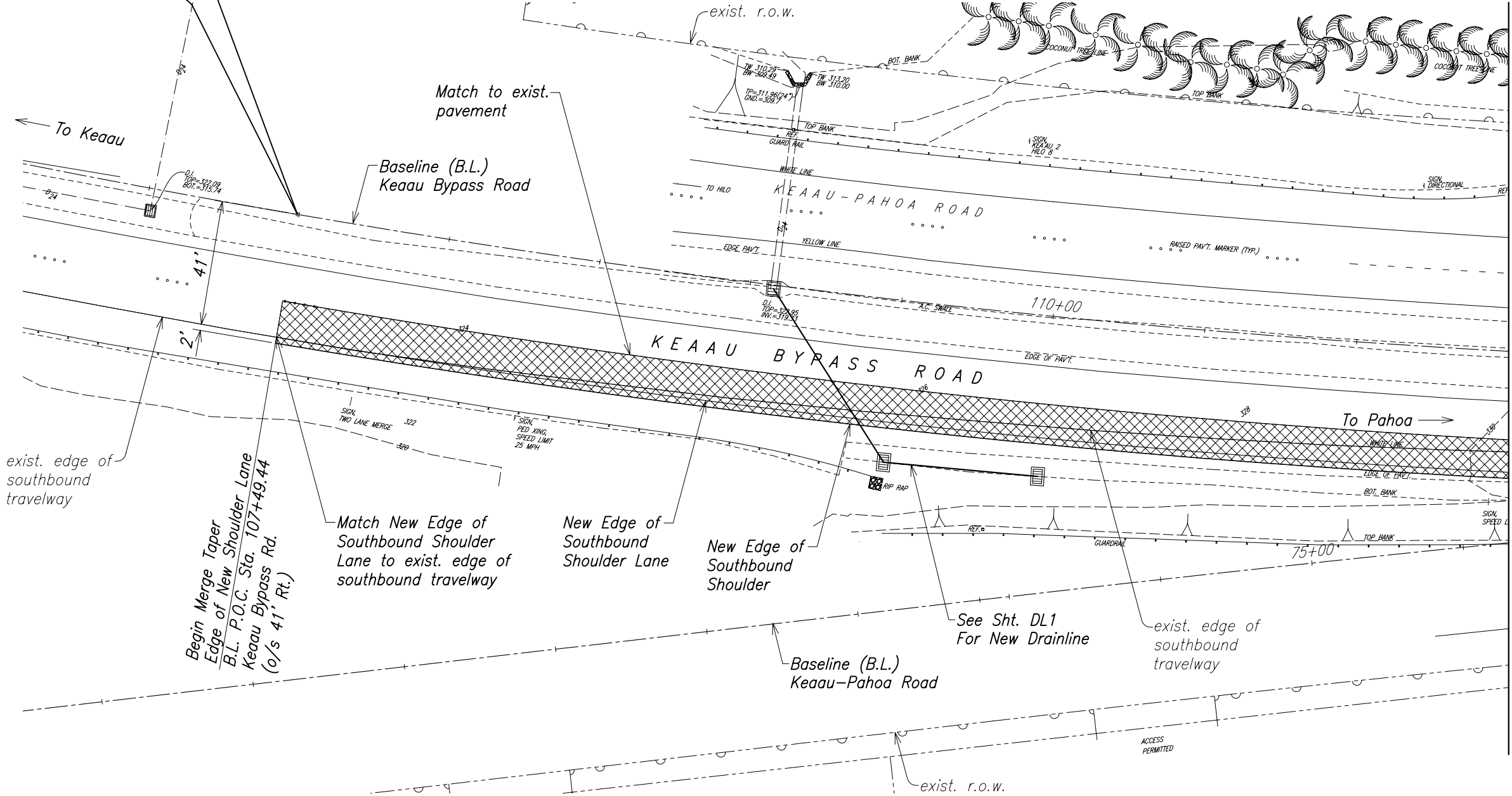


FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	STP-0130(28)	2010	32	317

BEGIN PROJECT
Project No. STP-0130(28)
B.L. P.O.C. Sta. 107+49.44
Keaau Bypass Road

TMK.:1-6-03:068

True North
Scale: 1"=20'



B.L. Keaau Bypass Road
Curve Data

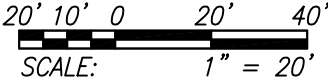
Δ	= 40°29'00"
$\Delta/2$	= 20°14'30"
R	= 3500
T	= 1290.64
Ch	= 2421.86
Lc	= 2472.99

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

Legend:

 New A.C. Pavement

GRAPHIC SCALE:



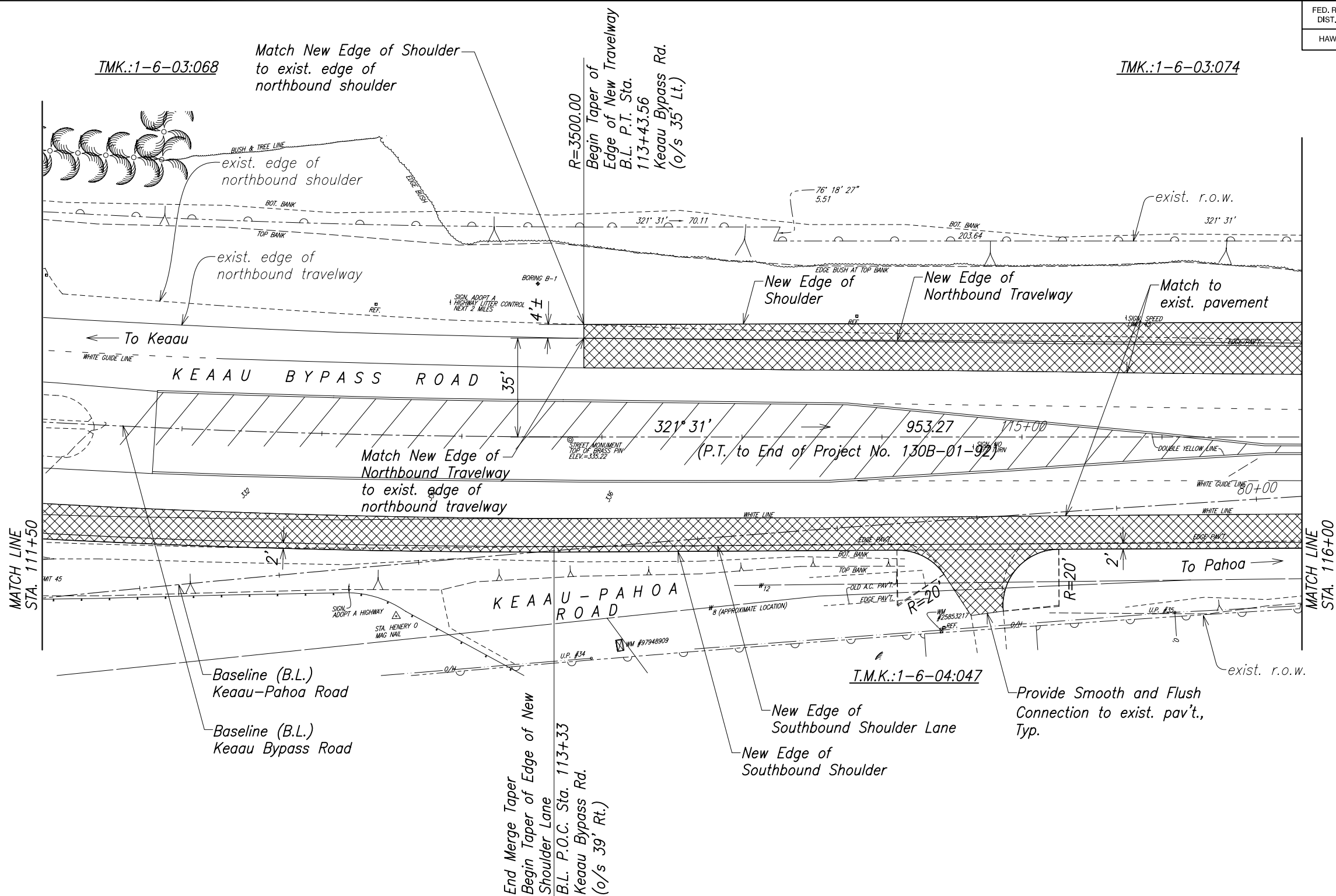
THIS WORK WAS PREPARED BY ME
OR UNDER MY SUPERVISION.

APRIL 30, 2012
WILSON OKAMOTO CORPORATION LIC. EXP. DATE

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

ROADWAY PLAN
Keaau-Pahoa Road, Shoulder Lane Conversion
Keaau Bypass Road to Shower Drive
Fed. Aid Proj. No. STP-0130(28)
Scale: As Noted Date: December 2010
SHEET No. RP1 OF 28 SHEETS

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	STP-0130(28)	2010	33	317

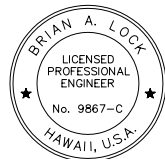


True North
Scale: 1"=20'

SURVEY PLOTTED BY	DATE
DRAWN BY	
CHECKED BY	
NOTED BY	
QUANTITIES BY	
CHECKED BY	

ORIGINAL PLAN	No.
NOTE BOOK	

Legend:
New A.C. Pavement
GRAPHIC SCALE:
20' 10' 0' 20' 40'
SCALE: 1" = 20'

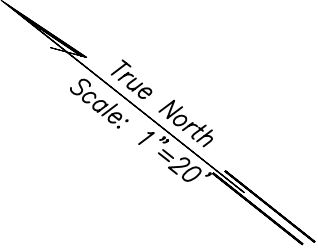


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WILSON OKAMOTO CORPORATION LIC. EXP. DATE APRIL 30, 2012

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION
ROADWAY PLAN
Keaau-Pahoa Road, Shoulder Lane Conversion
Keaau Bypass Road to Shower Drive
Fed. Aid Proj. No. STP-0130(28)
Scale: As Noted Date: December 2010
SHEET No. RP2 OF 28 SHEETS

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	STP-0130(28)	2010	34	317



B.L. Keaau-Pahoa Road
Curve Data

Δ	= 6° 37' 00"
$\Delta/2$	= 3° 18' 30"
R	= 11459.20
T	= 662.41
Ch	= 1322.60
Lc	= 1323.34



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APRIL 30, 2012
WILSON OKAMOTO CORPORATION LIC. EXP. DATE

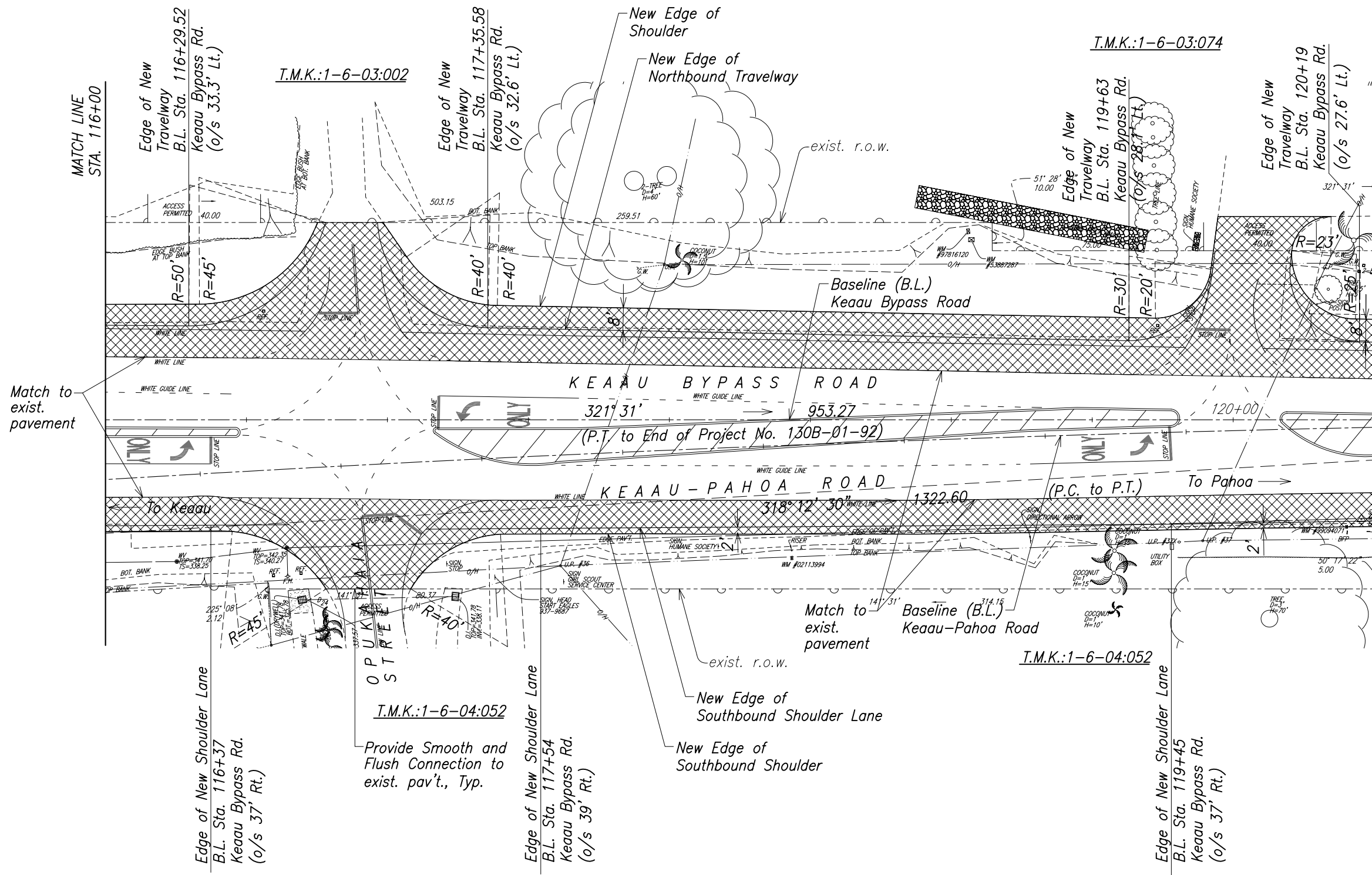
STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

ROADWAY PLAN

Keaau-Pahoa Road, Shoulder Lane Conversion
Keaau Bypass Road to Shower Drive
Fed. Aid Proj. No. STP-0130(28)

Scale: As Noted Date: December 2010

SHEET No. RP3 OF 28 SHEETS



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

Legend:

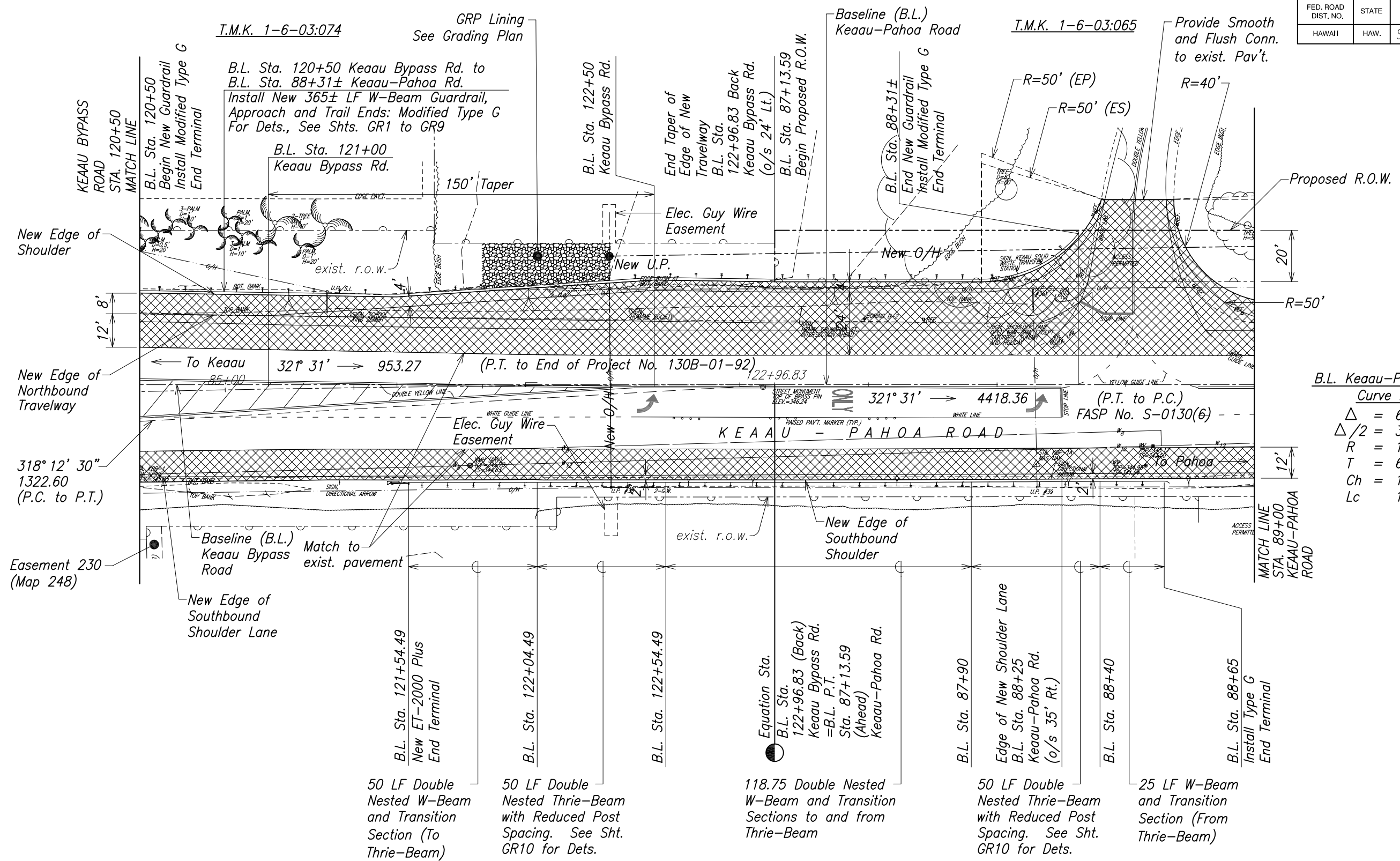
New A.C. Pavement

GRAPHIC SCALE:

20' 10' 0 20' 40'

SCALE: 1" = 20'

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	STP-0130(28)	2010	35	317



B.L. Keaau-Pahoa Road Curve Data

Δ	$= 6^\circ 37' 00''$
$\Delta/2$	$= 3^\circ 18' 30''$
R	$= 11459.20$
T	$= 662.41$
Ch	$= 1322.60$
Lc	$= 1323.34$

Legend:

New A.C. Pavement

GRAPHIC SCALE:

20' 10' 0 20' 40'

SCALE: 1" = 20'

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



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APRIL 30, 2012
WILSON OKAMOTO CORPORATION LIC. EXP. DATE

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

ROADWAY PLAN

Keaau-Pahoa Road, Shoulder Lane Conversion
Keaau Bypass Road to Shower Drive
Fed. Aid Proj. No. STP-0130(28)

Scale: As Noted Date: December 2010

SHEET No. RP4 OF 28 SHEETS

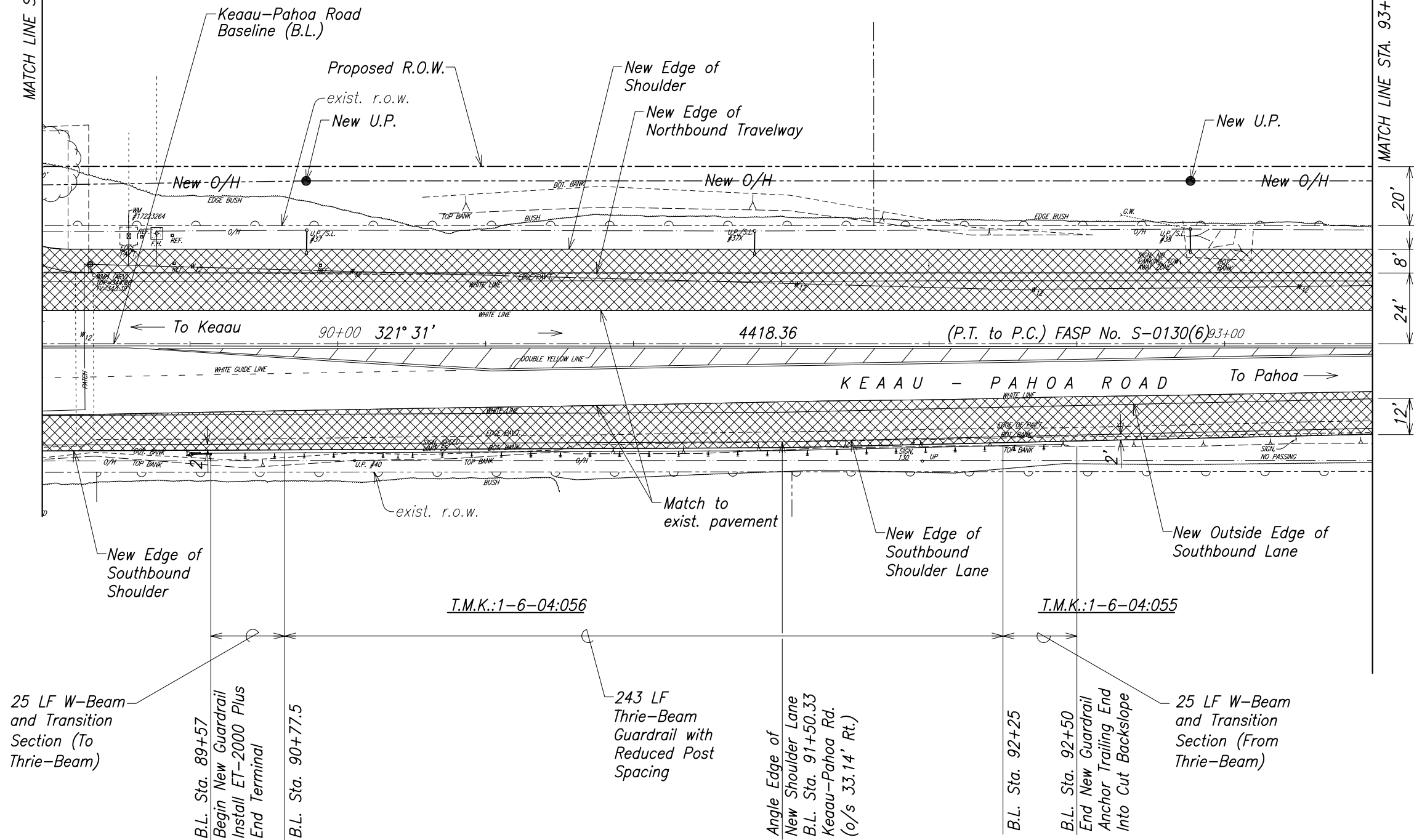
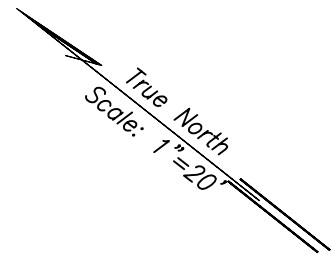
FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	STP-0130(28)	2010	36	317

MATCH LINE STA. 89+00

T.M.K.:1-6-03:065

T.M.K.:1-6-03:002

MATCH LINE STA. 93+50



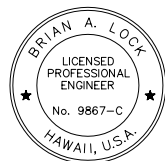
SURVEY PLOTTED BY	DATE
DRAWN BY	
DESIGNED BY	
QUANTITIES BY	
CHECKED BY	

ORIGINAL PLAN	No.
NOTE BOOK	

Legend:

New A.C. Pavement

GRAPHIC SCALE:
20' 10' 0 20' 40'
SCALE: 1" = 20'



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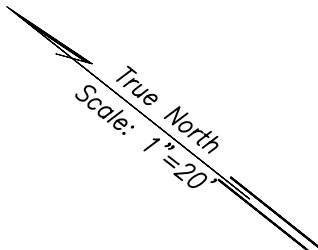
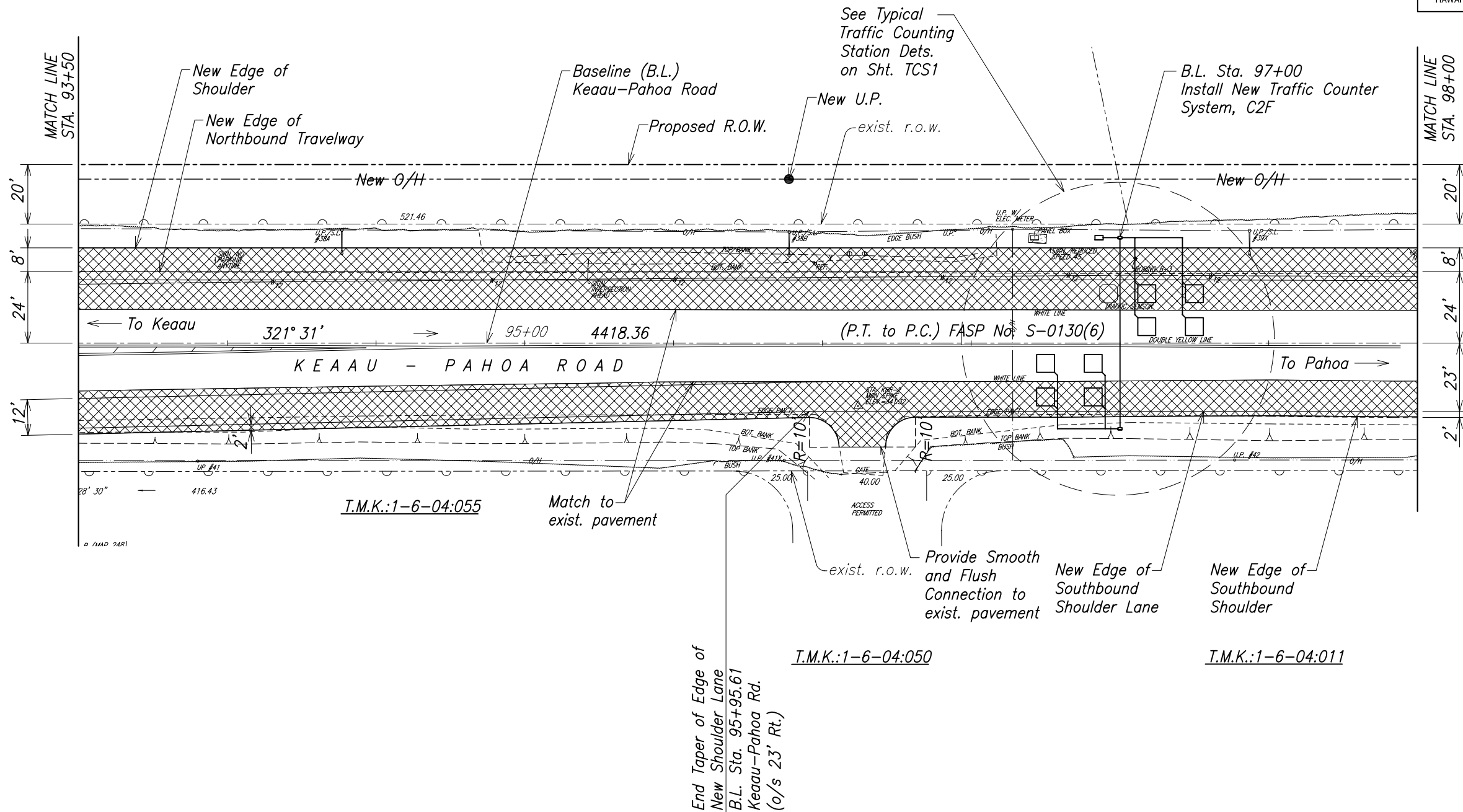
WILSON OKAMOTO CORPORATION LIC. EXP. DATE APRIL 30, 2012

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION
ROADWAY PLAN
Keaau-Pahoa Road, Shoulder Lane Conversion
Keaau Bypass Road to Shower Drive
Fed. Aid Proj. No. STP-0130(28)
Scale: As Noted Date: December 2010
SHEET No. RP5 OF 28 SHEETS

T.M.K.:1-6-03:002

T.M.K.:1-6-01:015

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	STP-0130(28)	2010	37	317

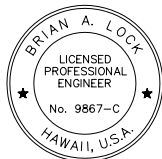
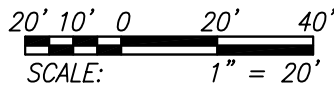


SURVEY PLOTTED BY	DATE
DRAWN BY	
DESIGNED BY	
QUANTITIES BY	
CHECKED BY	
ORIGINAL PLAN	
NOTE BOOK	
No.	

Legend:

 New A.C. Pavement

GRAPHIC SCALE:



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WILSON OKAMOTO CORPORATION LIC. EXP. DATE

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

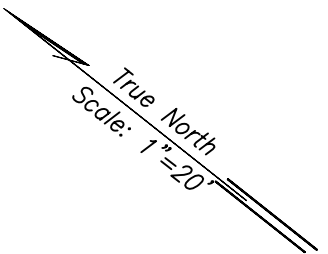
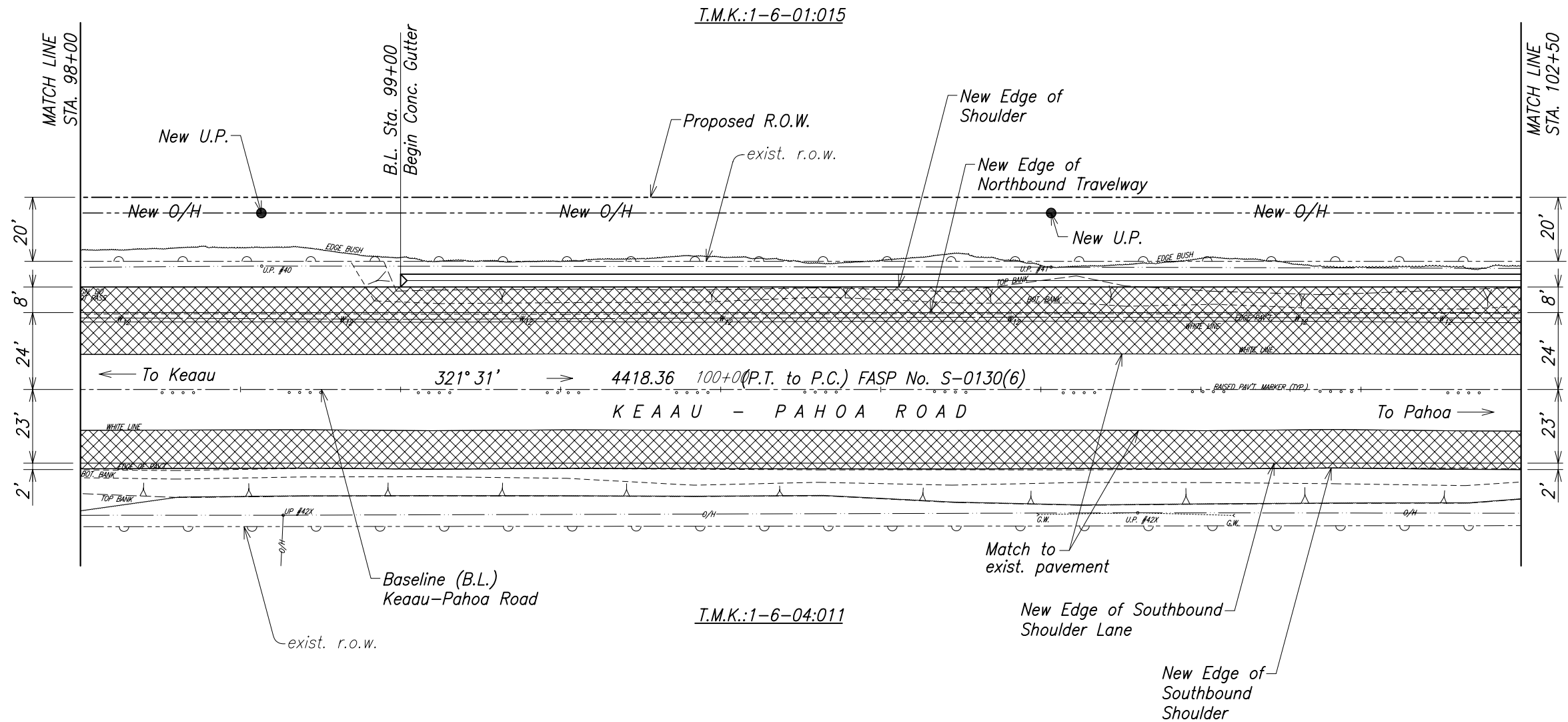
ROADWAY PLAN

Keaau-Pahoa Road, Shoulder Lane Conversion
Keaau Bypass Road to Shower Drive
Fed. Aid Proj. No. STP-0130(28)

Scale: As Noted Date: December 2010

SHEET No. RP6 OF 28 SHEETS

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	STP-0130(28)	2010	38	317

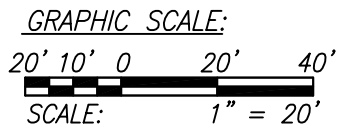


SURVEY PLOTTED BY	DATE
DRAWN BY	
DESIGNED BY	
QUANTITIES BY	
CHECKED BY	

ORIGINAL PLAN	No.
NOTE BOOK	

Legend:

 New A.C. Pavement



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WILSON OKAMOTO CORPORATION LIC. EXP. DATE APRIL 30, 2012

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

ROADWAY PLAN

Keaau-Pahoa Road, Shoulder Lane Conversion

Keaau Bypass Road to Shower Drive

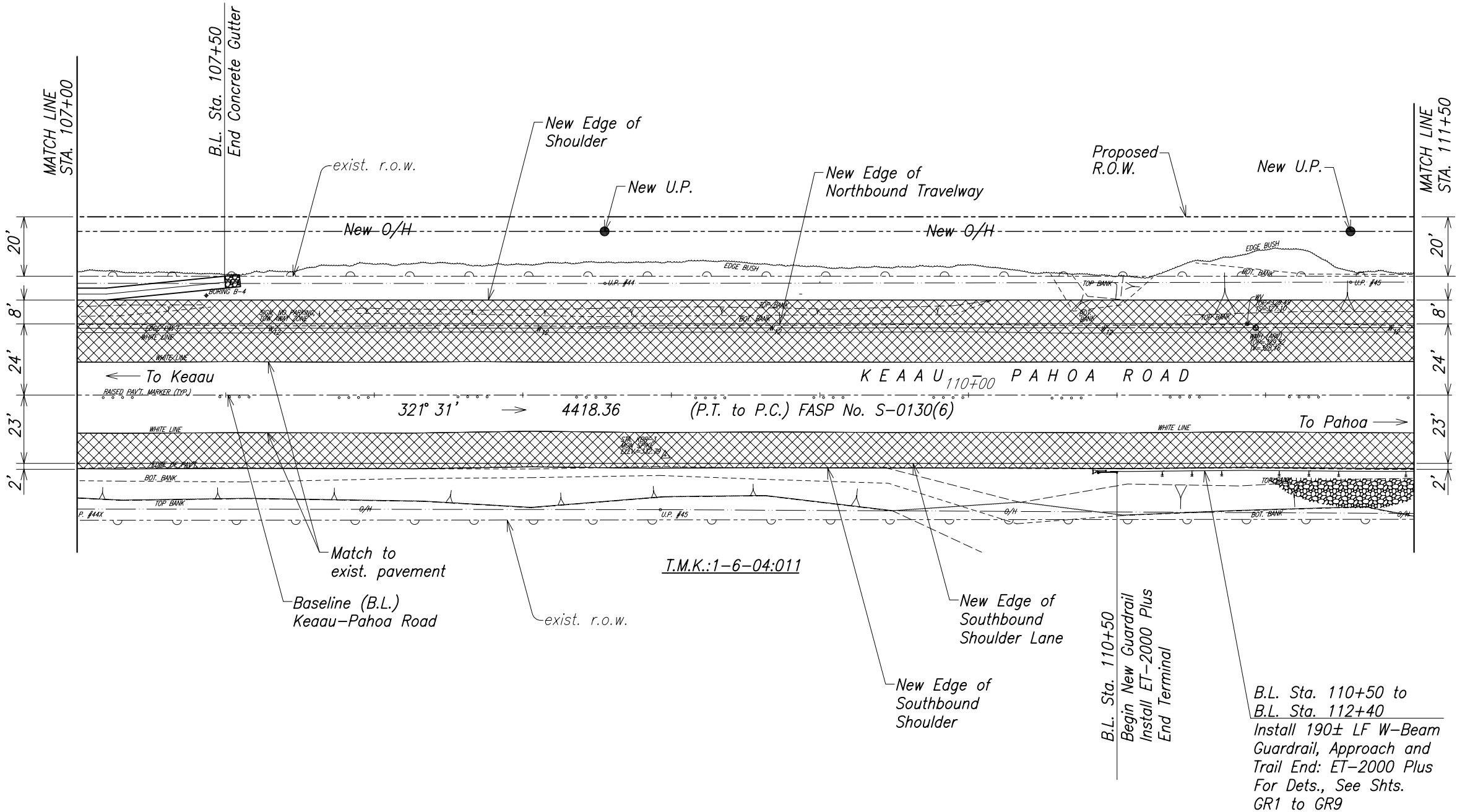
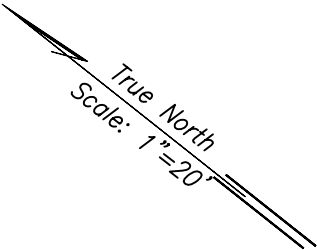
Fed. Aid Proj. No. STP-0130(28)

Scale: As Noted Date: December 2010

SHEET No. RP7 OF 28 SHEETS

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	STP-0130(28)	2010	40	317

T.M.K.:1-6-01:015

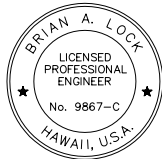
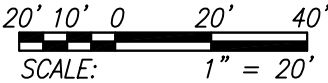


SURVEY PLOTTED BY	DATE
DRAWN BY	
FRAMES BY	
QUANTITIES BY	
CHECKED BY	
ORIGINAL PLAN	
NOTE BOOK	
No.	

Legend:

 New A.C. Pavement

GRAPHIC SCALE:



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WILSON OKAMOTO CORPORATION
APRIL 30, 2012
LIC. EXP. DATE

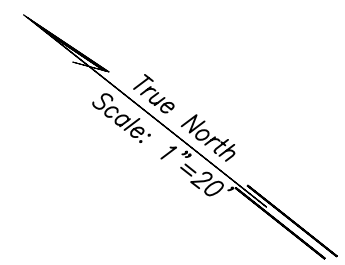
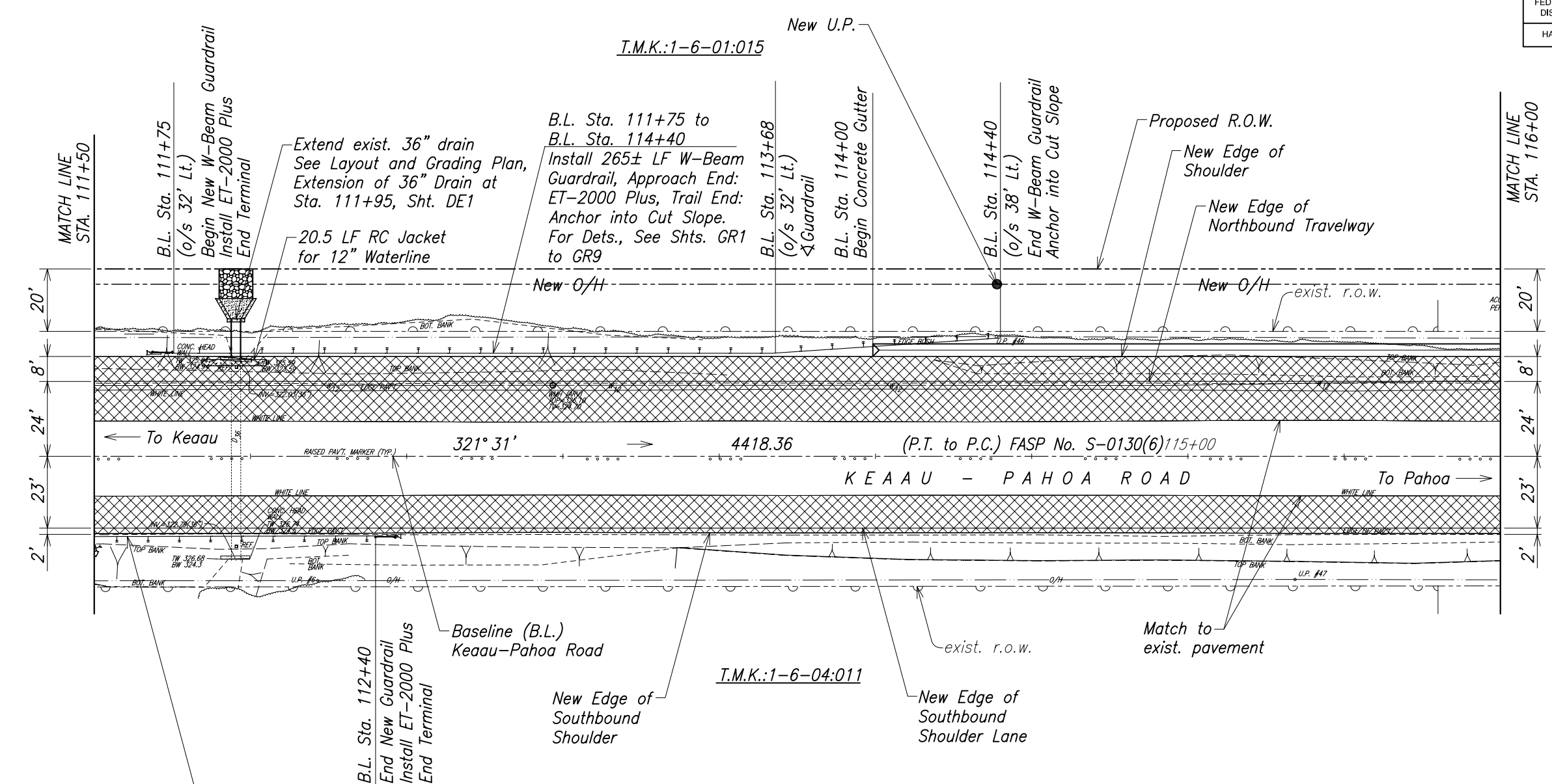
STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

ROADWAY PLAN

Keaau-Pahoa Road, Shoulder Lane Conversion
Keaau Bypass Road to Shower Drive
Fed. Aid Proj. No. STP-0130(28)

Scale: As Noted Date: December 2010
SHEET No. RP9 OF 28 SHEETS

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	STP-0130(28)	2010	41	317



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

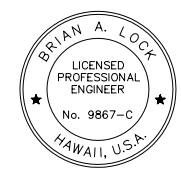
Legend:

New A.C. Pavement

GRAPHIC SCALE:

20' 10' 0 20' 40'

SCALE: 1" = 20'



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WILSON OKAMOTO CORPORATION APRIL 30, 2012
LIC. EXP. DATE

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

ROADWAY PLAN

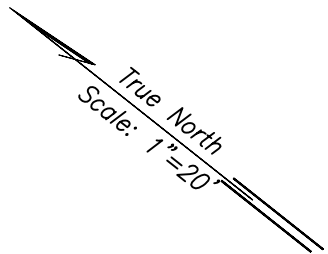
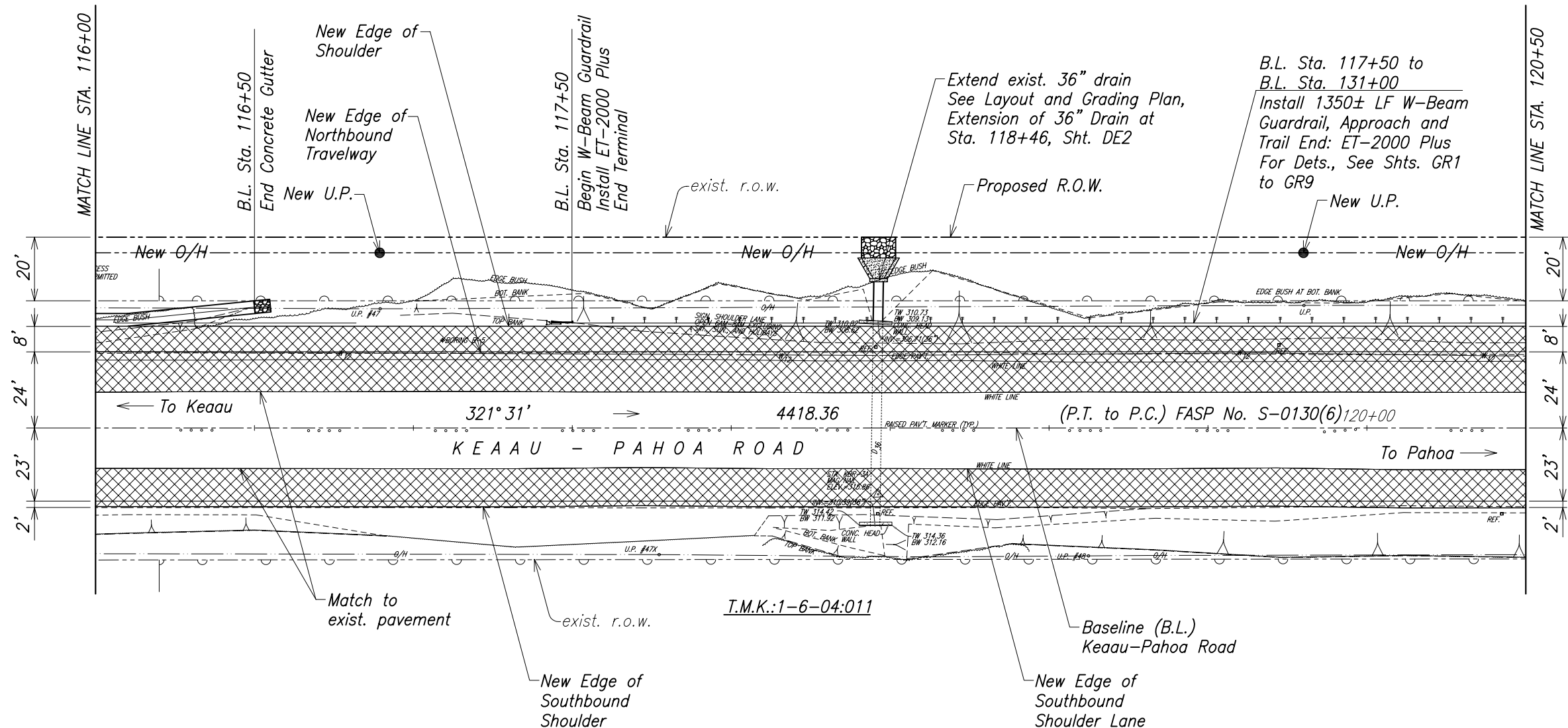
Keaau-Pahoa Road, Shoulder Lane Conversion
Keaau Bypass Road to Shower Drive
Fed. Aid Proj. No. STP-0130(28)

Scale: As Noted Date: December 2010

SHEET No. RP10 OF 28 SHEETS

T.M.K.:1-6-01:015

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	STP-0130(28)	2010	42	317



SURVEY PLOTTED BY	DATE
DRAWN BY	
DESIGNED BY	
QUANTITIES BY	
CHECKED BY	

ORIGINAL PLAN	No.
NOTE BOOK	

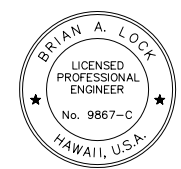
Legend:

New A.C. Pavement

GRAPHIC SCALE:

20' 10' 0 20' 40'

SCALE: 1" = 20'



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WILSON OKAMOTO CORPORATION APRIL 30, 2012 LIC. EXP. DATE

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

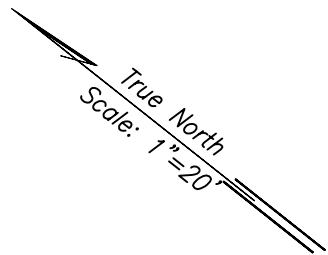
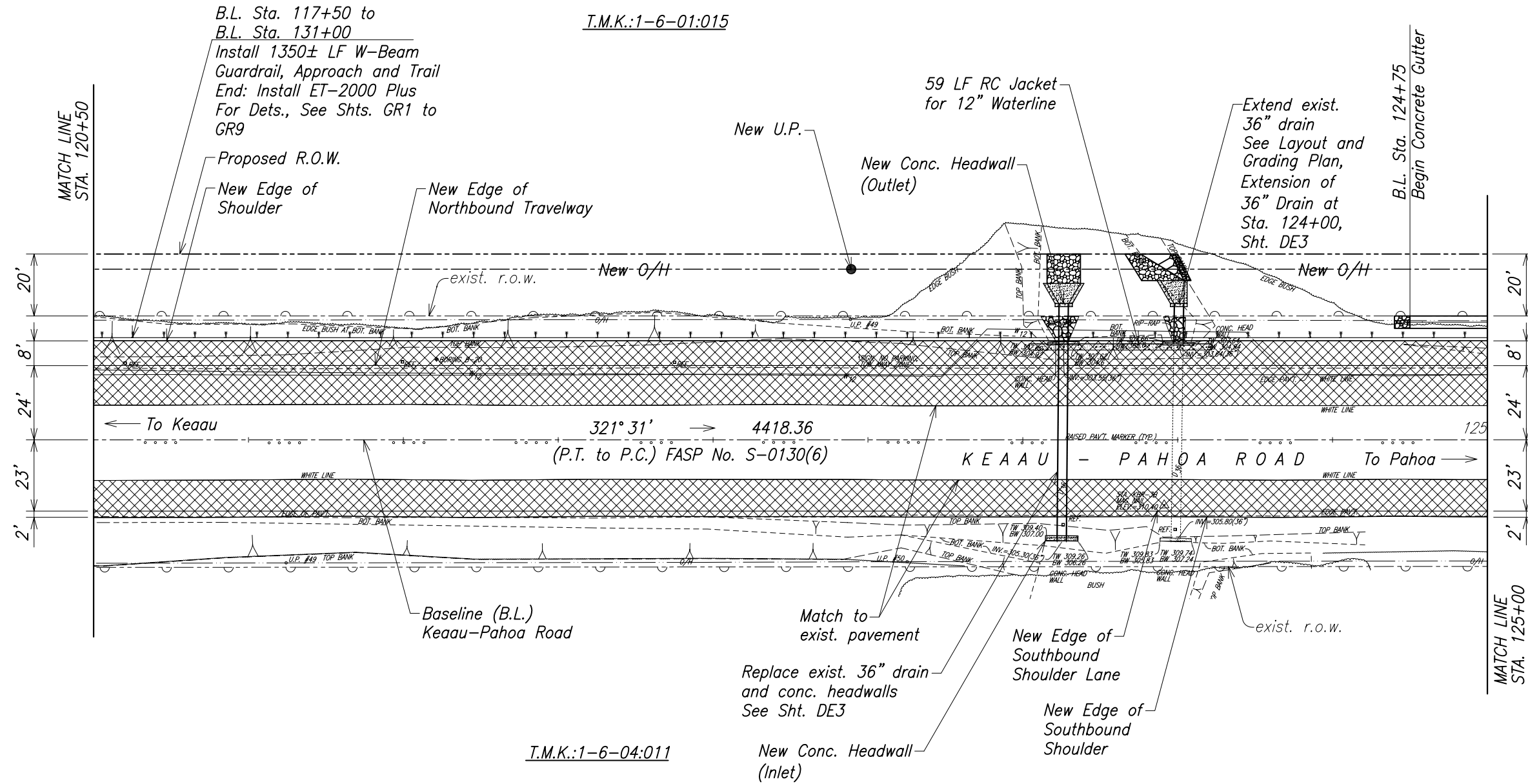
ROADWAY PLAN

Keaau-Pahoa Road, Shoulder Lane Conversion
Keaau Bypass Road to Shower Drive
Fed. Aid Proj. No. STP-0130(28)

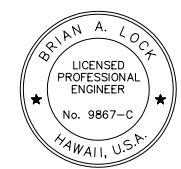
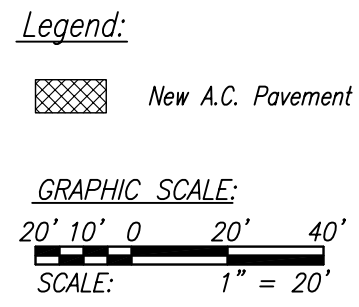
Scale: As Noted Date: December 2010

SHEET No. RP11 OF 28 SHEETS

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	STP-0130(28)	2010	43	317



SURVEY PLOTTED BY	DATE
DRAWN BY	
TRACED BY	
NOTED BY	
CHECKED BY	
ORIGINAL PLAN	No.



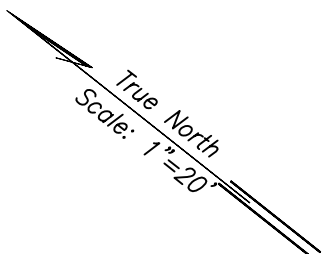
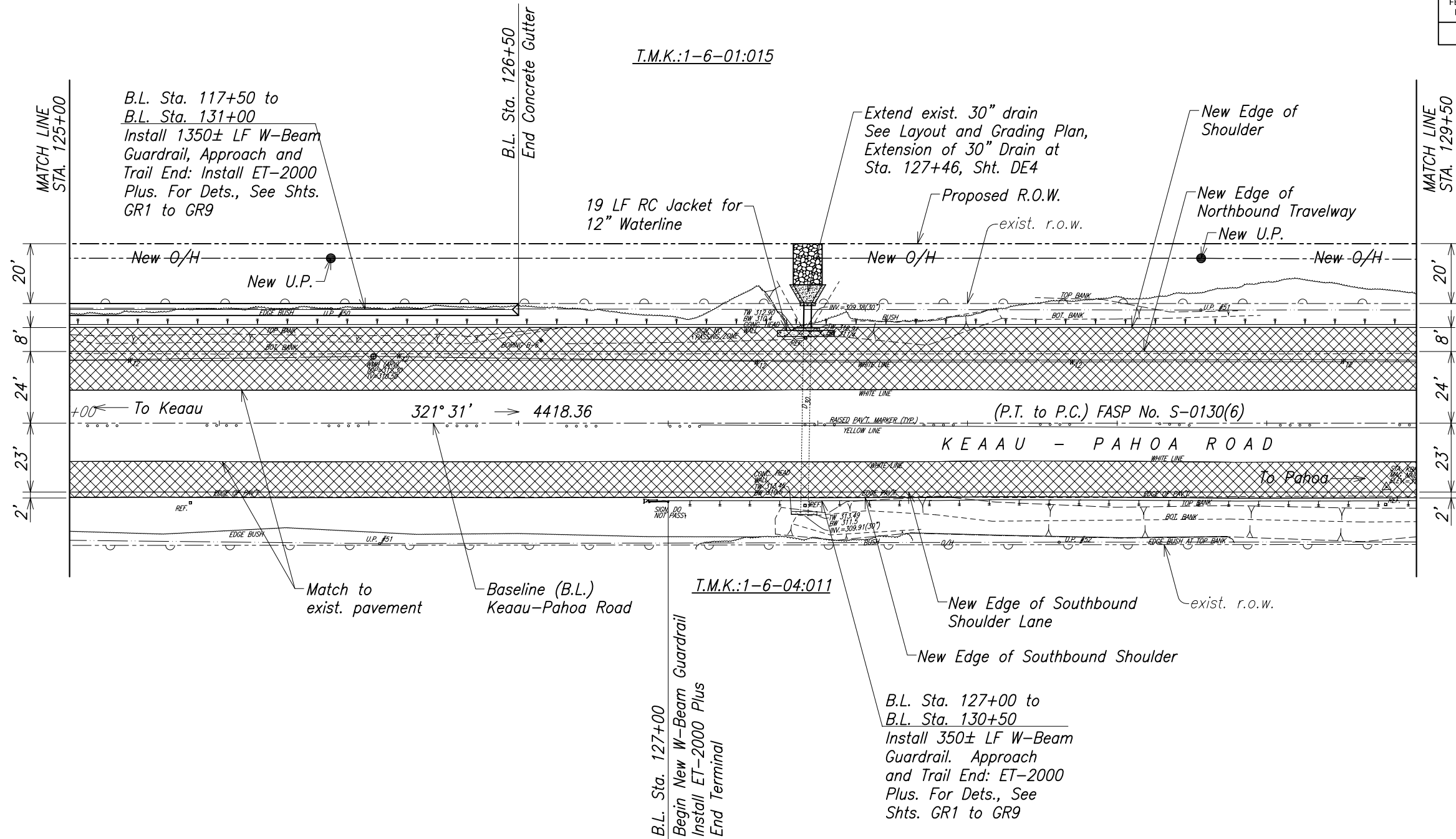
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APRIL 30, 2012
 WILSON OKAMOTO CORPORATION LIC. EXP. DATE

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

ROADWAY PLAN
Keaau-Pahoa Road, Shoulder Lane Conversion
Keaau Bypass Road to Shower Drive
Fed. Aid Proj. No. STP-0130(28)
Scale: As Noted Date: December 2010
SHEET No. RP12 OF 28 SHEETS

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	STP-0130(28)	2010	44	317



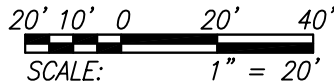
SURVEY PLOTTED BY	DATE
DRAWN BY	
TRACED BY	
NOTED BY	
QUANTITIES BY	
CHECKED BY	

ORIGINAL PLAN	No.
NOTE BOOK	
DATE	

Legend:

 New A.C. Pavement

GRAPHIC SCALE:



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WILSON OKAMOTO CORPORATION LIC. EXP. DATE

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

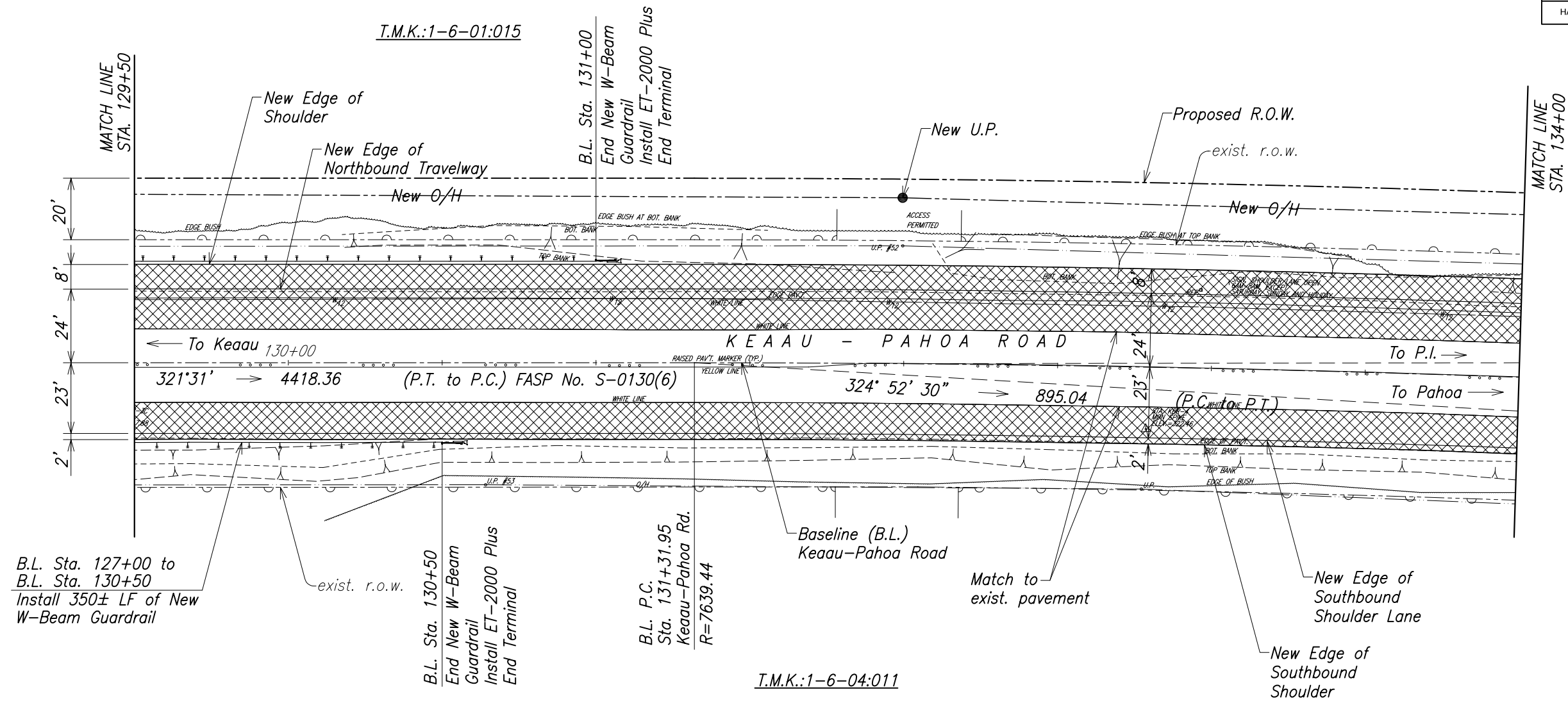
ROADWAY PLAN

Keaau-Pahoa Road, Shoulder Lane Conversion
Keaau Bypass Road to Shower Drive
Fed. Aid Proj. No. STP-0130(28)

Scale: As Noted Date: December 2010

SHEET No. RP13 OF 28 SHEETS

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	STP-0130(28)	2010	45	317



B.L. Keaau-Pahoa Road

Curve Data

$\Delta = 6^{\circ} 43' 00''$
 $\Delta/2 = 3^{\circ} 21' 30''$
 $R = 7639.44$
 $T = 448.29$
 $Ch = 895.04$
 $Lc = 895.56$

Legend:

 New A.C. Pavement

GRAPHIC SCALE:

20' 10' 0 20' 40'

SCALE: 1" = 20'



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APRIL 30, 2012
WILSON OKAMOTO CORPORATION LIC. EXP. DATE

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

ROADWAY PLAN

Keaau-Pahoa Road, Shoulder Lane Conversion

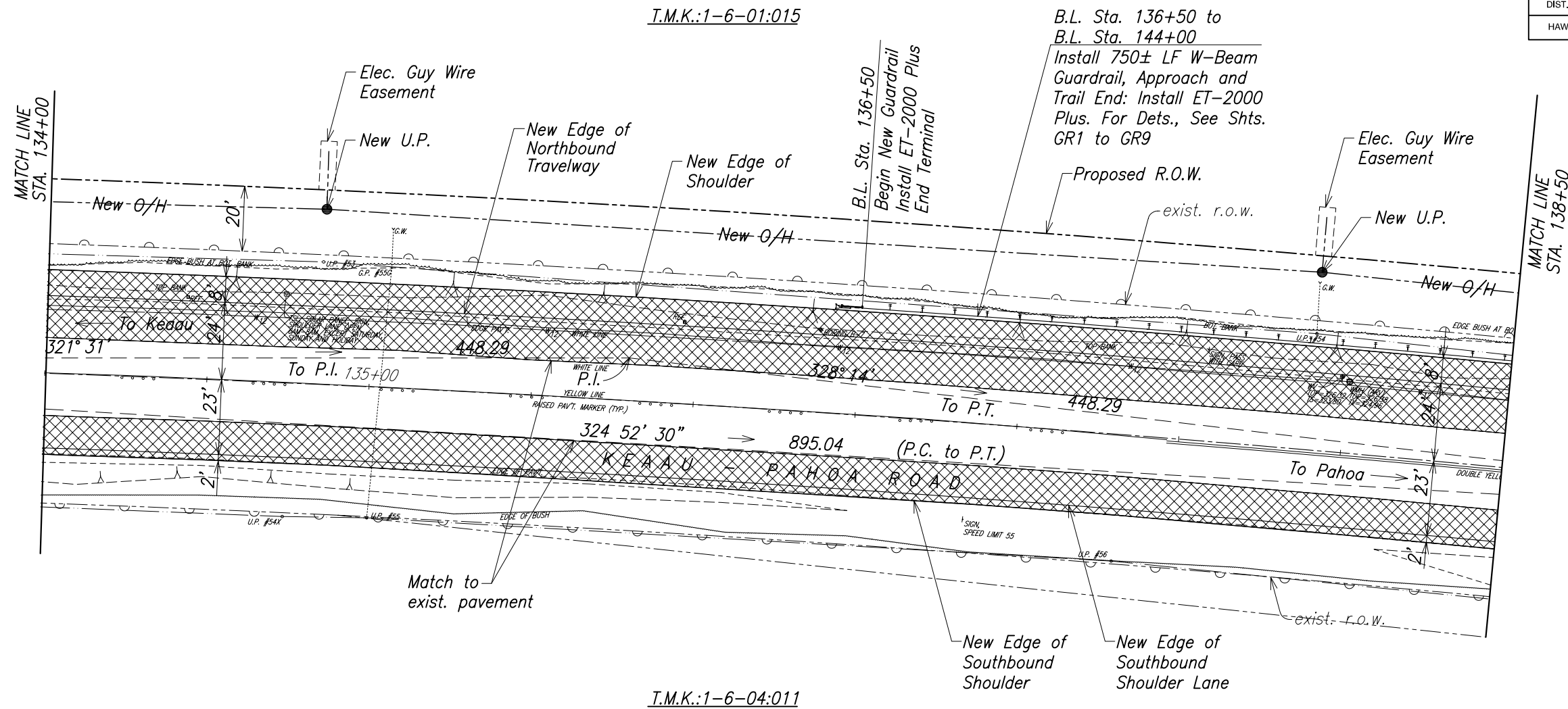
Keaau Bypass Road to Shower Drive

Fed. Aid Proj. No. STP-0130(28)

Scale: As Noted Date: December 2010

SHEET No. *RP14* OF *28* SHEETS

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	STP-0130(28)	2010	46	317



B.L. Keanu-Pahoa Road

Curve Data

$\Delta = 6^{\circ} 43' 00''$

$\Delta/2 = 3^{\circ} 21' 30''$

$R = 7639.44$

$T = 448.29$

$Ch = 895.04$

$Lc = 895.56$

T.M.K.:1-6-01:015

B.L. Sta. 136+50 to
B.L. Sta. 144+00
Install 750± LF W-Beam
Guardrail, Approach and
Trail End: Install ET-2000
Plus. For Dets., See Shts.
GR1 to GR9

T.M.K.:1-6-04:011

Legend:

 New A.C. Pavement

GRAPHIC SCALE:

20' 10' 0 20' 40'

SCALE: 1" = 20'



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APRIL 30, 2012
WILSON OKAMOTO CORPORATION LIC. EXP. DATE

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

ROADWAY PLAN

Keaau-Pahoa Road, Shoulder Lane Conversion

Keaau Bypass Road to Shower Drive

Fed. Aid Proj. No. STP-0130(28)

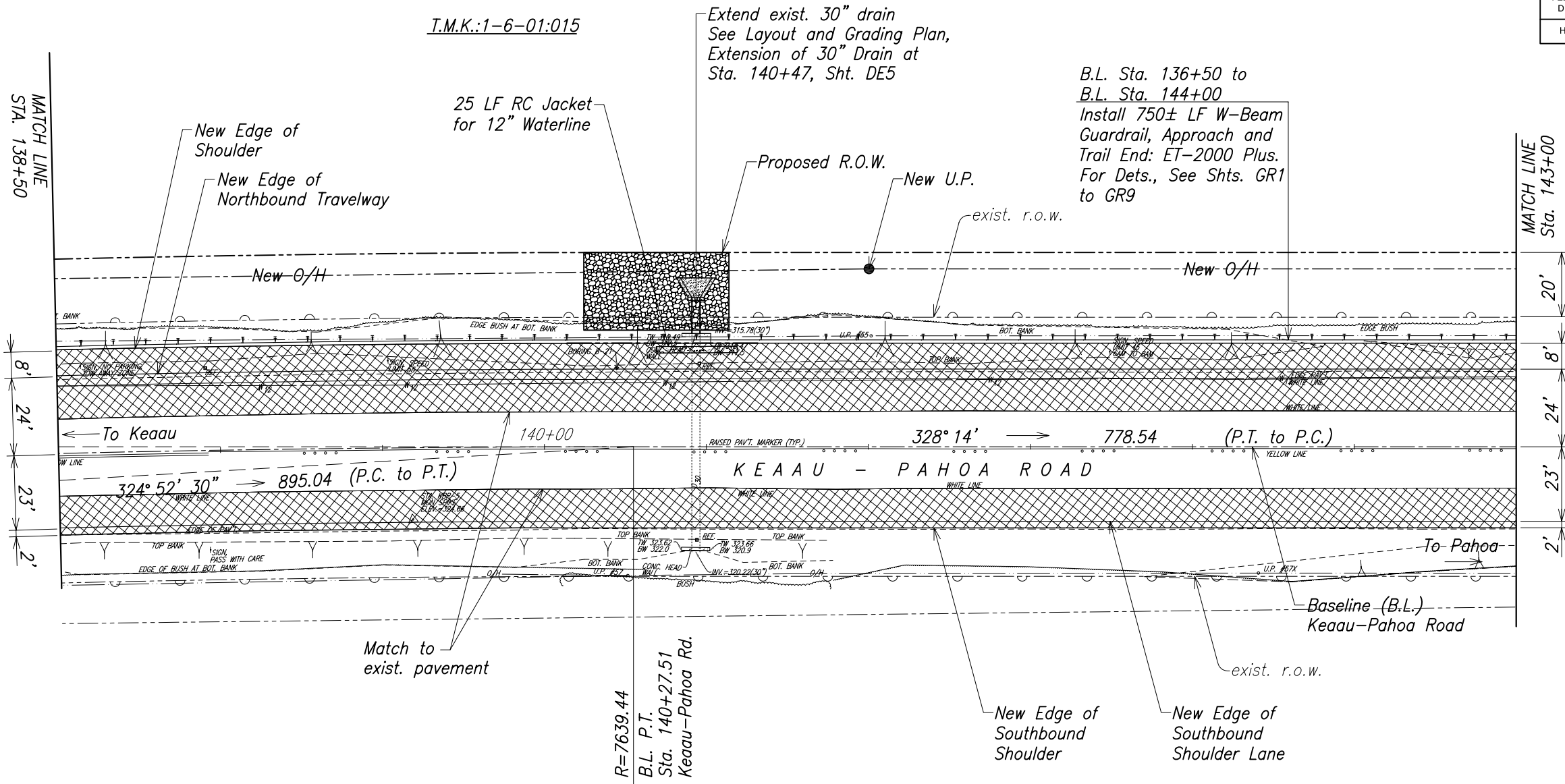
Scale: As Noted Date: December 2010

SHEET No. *RP15* OF *28* SHEETS

FINAL DESIGN	46
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ORIGINAL PLAN	SURVEY PLOTTED BY _____ DATE _____
NOTE BOOK	DRAWN BY _____
	TRACED BY _____
	DESIGNED BY _____
	QUANTITIES BY _____
No. _____	CHECKED BY _____

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	STP-0130(28)	2010	47	317



B.L. Keaau-Pahoa Road
Curve Data
 $\Delta = 6^\circ 43' 00''$
 $\Delta/2 = 3^\circ 21' 30''$
 $R = 7639.44$
 $T = 448.29$
 $Ch = 895.04$
 $Lc = 895.56$

SURVEY PLOTTED BY	DATE
DRAWN BY	
TRACED BY	
QUANTITIES BY	
CHECKED BY	

ORIGINAL PLAN	No.
NOTE BOOK	
CHECKED BY	

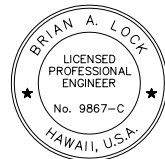
Legend:

 New A.C. Pavement

GRAPHIC SCALE:

20' 10' 0 20' 40'

SCALE: 1" = 20'



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APRIL 30, 2012
WILSON OKAMOTO CORPORATION LIC. EXP. DATE

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

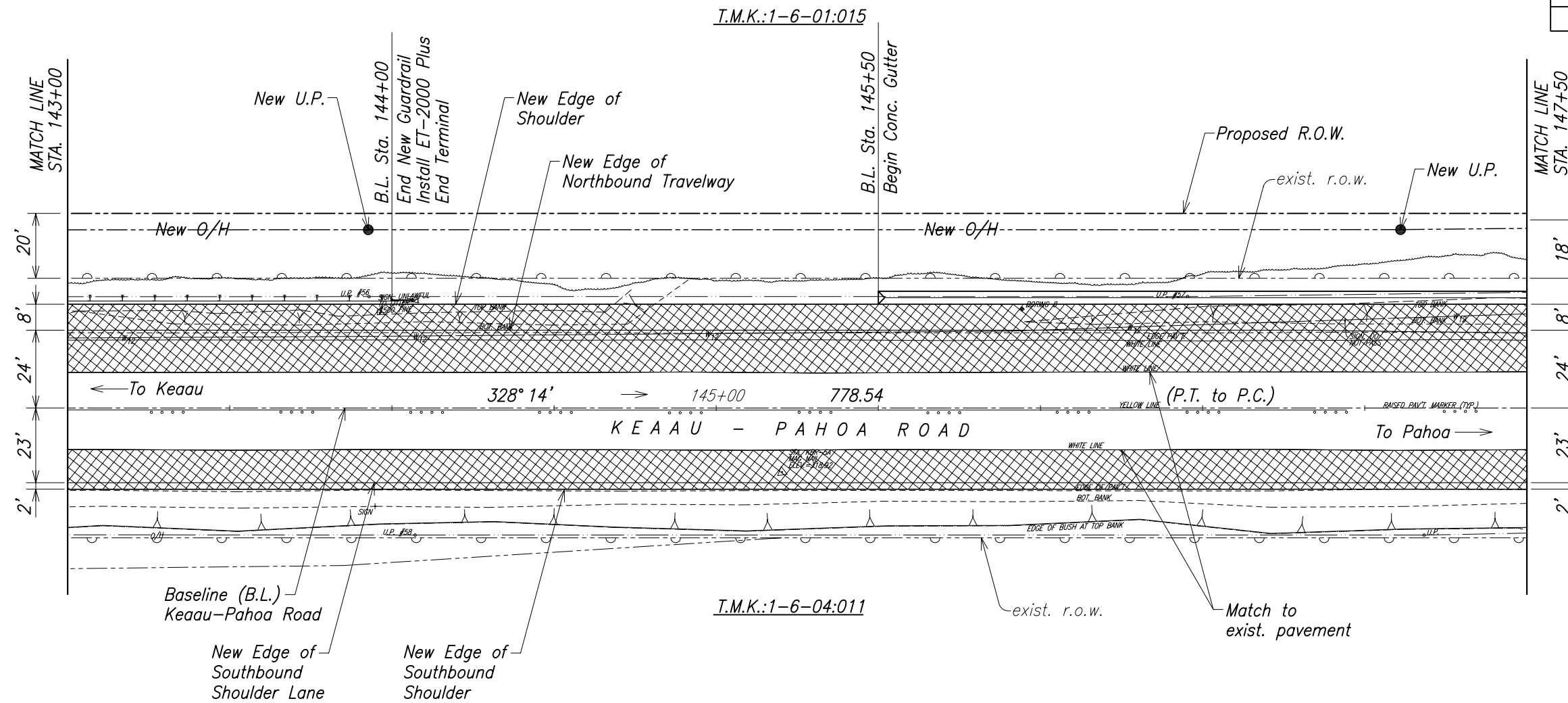
ROADWAY PLAN

Keaau-Pahoa Road, Shoulder Lane Conversion
Keaau Bypass Road to Shower Drive
Fed. Aid Proj. No. STP-0130(28)

Scale: As Noted Date: December 2010

SHEET No. RP16 OF 28 SHEETS

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	STP-0130(28)	2010	48	317



True North
Scale: 1"=20'

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

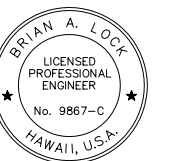
Legend:

 New A.C. Pavement

GRAPHIC SCALE:

20' 10' 0 20' 40'

SCALE: 1" = 20'



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APRIL 30, 2012
WILSON OKAMOTO CORPORATION LIC. EXP. DATE

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

ROADWAY PLAN

Keaau-Pahoa Road, Shoulder Lane Conversion

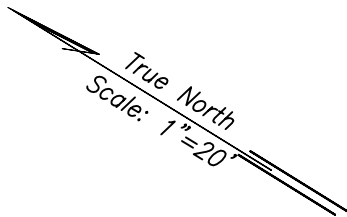
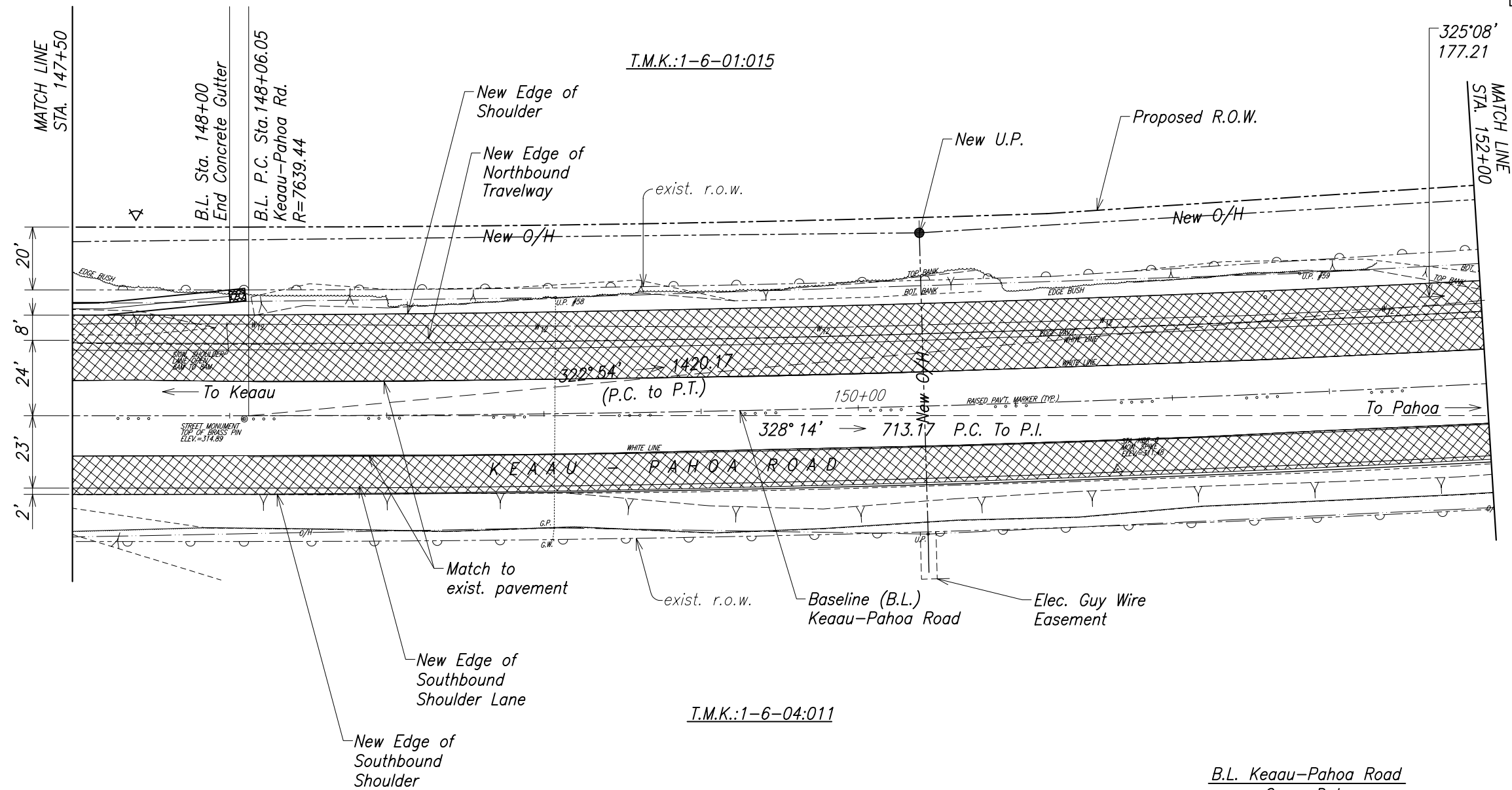
Keaau Bypass Road to Shower Drive

Fed. Aid Proj. No. STP-0130(28)

Scale: As Noted Date: December 2010

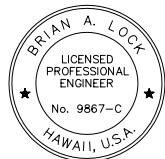
SHEET No. *RP17* OF *28* SHEETS

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	STP-0130(28)	2010	49	317



B.L. Keaau-Pahoa Road
Curve Data

Δ	=	10° 40' 00"
$\Delta/2$	=	5° 20' 00"
R	=	7639.44
T	=	713.17
Ch	=	1420.17



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WILSON OKAMOTO CORPORATION
APRIL 30, 2012
LIC. EXP. DATE

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

ROADWAY PLAN

Keaau-Pahoa Road, Shoulder Lane Conversion
Keaau Bypass Road to Shower Drive
Fed. Aid Proj. No. STP-0130(28)

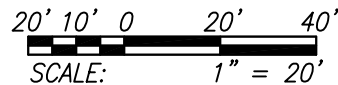
Scale: As Noted Date: December 2010

SHEET No. RP18 OF 28 SHEETS

Legend:

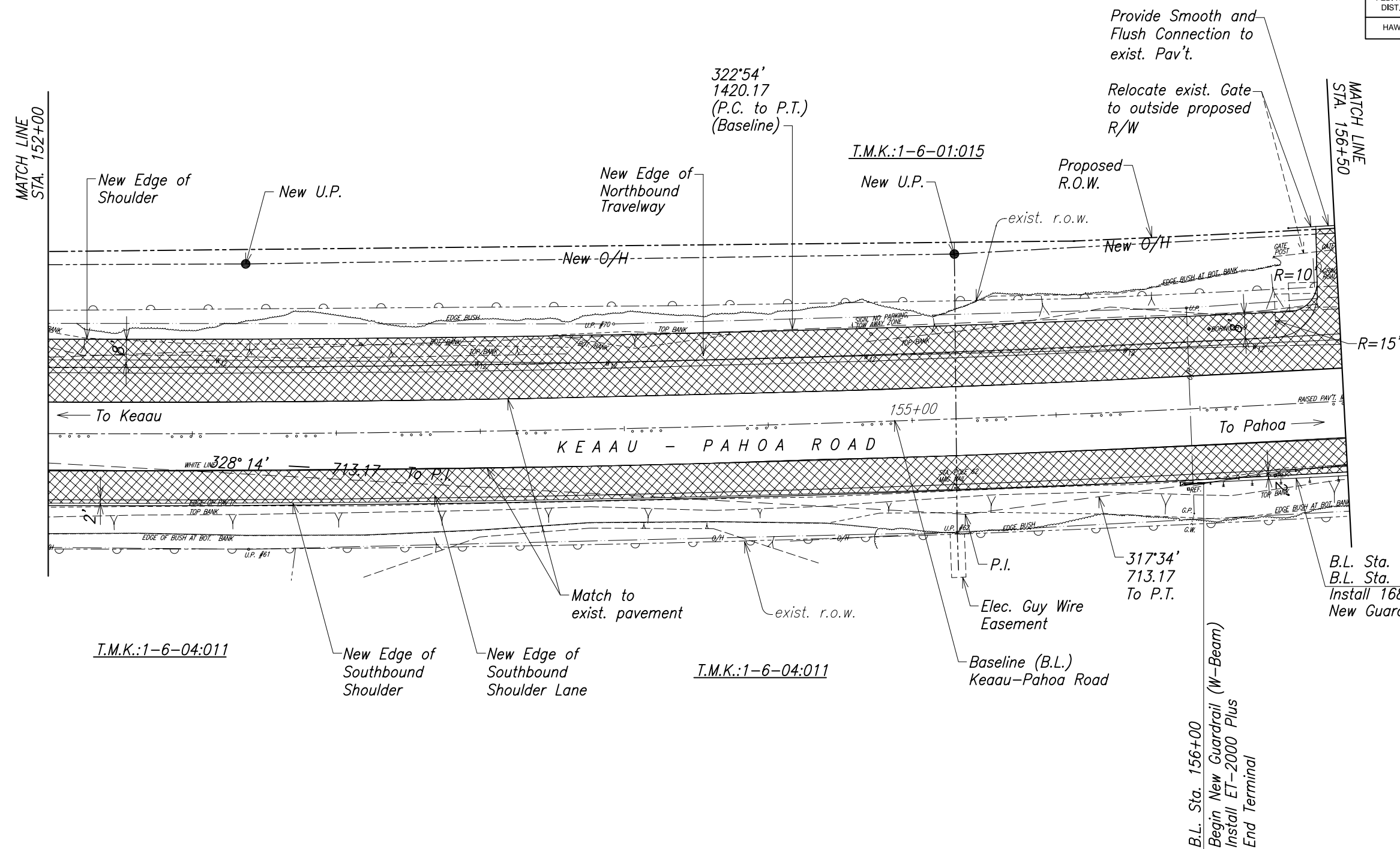
 New A.C. Pavement

GRAPHIC SCALE:



ORIGINAL PLAN	DATE
DRAWN BY	
DESIGNED BY	
NOTED BY	
CHECKED BY	
No.	

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	STP-0130(28)	2010	50	317



B.L. Keaau-Pahoa Road

Curve Data

$\Delta = 10^{\circ} 40' 00''$

$\Delta/2 = 5^{\circ} 20' 00''$

$R = 7639.44$

$T = 713.17$

$Ch = 1420.17$

$Lc = 1422.22$

B.L. Sta. 156+00 to
B.L. Sta. 157+68
Install 168± LF of
New Guardrail

*B.L. Sta. 156+00
Begin New Guardrail (W-Beam)
Install ET-2000 Plus
End Terminal*

Legend:

 New A.C. Pavement

GRAPHIC SCALE:

20' 10' 0 20' 40'

SCALE: 1" = 20'



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WILSON OKAMOTO CORPORATION APRIL 30, 2012
LIC. EXP. DATE

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

ROADWAY PLAN

Keaau-Pahoa Road, Shoulder Lane Conversion

Keaau Bypass Road to Shower Drive

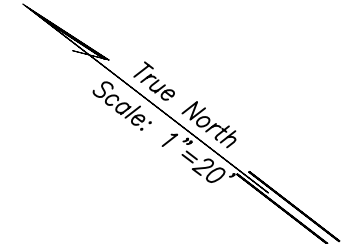
Fed. Aid Proj. No. STP-0130(28)

Scale: As Noted Date: December 2010

SHEET No. *RP19* OF *28* SHEETS

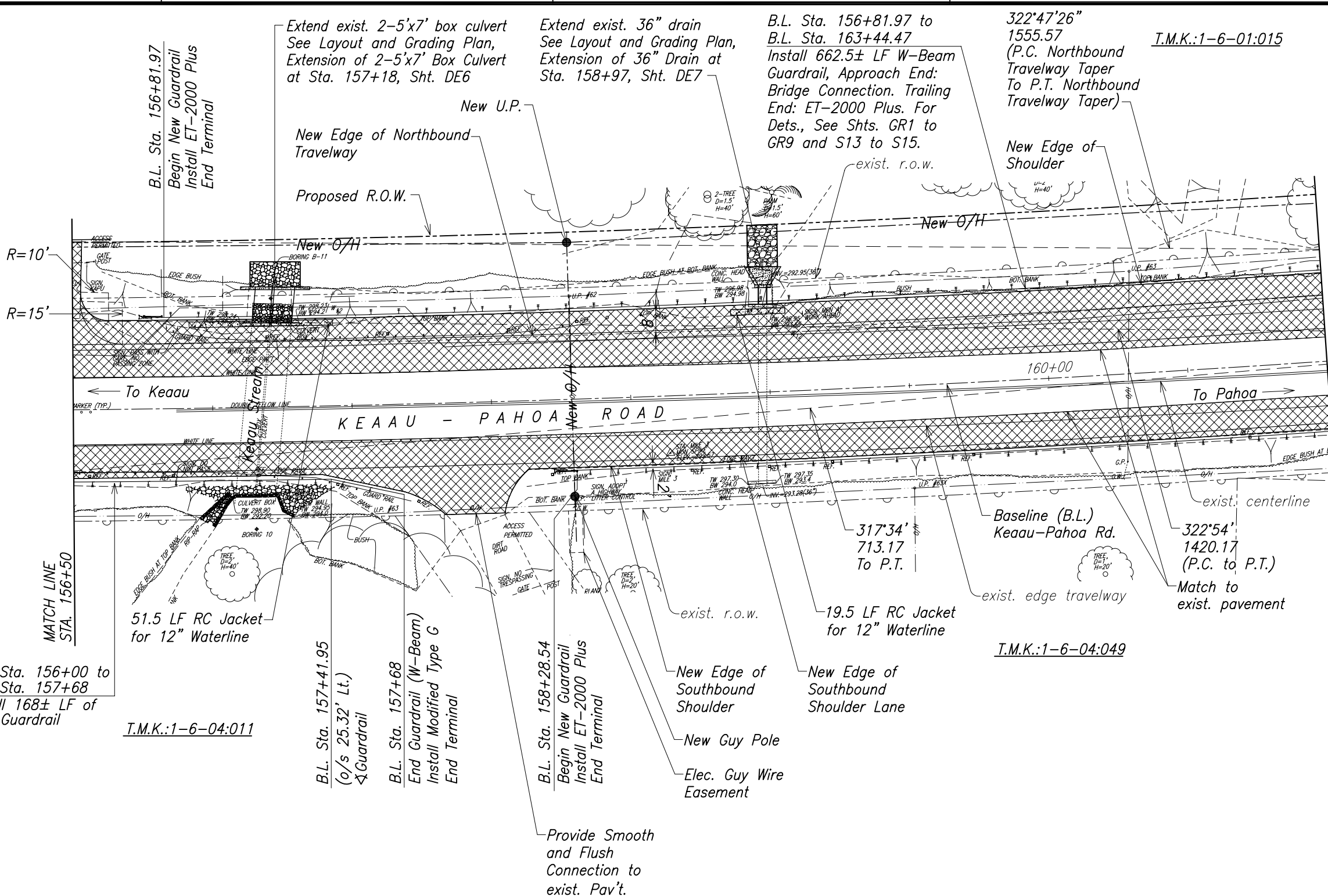
ORIGINAL PLAN	SURVEY PLOTTED BY _____ DATE _____
NOTE BOOK	DRAWN BY _____
	TRACED BY _____
	DESIGNED BY _____
	QUANTITIES BY _____
No. _____	CHECKED BY _____

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	STP-0130(28)	2010	51	317



B.L. Keaau-Pahoa Road
Curve Data

Δ	=	10° 40' 00"
$\Delta/2$	=	5° 20' 00"
R	=	7639.44
T	=	713.17
Ch	=	1420.17
Lc	=	1422.22



SURVEY PLOTTED BY	DATE
DRAWN BY	
DESIGNED BY	
QUANTITIES BY	
CHECKED BY	

ORIGINAL PLAN	No.
NOTE BOOK	
CHECKED BY	

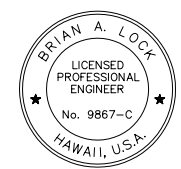
Legend:

New A.C. Pavement

GRAPHIC SCALE:

20' 10' 0 20' 40'

SCALE: 1" = 20'



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APRIL 30, 2012
WILSON OKAMOTO CORPORATION LIC. EXP. DATE

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

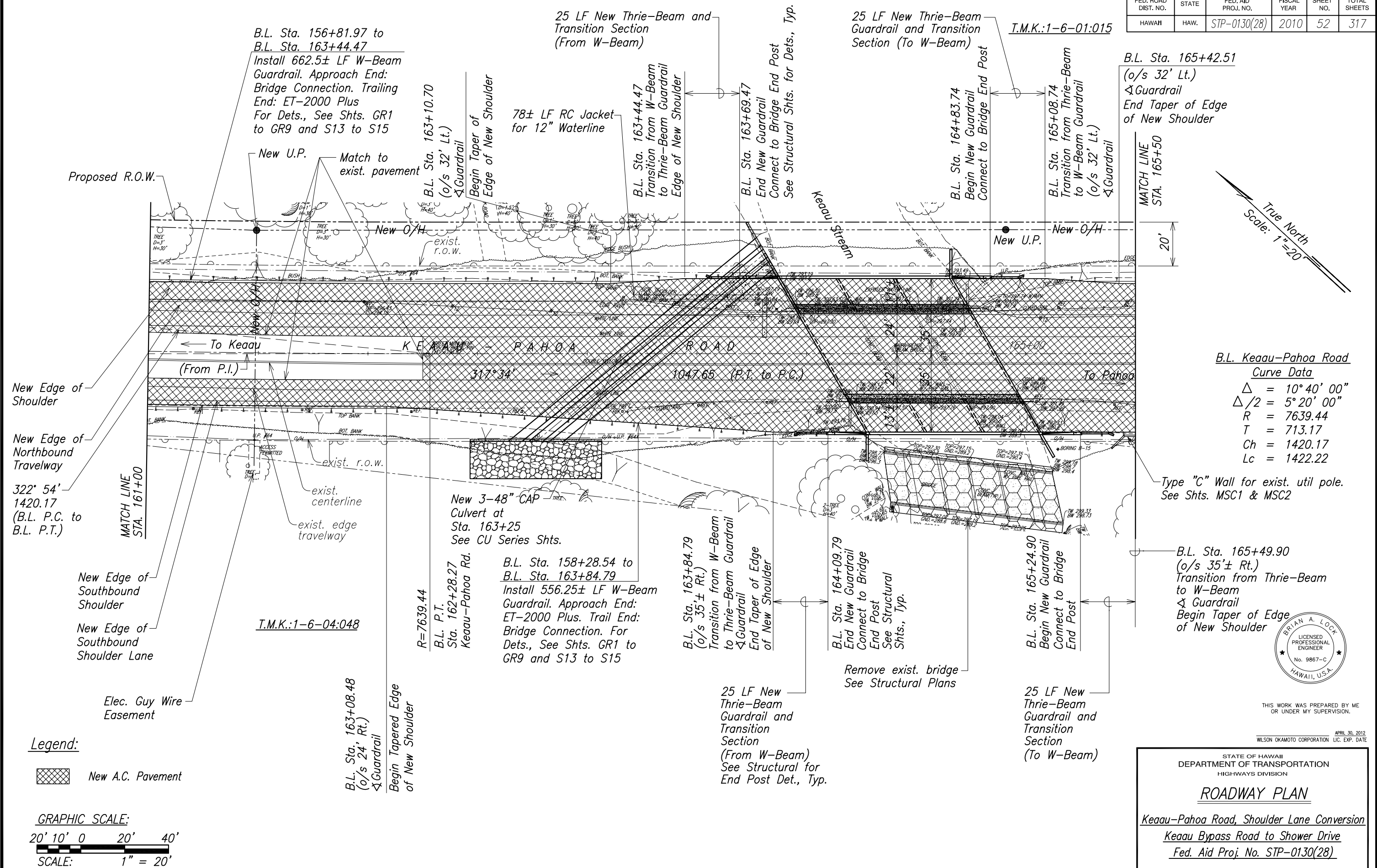
ROADWAY PLAN

Keaau-Pahoa Road, Shoulder Lane Conversion
Keaau Bypass Road to Shower Drive
Fed. Aid Proj. No. STP-0130(28)

Scale: As Noted Date: December 2010

SHEET No. RP20 OF 28 SHEETS

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	STP-0130(28)	2010	52	317



ORIGINAL PLAN	SURVEY PLOTTED BY _____	DATE _____
NOTE BOOK	DRAWN BY _____	" "
	TRACED BY _____	" "
	DESIGNED BY _____	" "
	QUANTITIES BY _____	" "
N ^o . _____	CHECKED BY _____	" "

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	STP-0130(28)	2010	53	317

B.L. Sta. 165+08.74 to
B.L. Sta. 168+50
Install 342± LF W-Beam
Guardrail. Approach End:
ET-2000 Plus. Trail End:
Bridge Connection.
For Dets., See Shts. GR1
to GR9 and S13 to S15

T.M.K.:1-6-01:015

B.L. Sta. 168+50
End New Guardrail
Install ET-2000 Plus
End Terminal

Proposed R.O.W.

exist. r.o.w.

True North
Scale: 1"=20'

Match to
exist. pavement

MATCH LINE
STA. 165+50

MATCH LINE
STA. 170+00

B.L. Sta. 165+49.90 to
B.L. Sta. 174+87
Install 937± LF W-Beam
Guardrail. Approach End:
Bridge Connection. Trailing
End: ET-2000 Plus
For Dets., See Shts. GR1
to GR9 and S13 to S15

T.M.K.:1-6-04:048

B.L. Sta. 167+26.12
(o/s 24' Lt.)
End Taper of Edge
of New Shoulder

Lot 65-A-3-B
(Map 171)

Parcel 30A

Baseline (B.L.)
Keaau-Pahoa Road

New Edge of
Southbound
Travelway

New Edge of
Southbound
Shoulder

New Edge of
Southbound
Shoulder Lane

New Edge of
Shoulder

New U.P.

New Edge of
Northbound Travelway

New O/H

New O/H

To Keaau

To Pahoa

KEAAU

PAHOA ROAD

(P.T. to P.C.)

exist. centerline

exist. r.o.w.

exist. edge travelway

New Edge of
Southbound
Travelway

New Edge of
Southbound
Shoulder

New Edge of
Southbound
Shoulder Lane

New Edge of
Shoulder

New U.P.

New Edge of
Northbound Travelway

New O/H

New O/H

To Keaau

To Pahoa

KEAAU

PAHOA ROAD

(P.T. to P.C.)

exist. centerline

exist. r.o.w.

exist. edge travelway

New Edge of
Southbound
Travelway

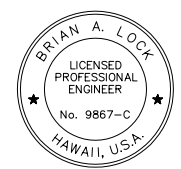
New Edge of
Southbound
Shoulder

New Edge of
Southbound
Shoulder Lane

Legend:

 New A.C. Pavement

GRAPHIC SCALE:
20' 10' 0 20' 40'
SCALE: 1" = 20'

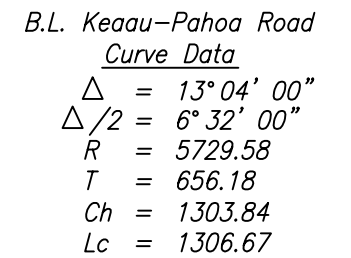


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APRIL 30, 2012
WILSON OKAMOTO CORPORATION LIC. EXP. DATE

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION
ROADWAY PLAN
Keaau-Pahoa Road, Shoulder Lane Conversion
Keaau Bypass Road to Shower Drive
Fed. Aid Proj. No. STP-0130(28)
Scale: As Noted Date: December 2010
SHEET No. RP22 OF 28 SHEETS

True North
Scale: 1"=20'



B.L. Sta. 165+49.90 to
B.L. Sta. 174+87
Install 937± LF W-Beam
Guardrail. Approach End:
Bridge Connection. Trail
End: ET-2000 Plus.
For Dets., See Shts. GR1
to GR9 and S13 to S15

B.L. P.C. Sta.
172+75.92
Keeau-Pahoa Rd.
R=5729.58

New Edge of
Southbound
Shoulder Lane

T.M.K.:1-6-01:015

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

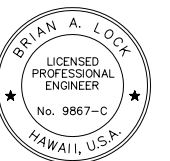
Legend:

 New A.C. Pavement

GRAPHIC SCALE:

20' 10' 0 20' 40'

SCALE: 1" = 20'



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WILSON OKAMOTO CORPORATION APRIL 30, 2012
LIC. EXP. DATE

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

ROADWAY PLAN

Keaau-Pahoa Road, Shoulder Lane Conversion

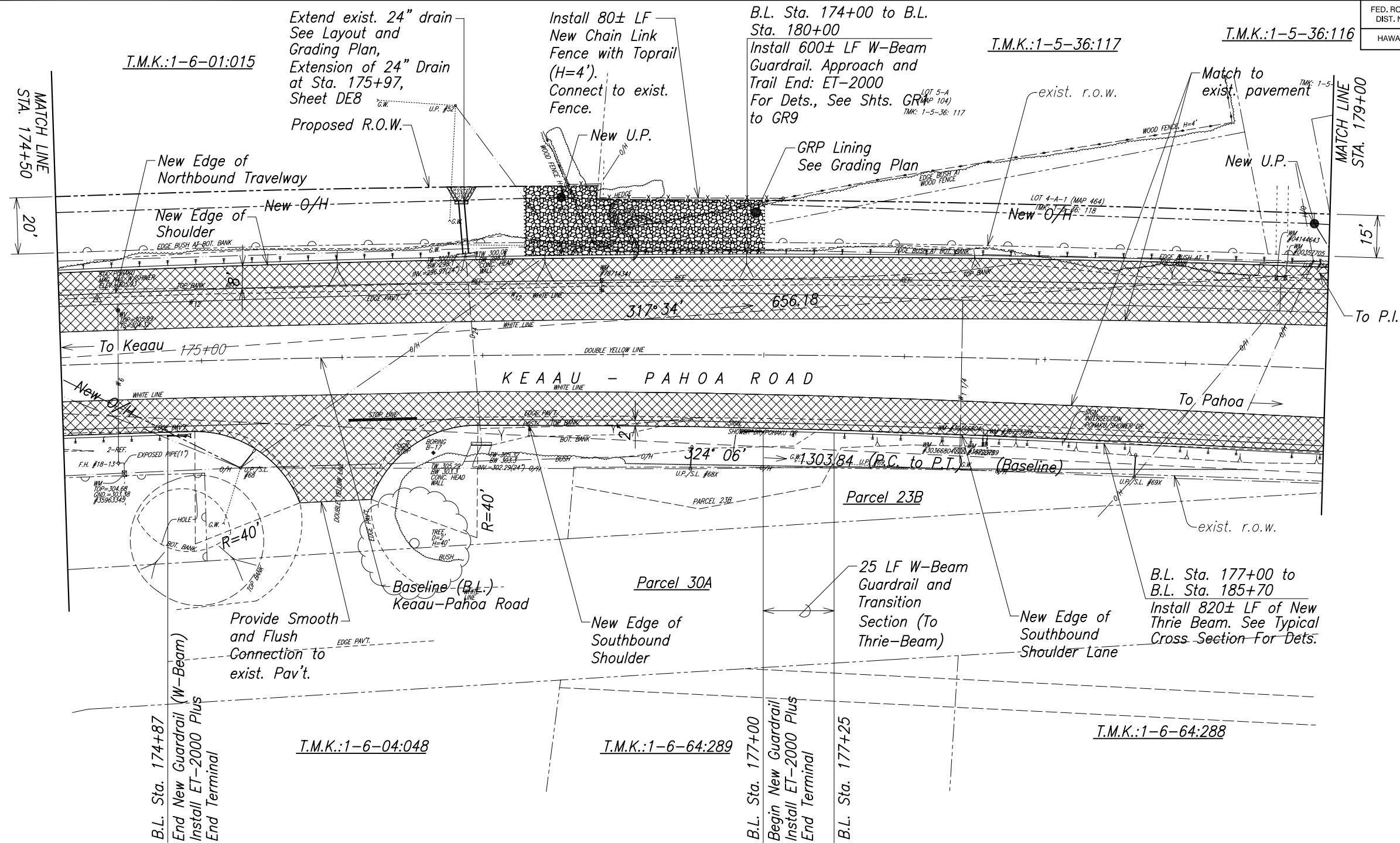
Keaau Bypass Road to Shower Drive

Fed. Aid Proj. No. STP-0130(28)

Scale: As Noted Date: December 2010

SHEET No. *RP23* OF *28* SHEETS

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	STP-0130(28)	2010	55	317

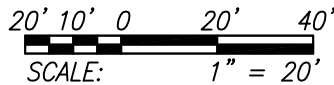


SURVEY PLOTTED BY	DATE
DRAWN BY	
CHECKED BY	
NOTE BOOK	
No.	

Legend:

New A.C. Pavement

GRAPHIC SCALE:



B.L. Keaau-Pahoa Road

Curve Data

$\Delta = 13^\circ 04' 00''$
 $\Delta/2 = 6^\circ 32' 00''$
 $R = 5729.58$
 $T = 656.18$
 $Ch = 1303.84$
 $Lc = 1306.67$



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APRIL 30, 2012
WILSON OKAMOTO CORPORATION LIC. EXP. DATE

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

ROADWAY PLAN

Keaau-Pahoa Road, Shoulder Lane Conversion

Keaau Bypass Road to Shower Drive

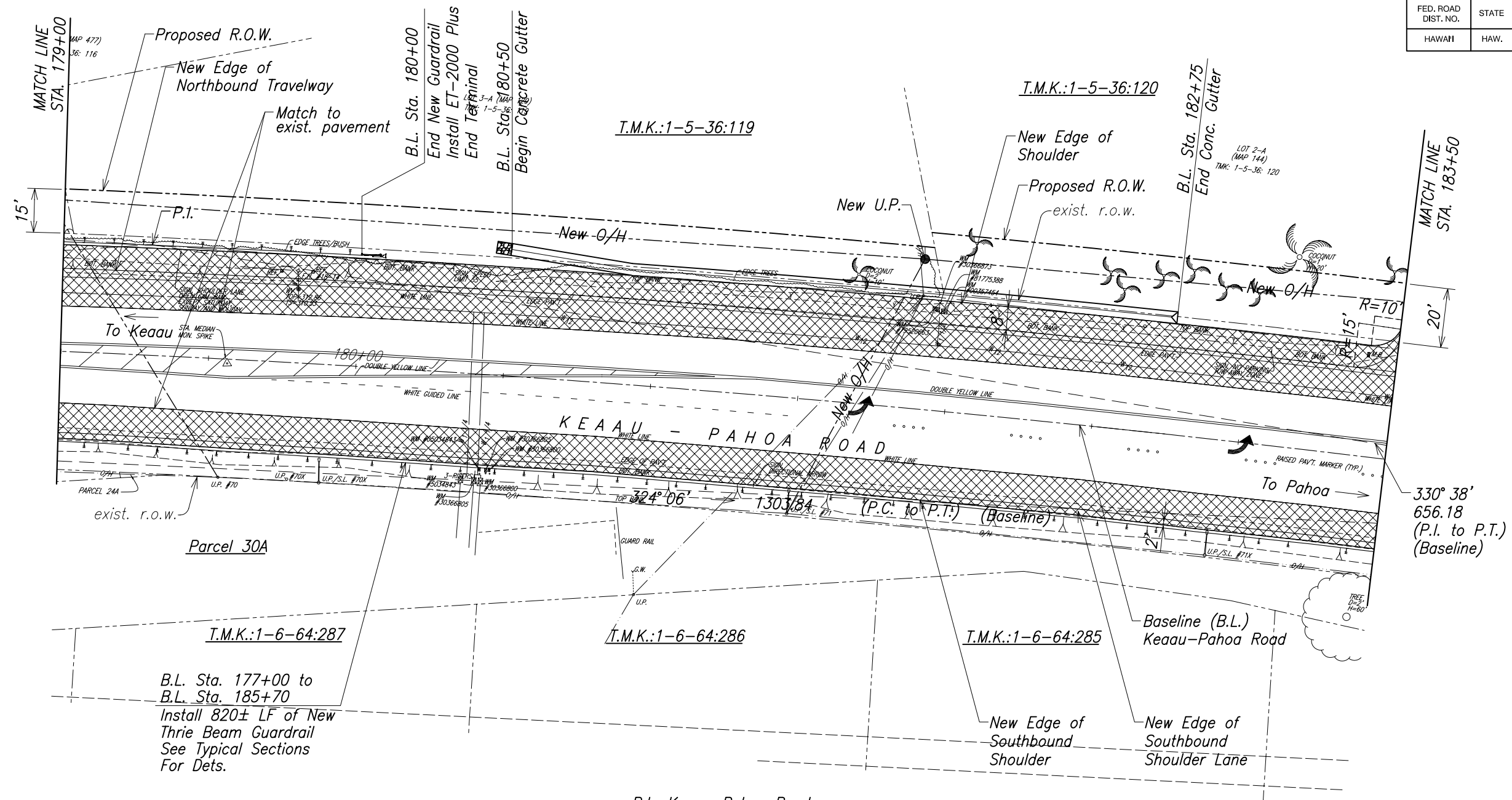
Fed. Aid Proj. No. STP-0130(28)

Scale: As Noted Date: December 2010

SHEET No. RP24 OF 28 SHEETS

FINAL DESIGN 55

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	STP-0130(28)	2010	56	317



330° 38'
656.18
(P.I. to P.T.)
(Baseline)

B.L. Keaau-Pahoa Road
Curve Data

$$\begin{aligned}\Delta &= 13^{\circ} 04' 00'' \\ \Delta/2 &= 6^{\circ} 32' 00'' \\ R &= 5729.58 \\ T &= 656.18 \\ Ch &= 1303.84 \\ Lc &= 1306.67\end{aligned}$$

Legend:

 New A.C. Pavement

GRAPHIC SCALE:

20' 10' 0 20' 40'

SCALE: 1" = 20'



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APRIL 30, 2012
WILSON OKAMOTO CORPORATION LIC. EXP. DATE

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

ROADWAY PLAN

Keaau-Pahoa Road, Shoulder Lane Conversion

Keaau Bypass Road to Shower Drive

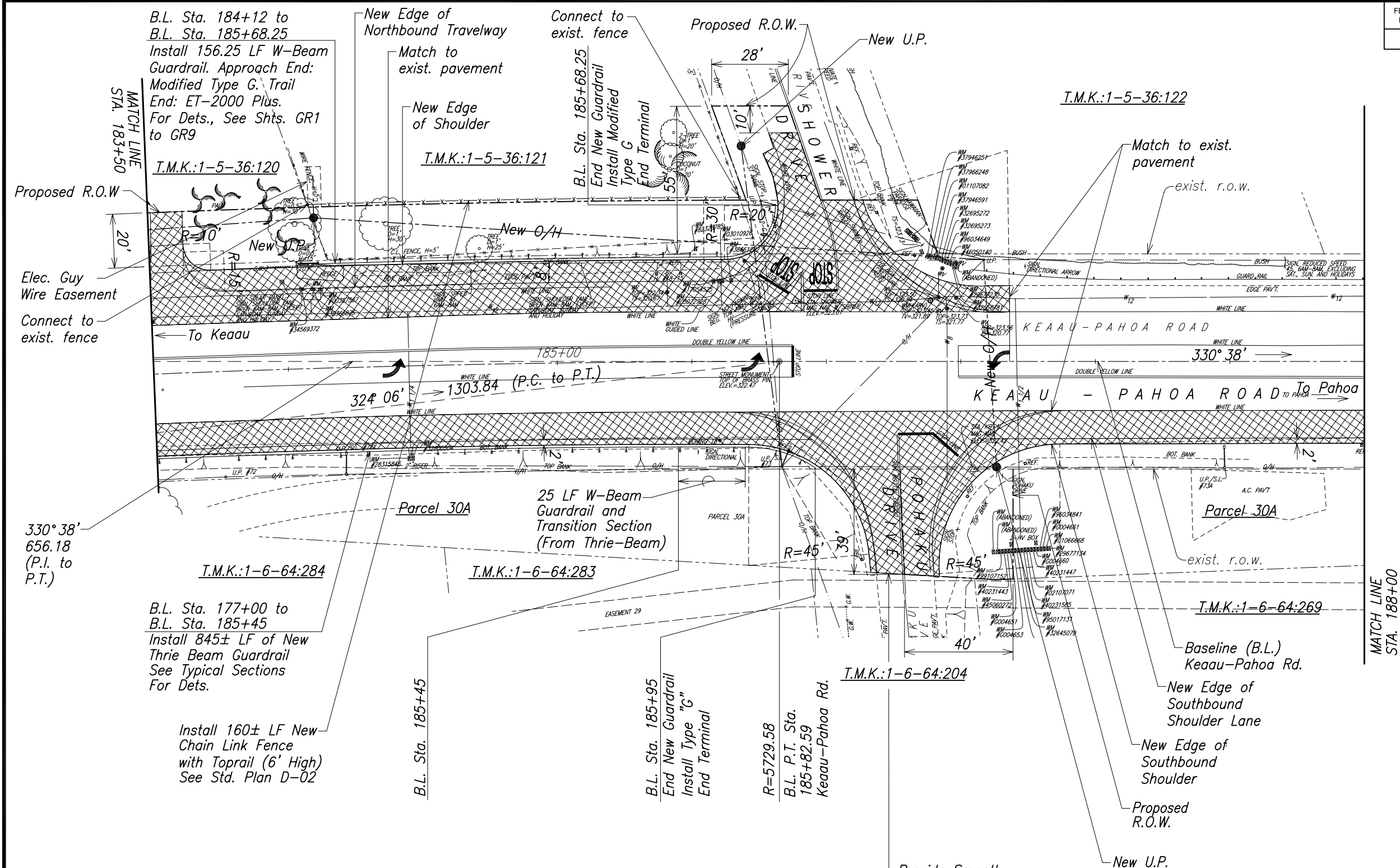
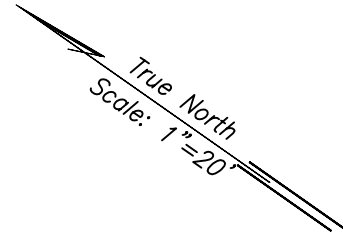
Fed. Aid Proj. No. STP-0130(28)

Scale: As Noted Date: December 2010

SHEET No. *RP25* OF *28* SHEETS

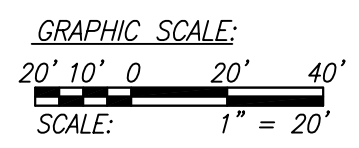
ORIGINAL PLAN	SURVEY PLOTTED BY _____ DATE _____
NOTE BOOK	DRAWN BY _____
	TRACED BY _____
	DESIGNED BY _____
	QUANTITIES BY _____
No. _____	CHECKED BY _____

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	STP-0130(28)	2010	57	317

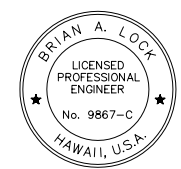


Legend:

New A.C. Pavement



B.L. Keaau-Pahoa Road	
Curve Data	
Δ	= 13° 04' 00"
$\Delta/2$	= 6° 32' 00"
R	= 5729.58
T	= 656.18
Ch	= 1303.84
Lc	= 1306.67



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APRIL 30, 2012
WILSON OKAMOTO CORPORATION LIC. EXP. DATE

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

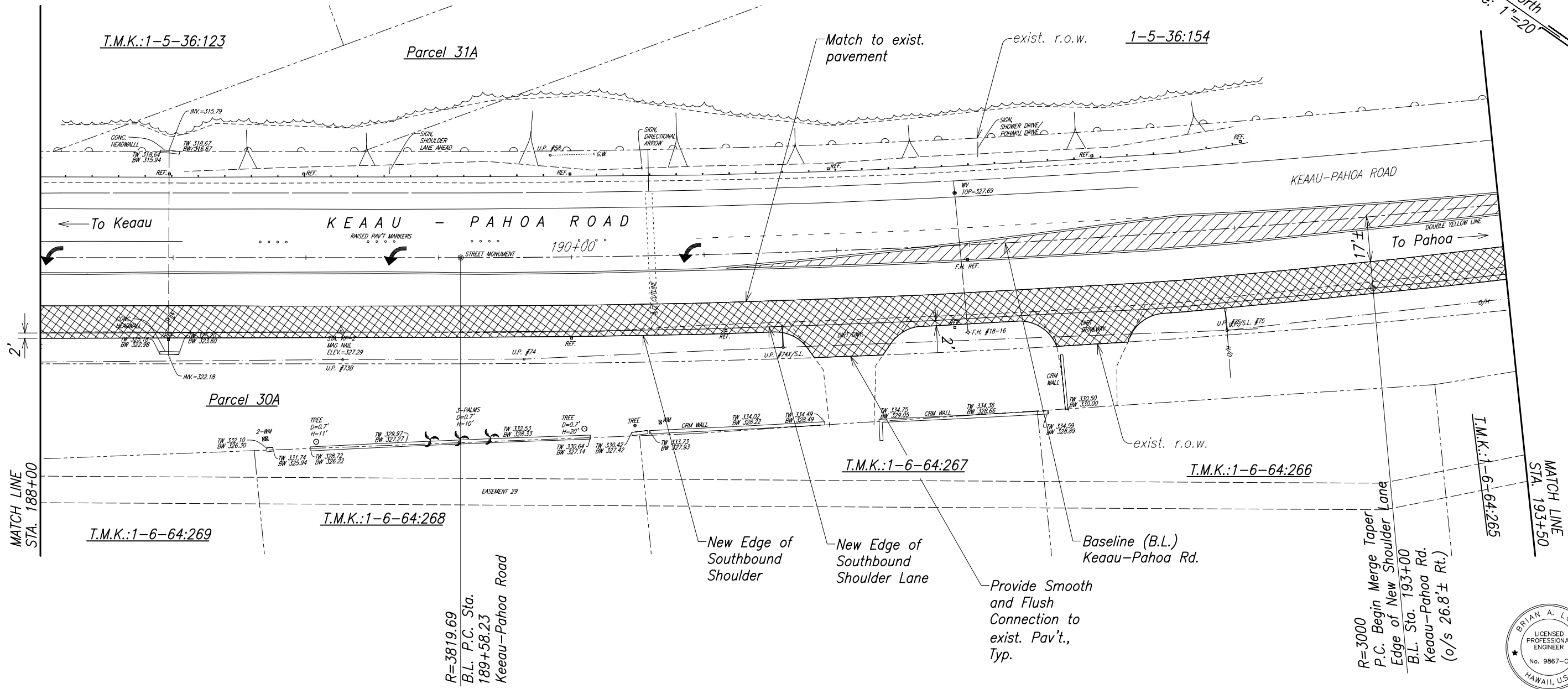
ROADWAY PLAN

Keaau-Pahoa Road, Shoulder Lane Conversion
Keaau Bypass Road to Shower Drive
Fed. Aid Proj. No. STP-0130(28)

Scale: As Noted Date: December 2010

SHEET No. RP26 OF 28 SHEETS

True North
Scale: 1"=20'



SURVEY PLOTTED BY	DATE
DRAWN BY	
FRONT VIEW	
NOTE BOOK	
QUANTITIES BY	
CHECKED BY	
No.	

Legend:
 New A.C. Pavement

GRAPHIC SCALE:
20' 10' 0 20' 40'
SCALE: 1" = 20'

B.L. Keauau-Pahoa Road	Shoulder Lane Edge Merge Taper
Curve Data	Curve Data
$\Delta = 15^{\circ}20'00''$	$\Delta = 10^{\circ}34'02''$
$\Delta/2 = 7^{\circ}40'00''$	$\Delta/2 = 5^{\circ}17'01''$
$R = 3819.69$	$R = 3000$
$T = 514.18$	$T = 277.43$
$Ch = 1019.17$	$Ch = 552.51$
$Lc = 1022.22$	$Lc = 553.29$



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WILSON OKAMOTO CORPORATION
APRIL 30, 2012
LIC. EXP. DATE

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

ROADWAY PLAN

Keauau-Pahoa Road, Shoulder Lane Conversion
Keauau Bypass Road to Shower Drive
Fed. Aid Proj. No. STP-0130(28)

Scale: As Noted Date: December 2010

SHEET No. RP27 OF 28 SHEETS

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	STP-0130(28)	2010	59	317

True North
Scale: 1"=20'

END PROJECT
Project No. STP-0130(28)
B.L. P.O.C. Sta. 198+50
Keaau-Pahoa Road

MATCH LINE
STA. 193+50

PONI MOI
AVENUE

← To Keaau

KEAAU - PAHOA ROAD

195+00

DOUBLE YELLOW LINE

WHITE LINE

To Pahoa →

12'
8'±
BOT. BANK
TOP BANK

New Edge of
Southbound
Shoulder Lane
New Edge of
Southbound
Shoulder

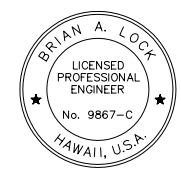
exist. r.o.w.

Baseline (B.L.)
Keaau-Pahoa Rd.

Provide Smooth and Flush
Connection to exist. Pav't.,
Typ.

Match New Edge of
Southbound Shoulder Lane
to exist. edge of
southbound travelway

R=3000
P.T. End Merge Taper
Edge of New Shoulder Lane
B.L. Sta. 198+50
Keaau-Pahoa Rd.
(o/s 12' Rt.)



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APRIL 30, 2012
WILSON OKAMOTO CORPORATION LIC. EXP. DATE

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION
ROADWAY PLAN
Keaau-Pahoa Road, Shoulder Lane Conversion
Keaau Bypass Road to Shower Drive
Fed. Aid Proj. No. STP-0130(28)
Scale: As Noted Date: December 2010
SHEET No. RP28 OF 28 SHEETS

B.L. Keaau-Pahoa Road	
Curve Data	
Δ	= 15°20'00"
$\Delta/2$	= 7°40'00"
R	= 3819.69
T	= 514.18
Ch	= 1019.17
Lc	= 1022.22

Shoulder Lane Edge Merge Taper	
Curve Data	
Δ	= 10°34'02"
$\Delta/2$	= 5°17'01"
R	= 3000
T	= 277.43
Ch	= 552.51
Lc	= 553.29

Legend:

New A.C. Pavement

GRAPHIC SCALE:
20' 10' 0 20' 40'
SCALE: 1" = 20'

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