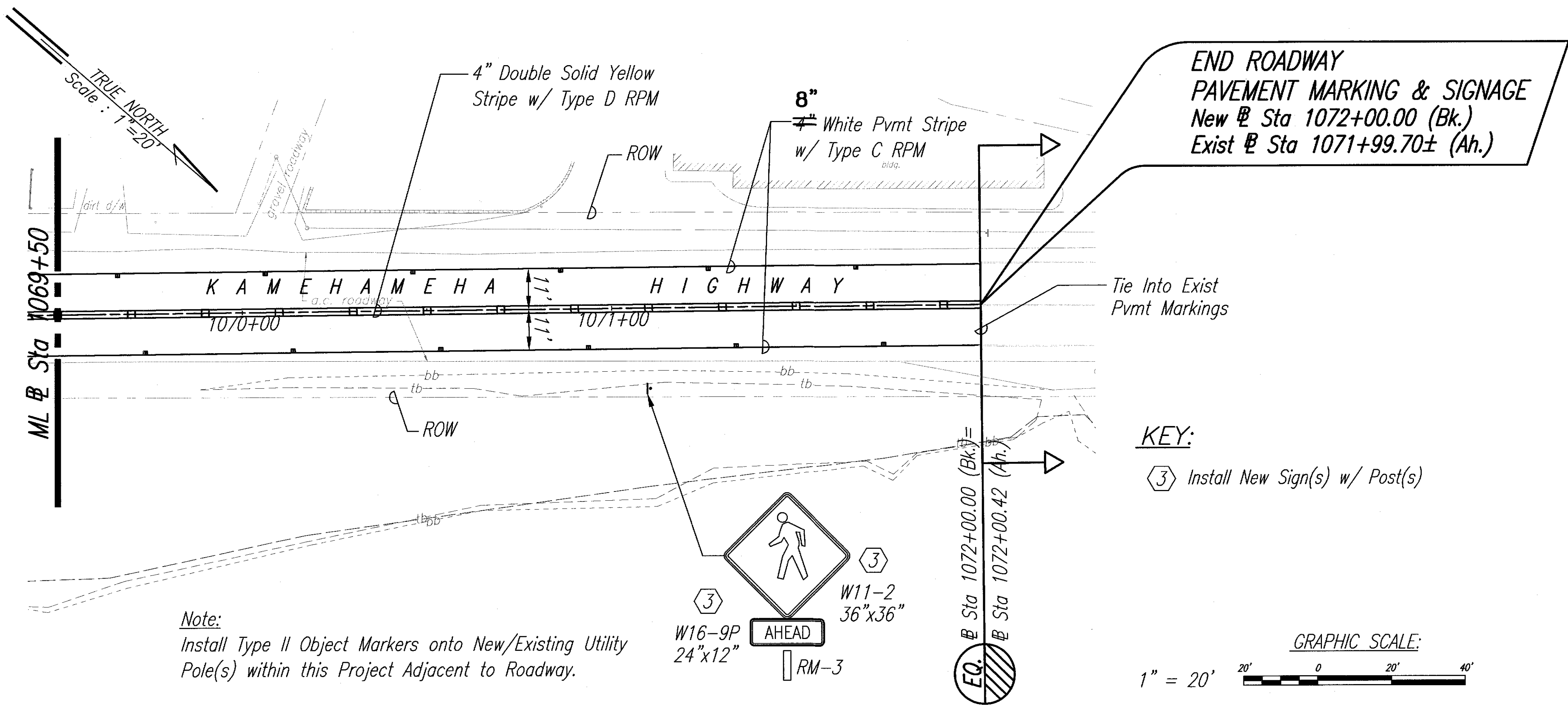
4/30/16
EXPIRATION DATE
OF LICENSE

STATE OF HAWAII DEPARTMENT OF TRANSPORTATION HIGHWAYS DIVISION	
ROADWAY PAVEMENT MARKING & SIGNAGE NOTES	
KAMEHAMEHA HIGHWAY - REPLACEMENT OF SOUTH PUNALUU STREAM BRIDGE	
Federal Aid Project No. BR-083-1(42)	
Scale: None	Date: May 2009
SHEET No. C29 OF 40 SHEETS	

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	BR-083-1(42)	2009	30	121



FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	BR-083-1(42)	2009	31	121



LEGEND FOR AS-BUILT POSTINGS	
	Squiggly line for as-built deletion
	Double line for as-built deletion
Roadway	Text for as-built posting

TRAFFIC SIGN SUMMARY				
SIGN NO.	MESSAGE (ALL SIGNS 10 SQ. FT. OR LESS)	QUANTITY		
		W/POST	W/O POST	RELOCATE
R2-1(35)	SPEED LIMIT 35	2		
R7-107b	The Bus	≠ 2	≠	
	NO JUMPING FROM BRIDGE	≠ 4		
	NO DUMPING	1		
W11-2	PEDESTRIAN CROSSING	1		
W16-9P	AHEAD		1	
	ADOPT A HIGHWAY/HARDROCK CAFE			1
TOTAL		6	2	1

PAVEMENT MARKING SUMMARY	
DESCRIPTION	QUANTITY
PAVEMENT MARKERS	
TYPE A	0 Ea
TYPE C	65 Ea
TYPE D	67 Ea
TYPE DB	1 Ea
TYPE H	0 Ea
TAPE - TYPE I OR THERMOPLASTIC EXTRUSION	
4-INCH PAVEMENT STRIPE (WHITE)	2,300 LF
8-INCH PAVEMENT STRIPE (WHITE)	400 LF
DOUBLE 4-INCH PAVEMENT STRIPE (WHITE)	- LF
DOUBLE 4-INCH PAVEMENT STRIPE (YELLOW)	1,350 LF
"BUS ONLY" LETTERS	1 Ea

REFLECTOR MARKER SUMMARY		
TYPE	QUANTITY	
	W/STEEL POST	REMOVE
	YELLOW	
RM-3	14	4
RM-4	4	4
CCOM (R)	2	
CCOM (L)	2	
TOTAL	22	8

MILEPOST MARKER SUMMARY			
LOCATION	SIGN NO. AND MESSAGE	QUANTITY	
		W/POST	RELOCATE
@ Sta 1067+98 I.B.	D10-2(24) / D10-7(83) Bi-Directional		1
TOTAL			1

SURVEY PLOTTED BY	DATE
DRAWN BY	
TRACED BY	
CHECKED BY	
NOTE BOOK	
QUANTITIES BY	
CHECKED BY	
No.	



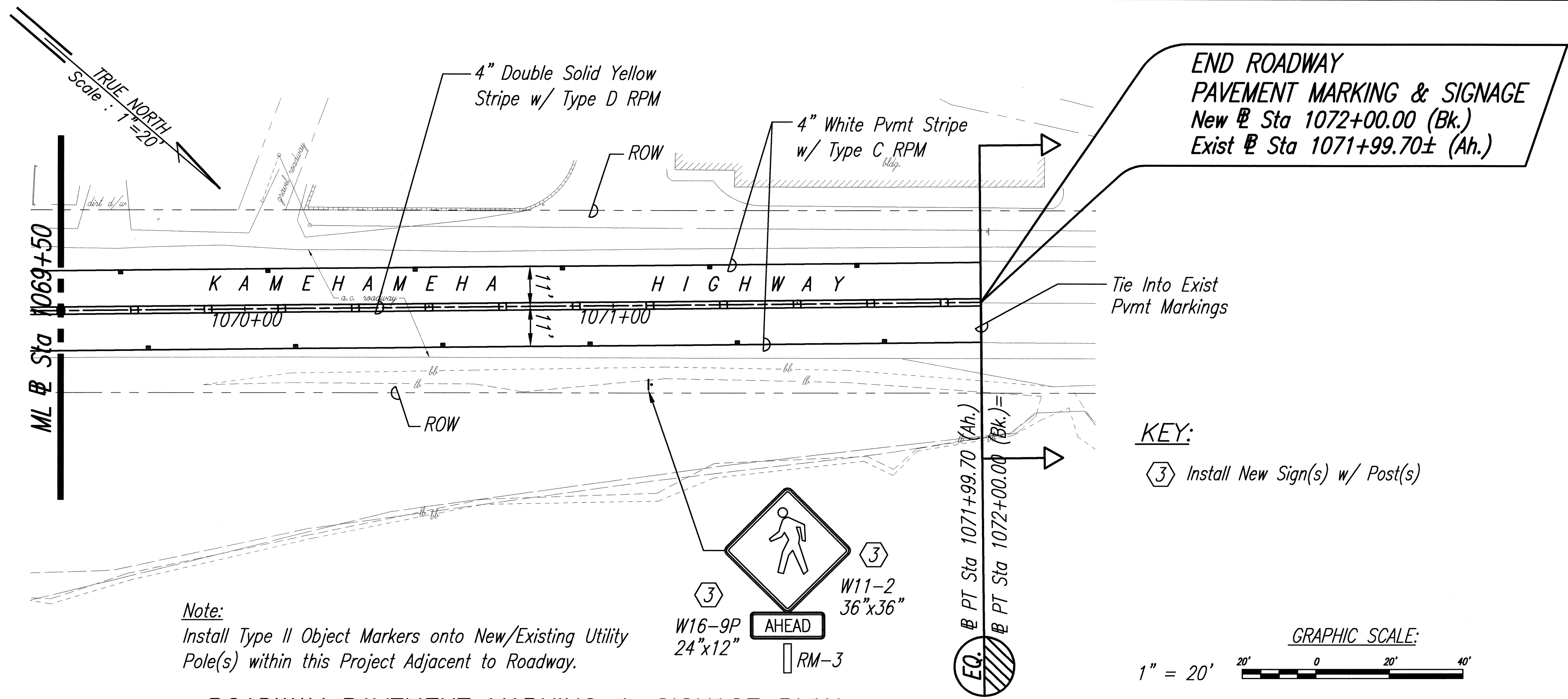
THIS WORK WAS PREPARED BY ME
OR UNDER MY SUPERVISION.

SIGNATURE

4/30/16
EXPIRATION DATE
OF LICENSE

STATE OF HAWAII DEPARTMENT OF TRANSPORTATION HIGHWAYS DIVISION	
ROADWAY PAVEMENT MARKING & SIGNAGE PLAN & TRAFFIC SUMMARY	
KAMEHAMEHA HIGHWAY - REPLACEMENT OF SOUTH PUNALUU STREAM BRIDGE Federal Aid Project No. BR-083-1(42)	
Scale: As Shown	Date: May 2009
SHEET No. C31 OF 40 SHEETS	

"AS-BUILT"



ROADWAY PAVEMENT MARKING & SIGNAGE PLAN
Scale: 1" = 20'

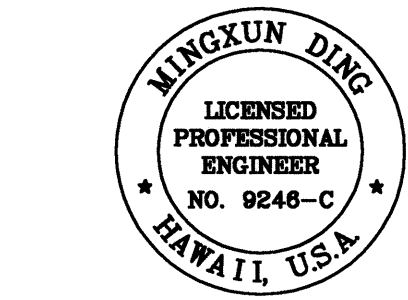
TRAFFIC SIGN SUMMARY				
SIGN NO.	MESSAGE (ALL SIGNS 10 SQ. FT. OR LESS)	QUANTITY		
		W/POST	W/O POST	RELOCATE
R2-1(35)	SPEED LIMIT 35	2		
R7-107b	The Bus	1	1	
	NO JUMPING FROM BRIDGE	1		
	NO DUMPING	1		
W11-2	PEDESTRIAN CROSSING	1		
W16-9P	AHEAD		1	
	ADOPT A HIGHWAY/HARDROCK CAFE			1
TOTAL		6	2	1

PAVEMENT MARKING SUMMARY	
DESCRIPTION	QUANTITY
PAVEMENT MARKERS	
TYPE A	0 Ea
TYPE C	65 Ea
TYPE D	67 Ea
TYPE DB	1 Ea
TYPE H	0 Ea
TAPE - TYPE I OR THERMOPLASTIC EXTRUSION	
4-INCH PAVEMENT STRIPE (WHITE)	2,300 LF
8-INCH PAVEMENT STRIPE (WHITE)	400 LF
DOUBLE 4-INCH PAVEMENT STRIPE (WHITE)	- LF
DOUBLE 4-INCH PAVEMENT STRIPE (YELLOW)	1,350 LF
"BUS ONLY" LETTERS	1 Ea

REFLECTOR MARKER SUMMARY		
TYPE	QUANTITY	
	W/STEEL POST	REMOVE
	YELLOW	
RM-3	14	4
RM-4	4	4
CCOM (R)	2	
CCOM (L)	2	
TOTAL	22	8

MILEPOST MARKER SUMMARY			
LOCATION	SIGN NO. AND MESSAGE	QUANTITY	
		W/POST	RELOCATE
@ Sta 1067+98 I.B.	D10-2(24) / D10-7(83) Bi-Directional		1
TOTAL			1

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



THIS WORK WAS PREPARED BY ME
OR UNDER MY SUPERVISION.

SIGNATURE

4/30/10
EXPIRATION DATE
OF LICENSE

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

ROADWAY PAVEMENT MARKING & SIGNAGE PLAN & TRAFFIC SUMMARY

KAMEHAMEHA HIGHWAY - REPLACEMENT
OF SOUTH PUNALUU STREAM BRIDGE
Federal Aid Project No. BR-083-01(42)

Scale: As Shown Date: May 2009

SHEET No. 3 OF 3 SHEETS