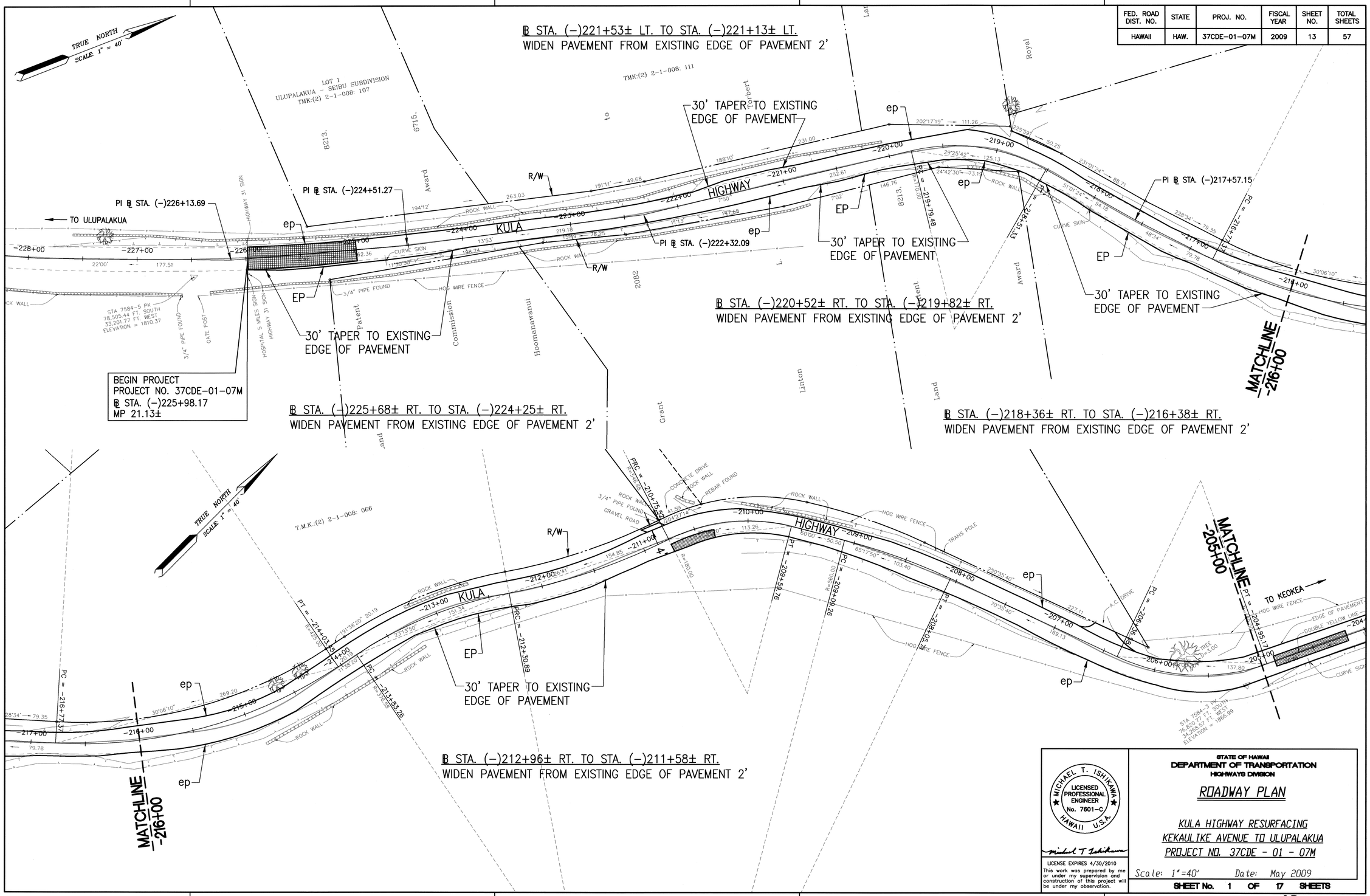
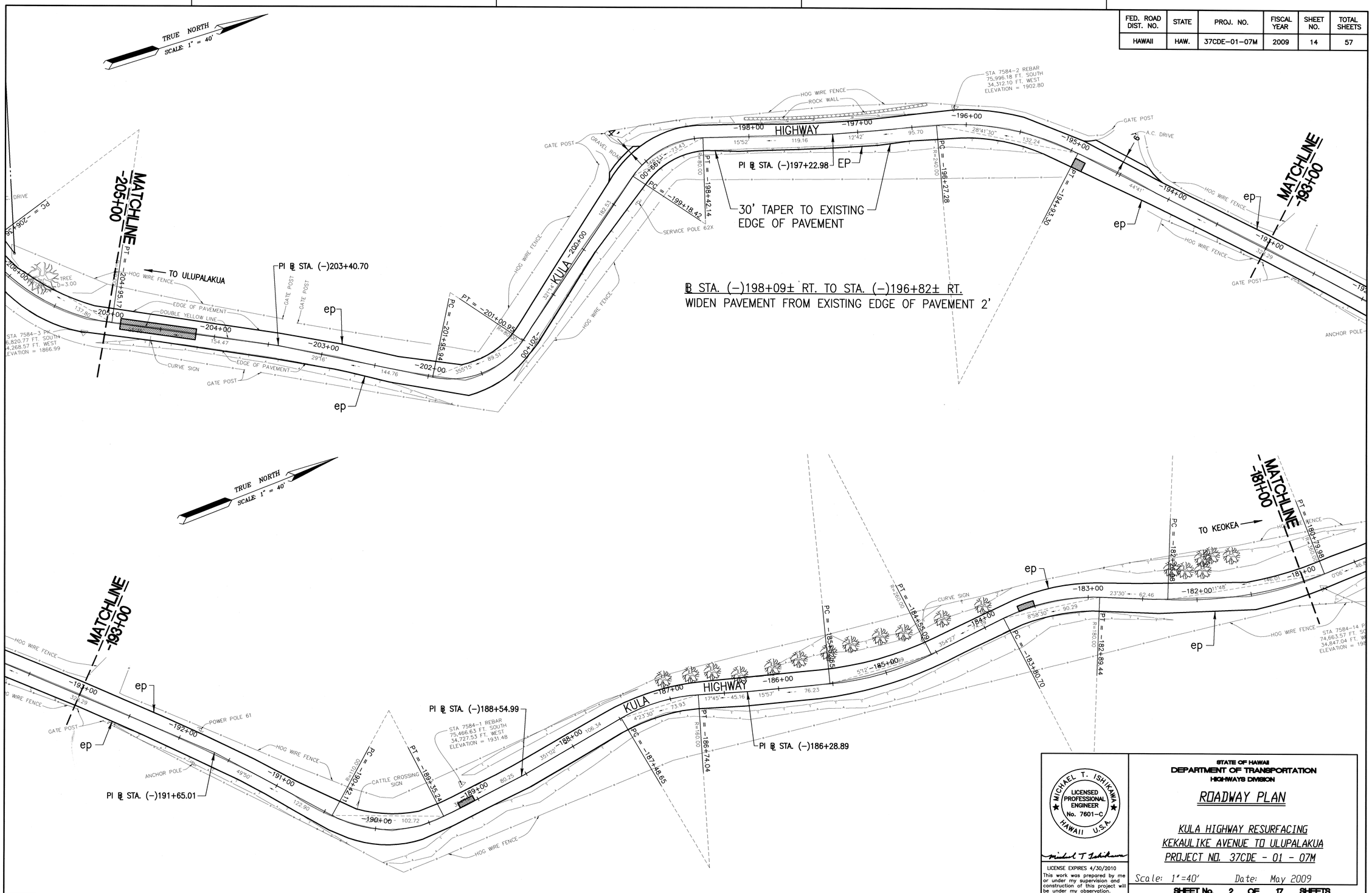
FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	37CDE-01-07M	2009	13	57



FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	37CDE-01-07M	2009	14	57



ORIGINAL PLAN	SURVEY PLOTTED BY	DATE
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NOTE BOOK	TRACED BY	
	DESIGNED BY	
No.	QUANTITIES BY	
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STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

MICHAEL T. ISHIKAWA
LICENSED PROFESSIONAL ENGINEER
No. 7601-C
HAWAII U.S.A.

Michael T. Ishikawa

LICENSE EXPIRES 4/30/2010

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ROADWAY PLAN

KULA HIGHWAY RESURFACING
KEKAULIKE AVENUE TO ULUPALAKUA
PROJECT NO. 37CDE - 01 - 07M

Scale: 1"=40' Date: May 2009

SHEET No. 2 OF 17 SHEETS

May 27, 2009 – 11:26am
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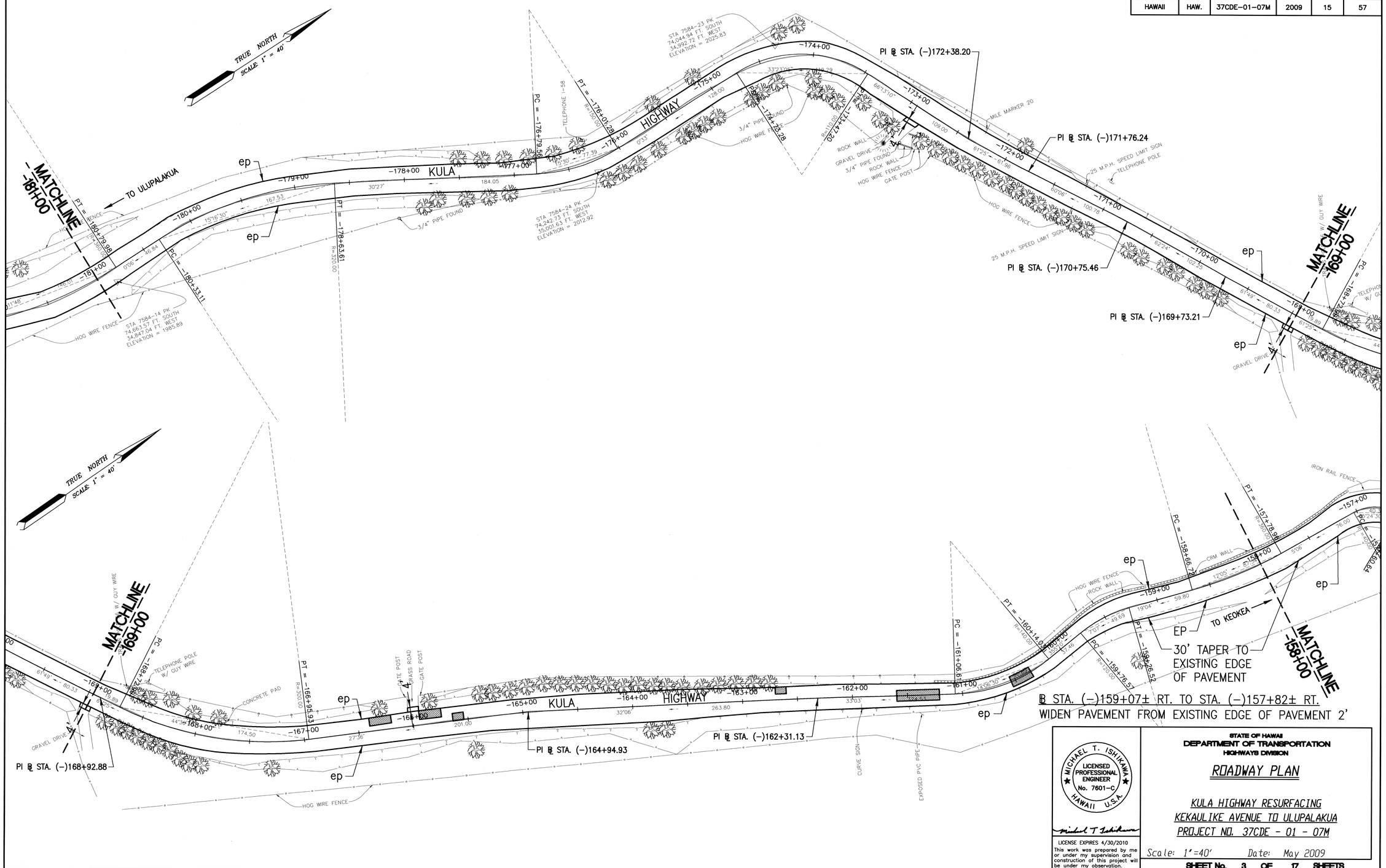
FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	37CDE-01-07M	2009	15	57



ORIGINAL PLAN	SURVEY PLOTTED BY	DATE
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No.	QUANTITIES BY	
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May 27, 2009 – 11:32am
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STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

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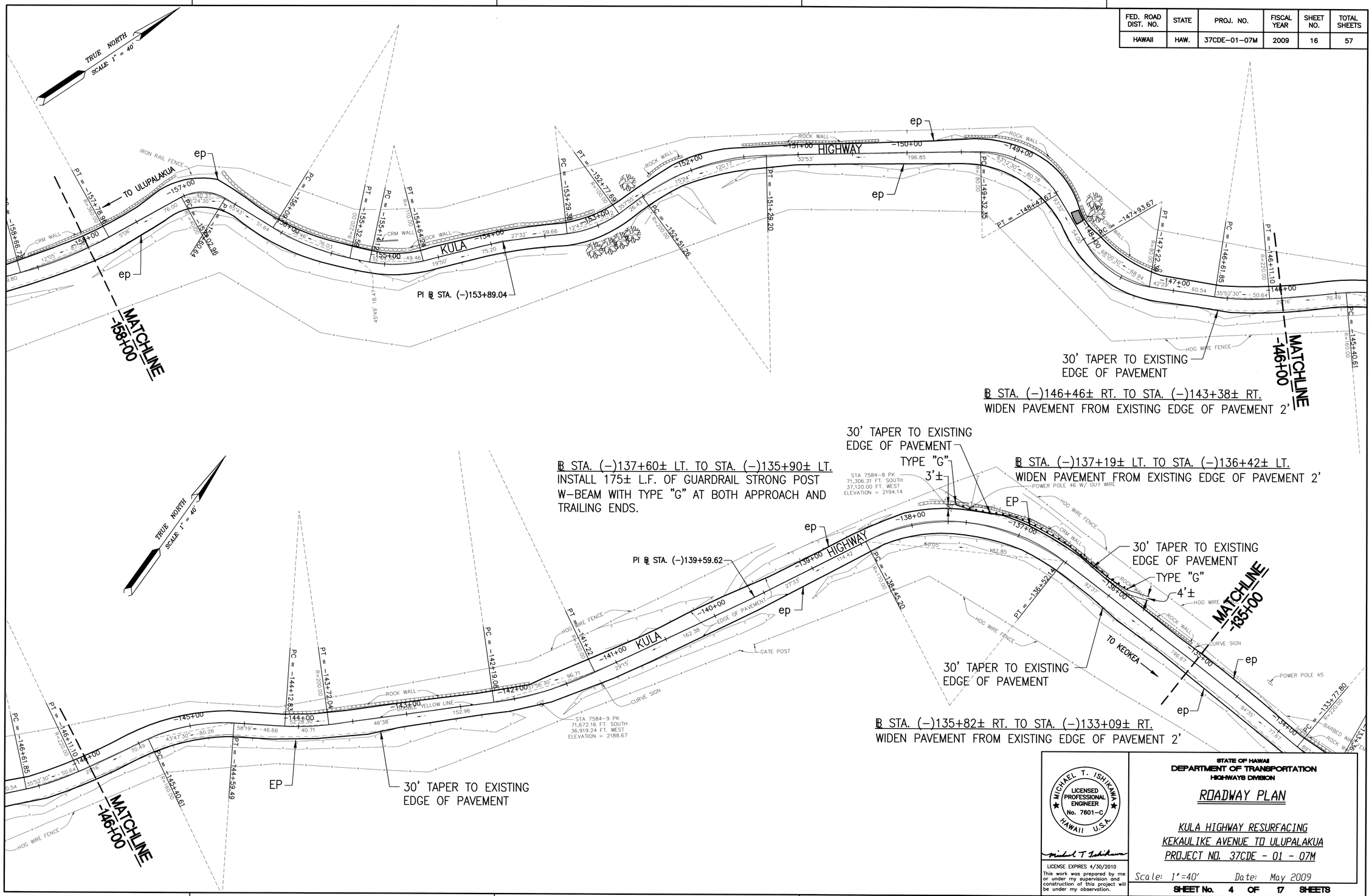
ROADWAY PLAN

KULA HIGHWAY RESURFACING
KEKAULIKE AVENUE TO ULUPALAKUA
PROJECT NO. 37CDE - 01 - 07M

Scale: 1"=40' Date: May 2009

SHEET No. 3 OF 17 SHEETS

FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	37CDE-01-07M	2009	16	57



ORIGINAL PLAN	SURVEY PLOTTED BY	DATE
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May 27, 2009 - 11:36am
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STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

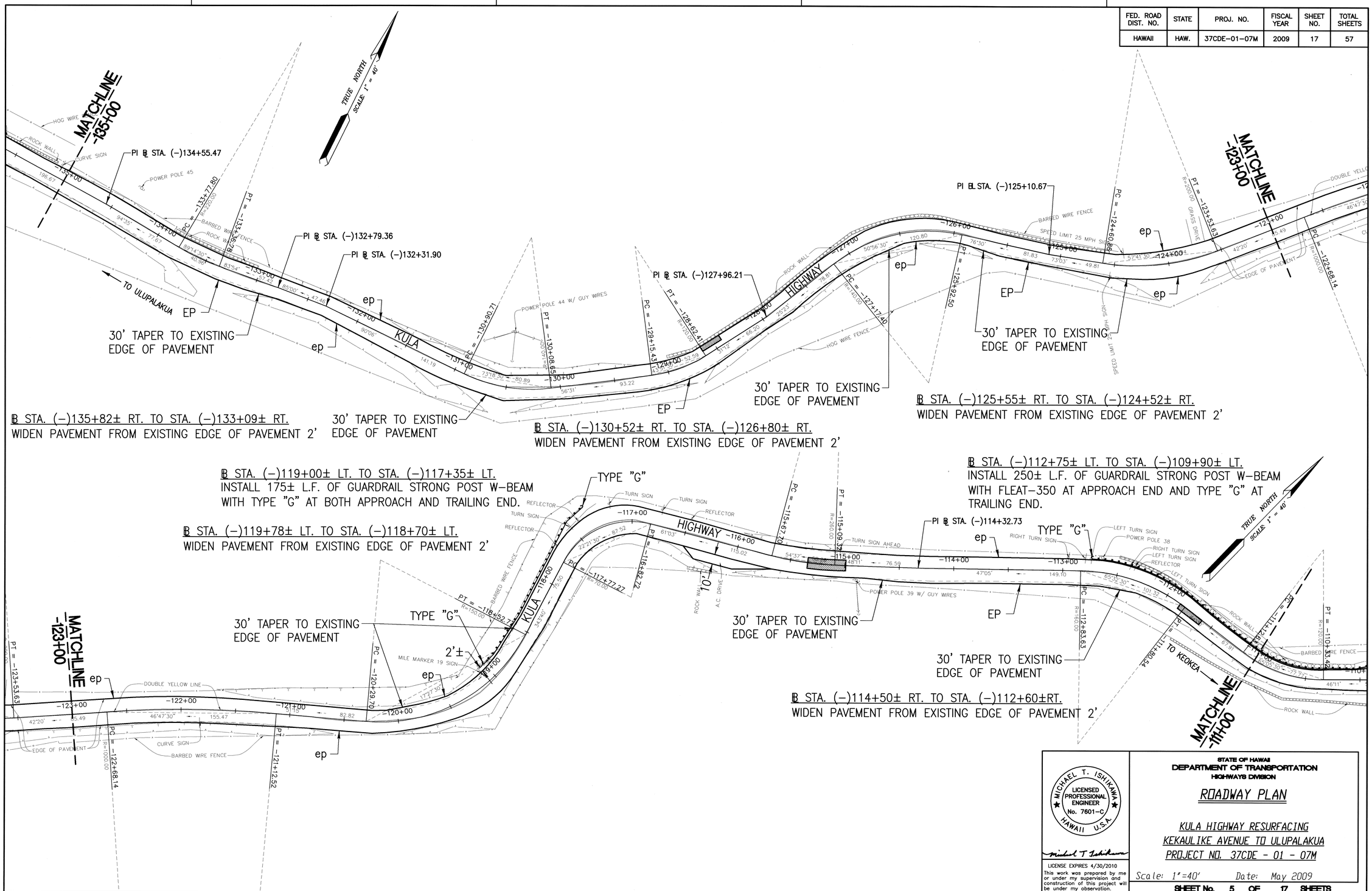
ROADWAY PLAN

KULA HIGHWAY RESURFACING
KEKAULIKE AVENUE TO ULUPALAKUA
PROJECT NO. 37CDE - 01 - 07M

Scale: 1"=40' Date: May 2009

SHEET No. 4 OF 17 SHEETS

FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	37CDE-01-07M	2009	17	57



SURVEY PLOTTED BY	DATE
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ORIGINAL PLAN — NOTE BOOK — No.

May 27, 2009 - 11:40am
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STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

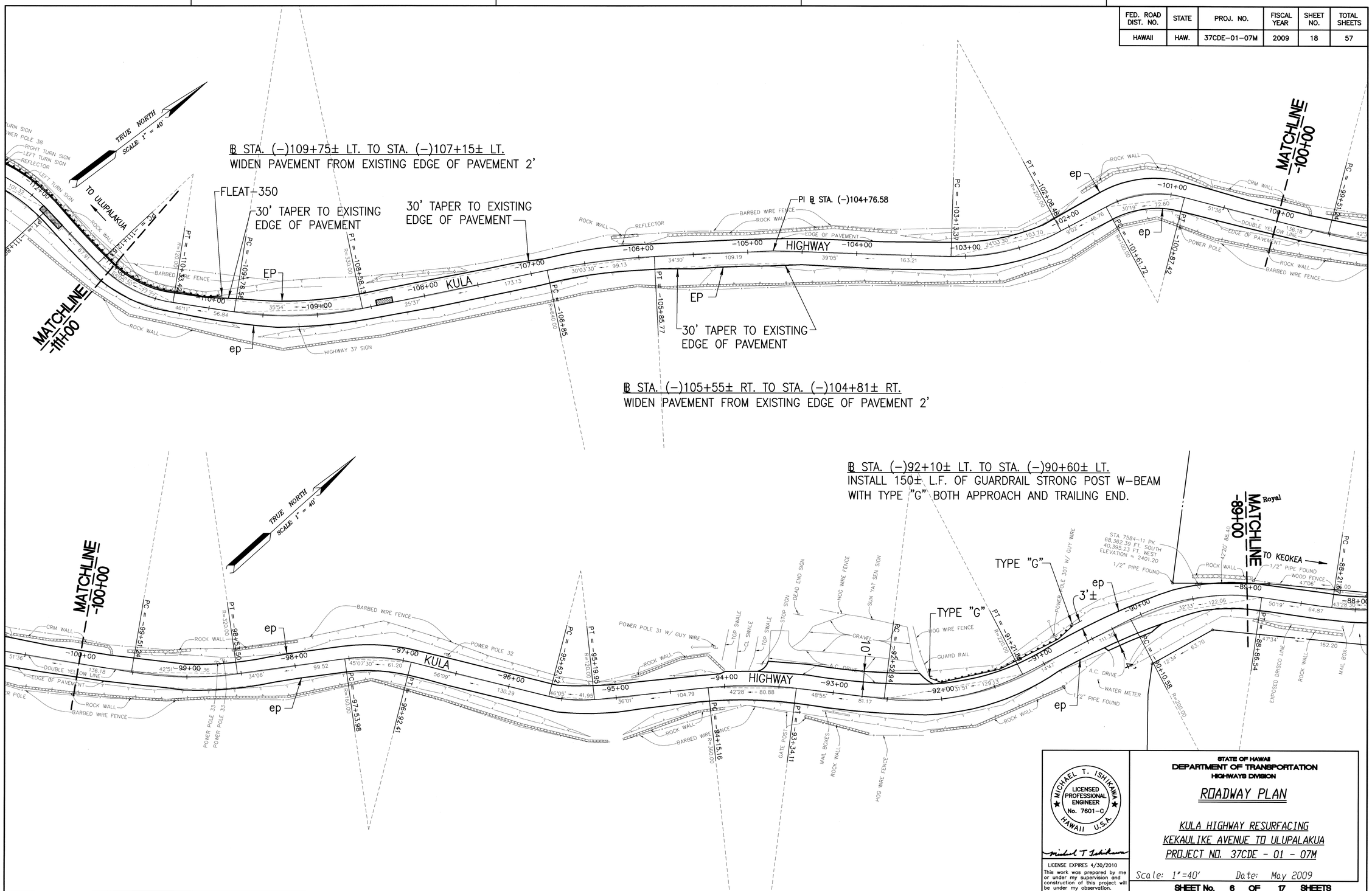
ROADWAY PLAN

KULA HIGHWAY RESURFACING
KEKAULIKE AVENUE TO ULUPALAKUA
PROJECT NO. 37CDE - 01 - 07M

Scale: 1"=40' Date: May 2009

SHEET No. 5 OF 17 SHEETS

FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	37CDE-01-07M	2009	18	57



ORIGINAL PLAN	SURVEY PLOTTED BY	DATE
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May 27, 2009 – 11:45am
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Michael T. Ishikawa

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STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

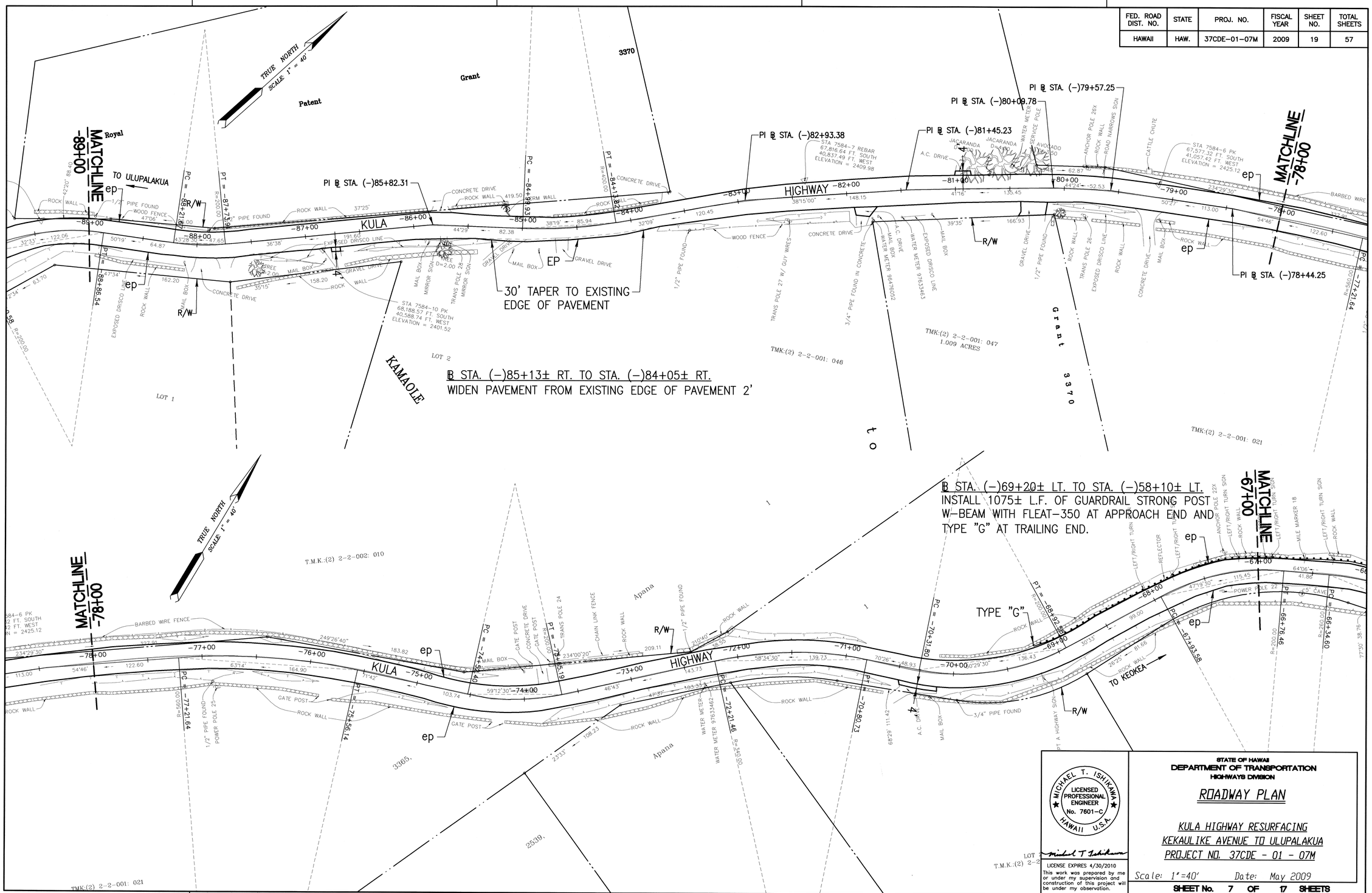
ROADWAY PLAN

KULA HIGHWAY RESURFACING
KEKAULIKE AVENUE TO ULUPALAKUA
PROJECT NO. 37CDE - 01 - 07M

Scale: 1"=40' Date: May 2009

SHEET No. 6 OF 17 SHEETS

FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	37CDE-01-07M	2009	19	57



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

May 27, 2009 - 11:49am
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STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

ROADWAY PLAN

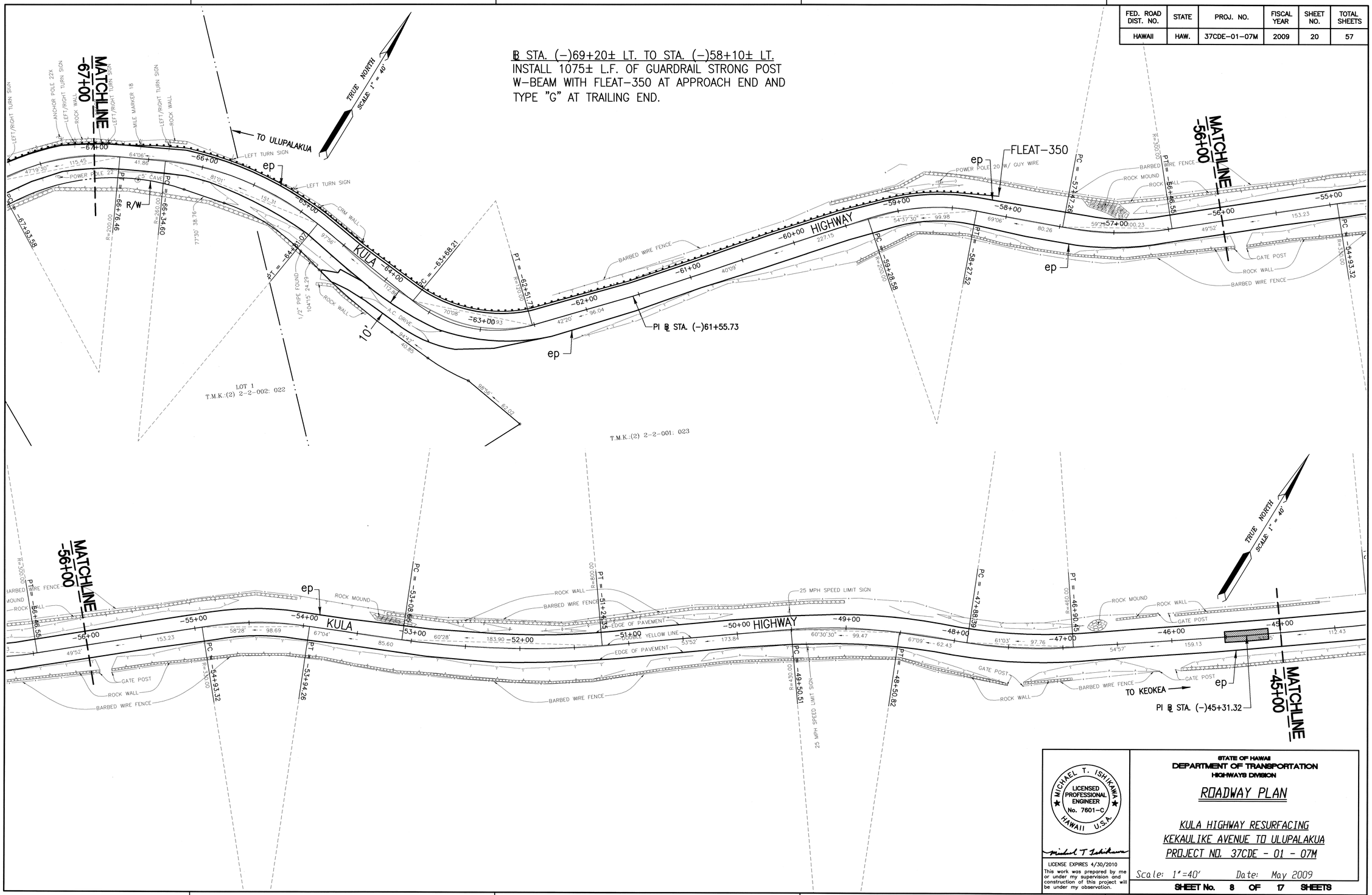
KULA HIGHWAY RESURFACING
KEKAULIKE AVENUE TO ULUPALAKUA
PROJECT NO. 37CDE - 01 - 07M

Scale: 1"=40' Date: May 2009

SHEET No. 7 OF 17 SHEETS

FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	37CDE-01-07M	2009	20	57

℄ STA. (−)69+20± LT. TO STA. (−)58+10± LT.
INSTALL 1075± L.F. OF GUARDRAIL STRONG POST W-BEAM WITH FLEAT-350 AT APPROACH END AND TYPE "G" AT TRAILING END.



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NOTE BOOK	DESIGNED BY
	QUANTITIES BY
No.	CHECKED BY
	DATE

May 27, 2009 – 11:53am
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No. 7601-C
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Michael T. Ishikawa

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STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

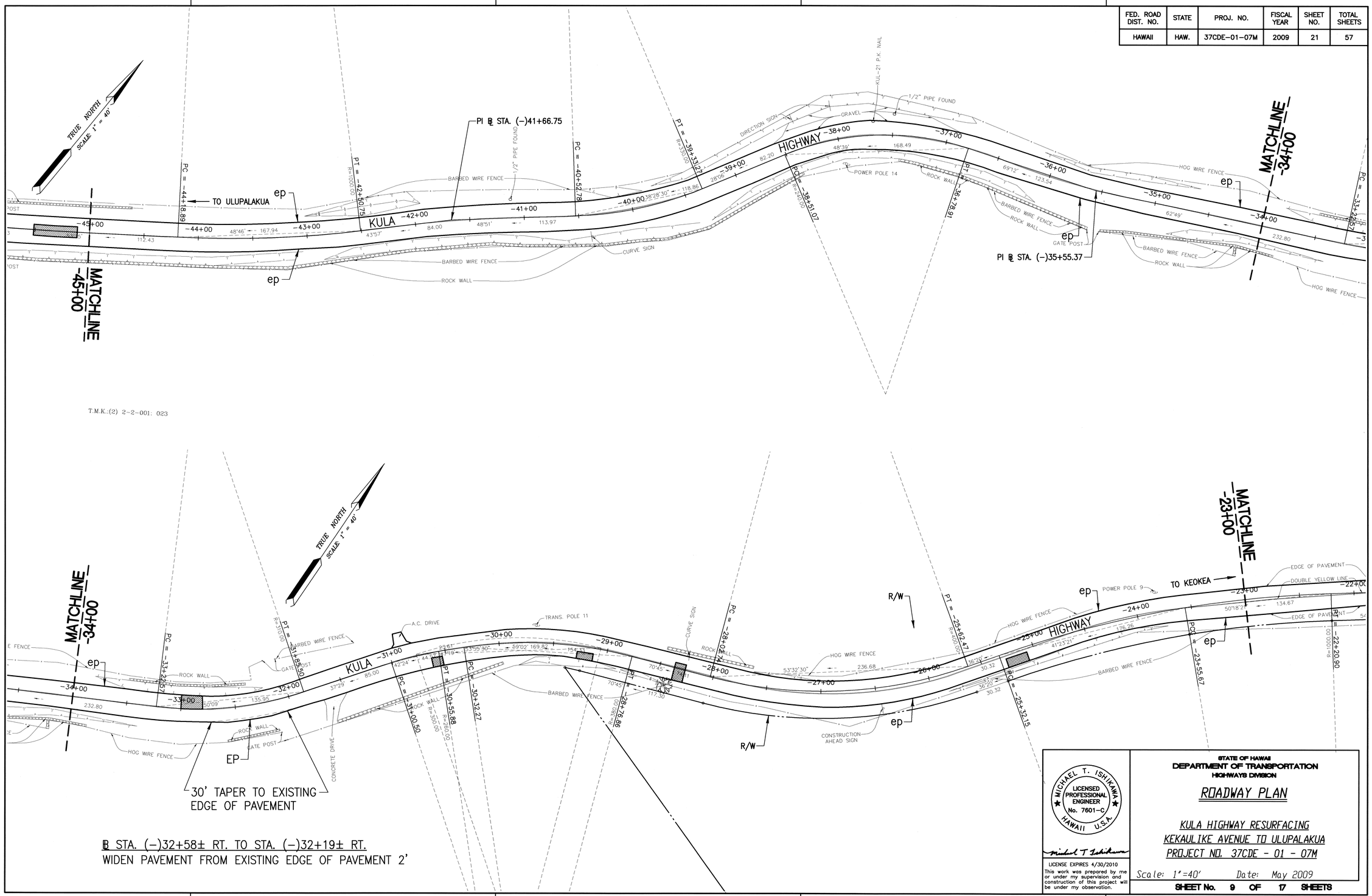
ROADWAY PLAN

KULA HIGHWAY RESURFACING
KEKAULIKE AVENUE TO ULUPALAKUA
PROJECT NO. 37CDE - 01 - 07M

Scale: 1"=40' Date: May 2009

SHEET No. 8 OF 17 SHEETS

FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	37CDE-01-07M	2009	21	57



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ORIGINAL PLAN

NOTE BOOK No. ____

May 27, 2009 – 1:24pm
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MICHAEL T. ISHIKAWA
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Michael T. Ishikawa

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STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

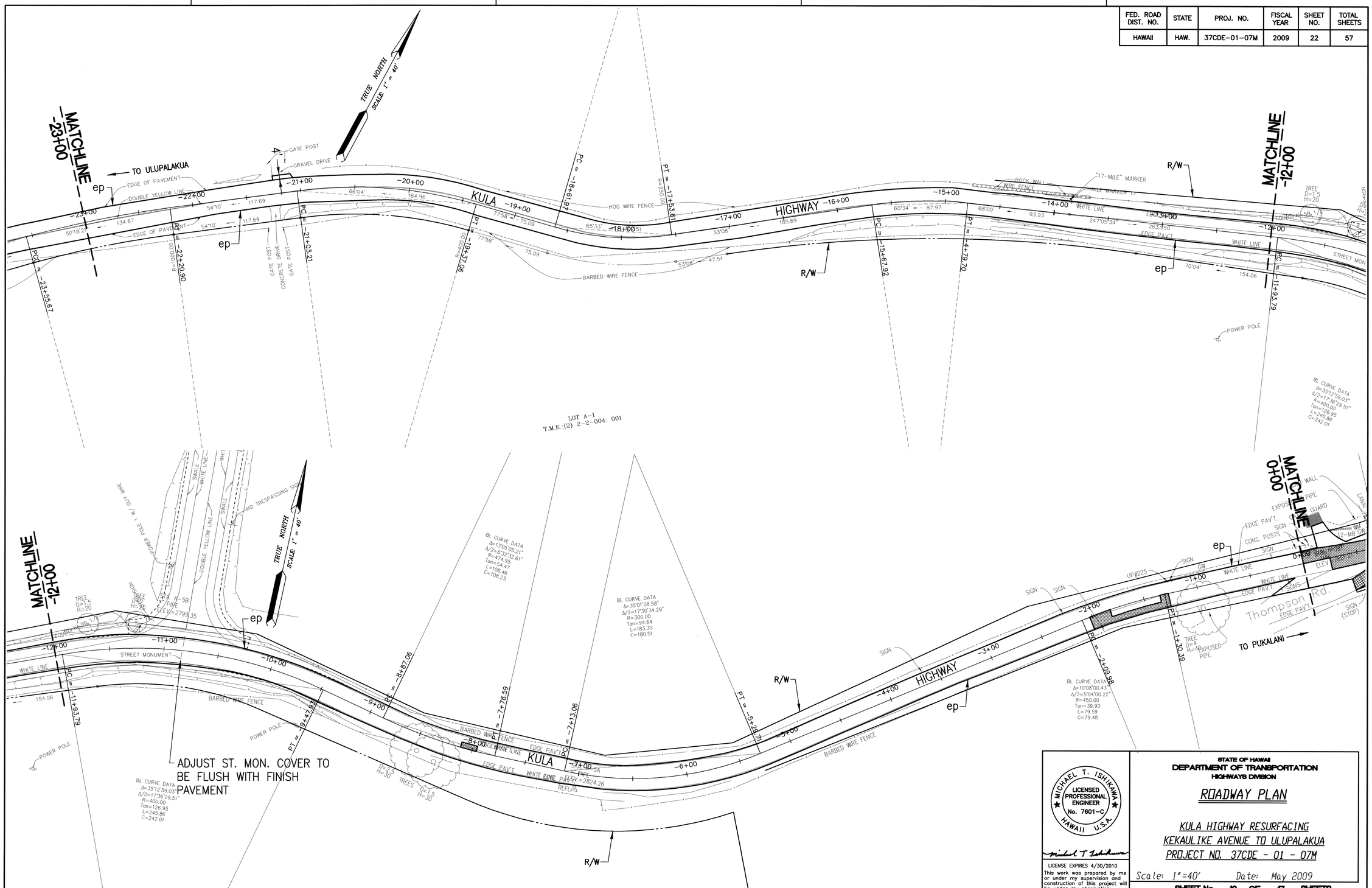
ROADWAY PLAN

KULA HIGHWAY RESURFACING
KEKAULIKE AVENUE TO ULUPALAKUA
PROJECT NO. 37CDE - 01 - 07M

Scale: 1"=40' Date: May 2009

SHEET No. 9 OF 17 SHEETS

FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	37CDE-01-07M	2009	22	57



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STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

MICHAEL T. ISHIKAWA
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No. 7601-C
HAWAII U.S.A.

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ROADWAY PLAN

KULA HIGHWAY RESURFACING
KEKAULIKE AVENUE TO ULUPALAKUA
PROJECT NO. 37CDE - 01 - 07M

Scale: 1"=40' Date: May 2009

SHEET No. 10 OF 17 SHEETS

May 27, 2009 - 1:44pm
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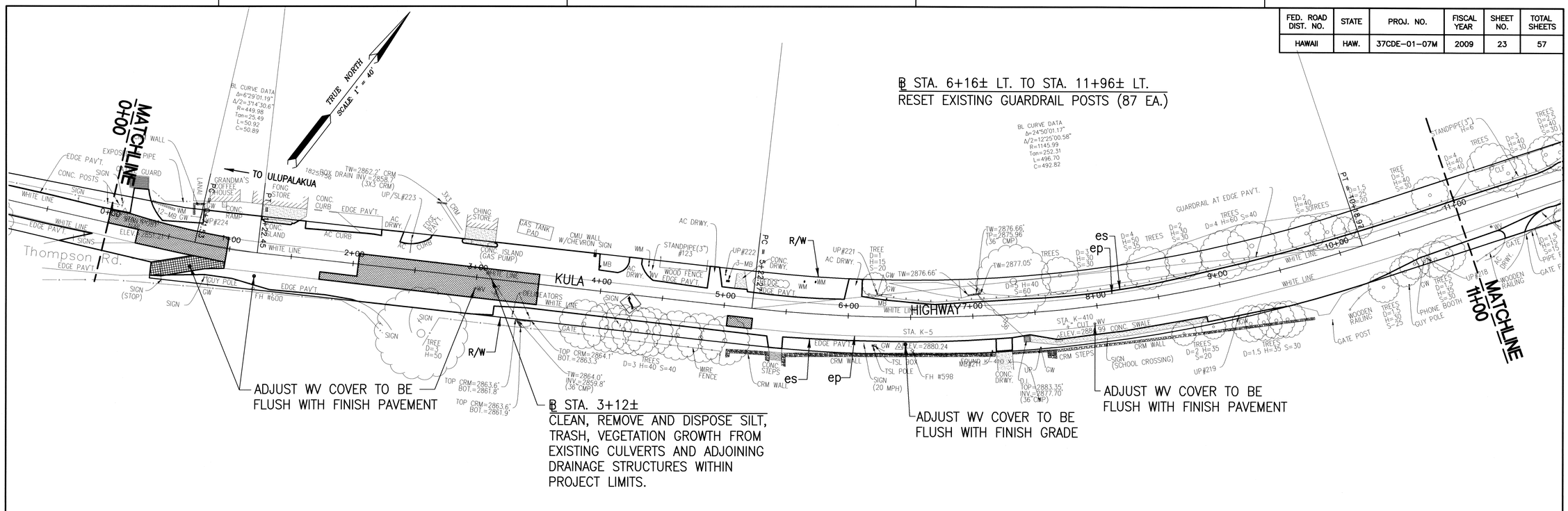
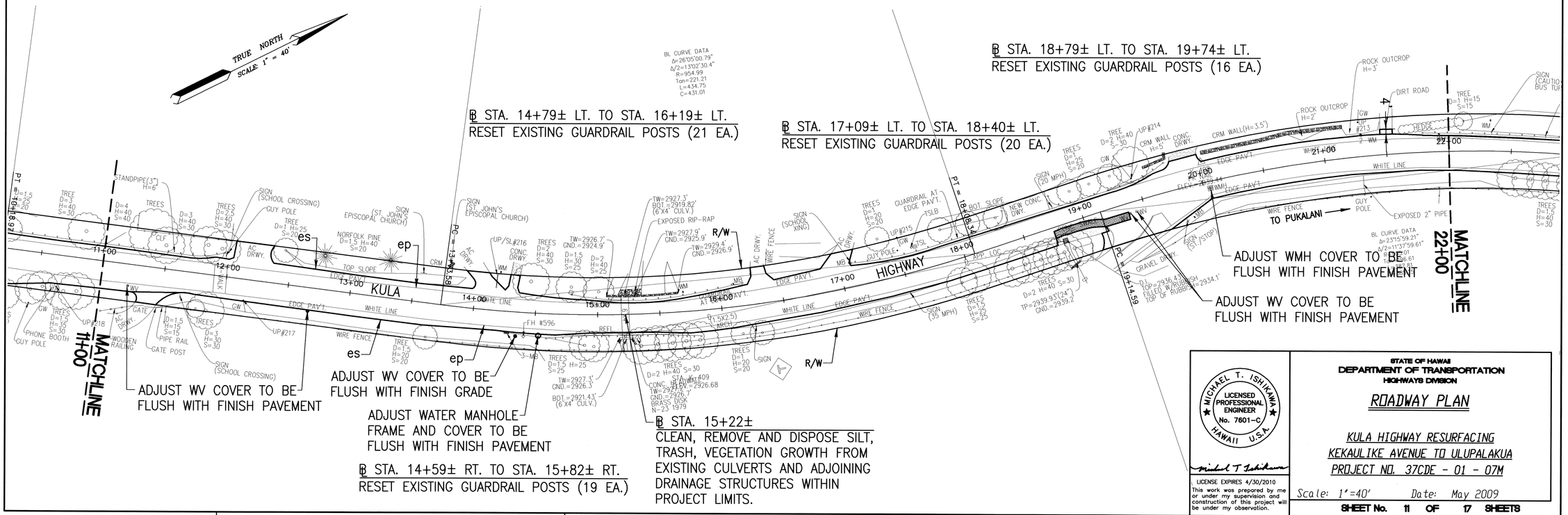
FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	37CDE-01-07M	2009	23	57





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NOTE BOOK	DESIGNED BY
	QUANTITIES BY
No.	CHECKED BY

May 27, 2009 - 1:33pm
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MICHAEL T. ISHIKAWA
LICENSED PROFESSIONAL ENGINEER
No. 7601-C
HAWAII U.S.A.

Michael T Ishikawa

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STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

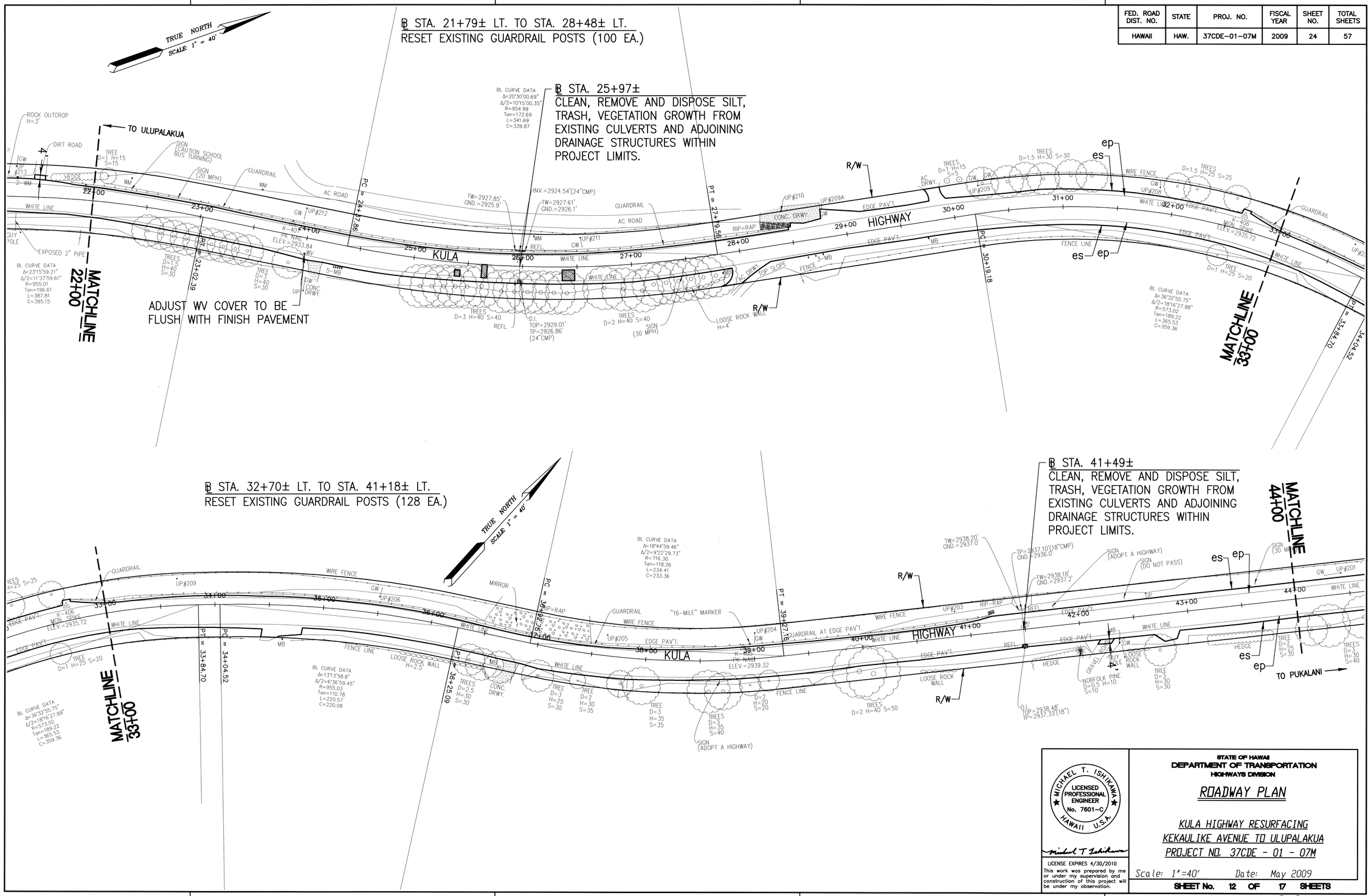
ROADWAY PLAN

KULA HIGHWAY RESURFACING
KEKAULIKE AVENUE TO ULUPALAKUA
PROJECT NO. 37CDE - 01 - 07M

Scale: 1"=40' Date: May 2009

SHEET No. 11 OF 17 SHEETS

FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	37CDE-01-07M	2009	24	57



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HIGHWAYS DIVISION

ROADWAY PLAN

KULA HIGHWAY RESURFACING
KEKAULIKE AVENUE TO ULUPALAKUA
PROJECT NO. 37CDE - 01 - 07M

Scale: 1"=40' Date: May 2009

SHEET No. 12 OF 17 SHEETS

May 27, 2009 – 1:48pm
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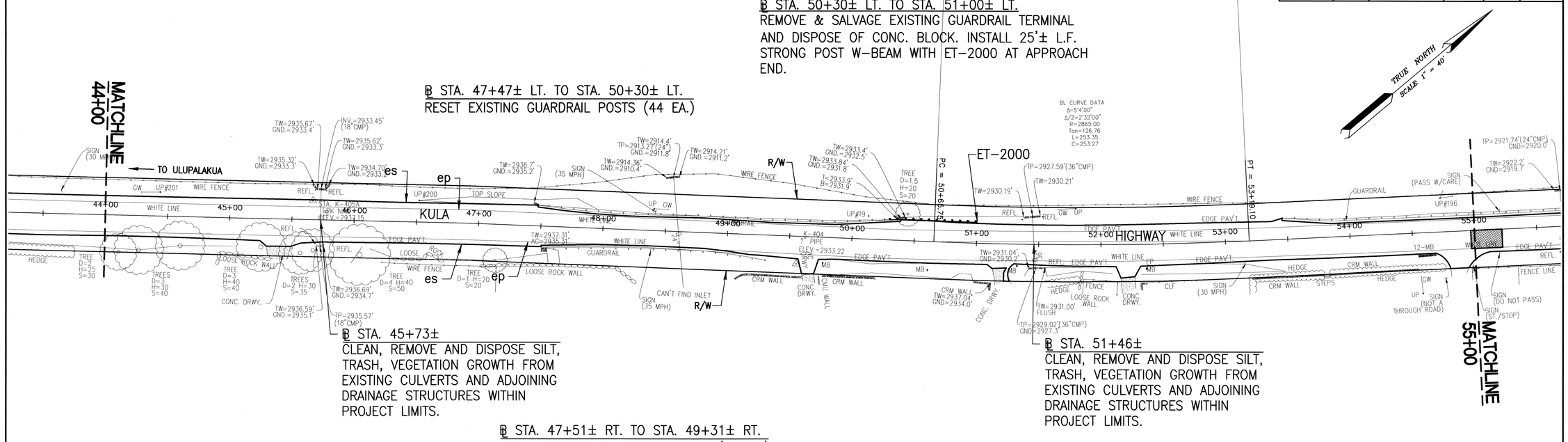
FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	37CDE-01-07M	2009	25	57

℄ STA. 50+30± LT. TO STA. 51+00± LT.
REMOVE & SALVAGE EXISTING GUARDRAIL TERMINAL AND DISPOSE OF CONC. BLOCK. INSTALL 25'± L.F. STRONG POST W-BEAM WITH ET-2000 AT APPROACH END.

℄ STA. 47+47± LT. TO STA. 50+30± LT.
RESET EXISTING GUARDRAIL POSTS (44 EA.)



℄ STA. 45+73±
CLEAN, REMOVE AND DISPOSE SILT, TRASH, VEGETATION GROWTH FROM EXISTING CULVERTS AND ADJOINING DRAINAGE STRUCTURES WITHIN PROJECT LIMITS.

℄ STA. 51+46±
CLEAN, REMOVE AND DISPOSE SILT, TRASH, VEGETATION GROWTH FROM EXISTING CULVERTS AND ADJOINING DRAINAGE STRUCTURES WITHIN PROJECT LIMITS.

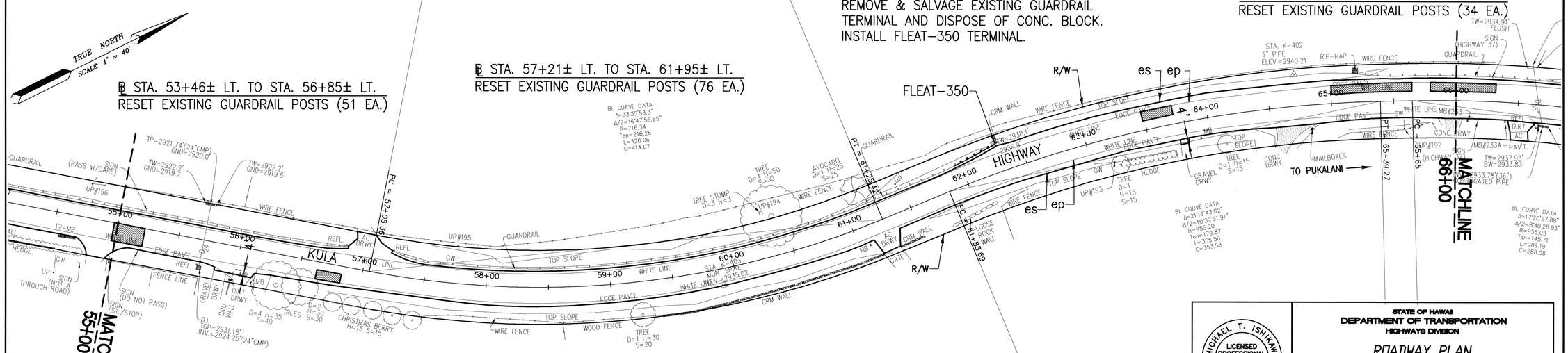
℄ STA. 47+51± RT. TO STA. 49+31± RT.
RESET EXISTING GUARDRAIL POSTS (27 EA.)

℄ STA. 61+95± LT.
REMOVE & SALVAGE EXISTING GUARDRAIL TERMINAL AND DISPOSE OF CONC. BLOCK. INSTALL FLEAT-350 TERMINAL.

℄ STA. 65+18± LT. TO STA. 67+41± LT.
RESET EXISTING GUARDRAIL POSTS (34 EA.)

℄ STA. 53+46± LT. TO STA. 56+85± LT.
RESET EXISTING GUARDRAIL POSTS (51 EA.)

℄ STA. 57+21± LT. TO STA. 61+95± LT.
RESET EXISTING GUARDRAIL POSTS (76 EA.)



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

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

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No. 7601-C
HAWAII U.S.A.

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ROADWAY PLAN

KULA HIGHWAY RESURFACING
KEKAULIKE AVENUE TO ULUPALAKUA
PROJECT NO. 37CDE - 01 - 07M

Scale: 1"=40' Date: May 2009

SHEET No. 13 OF 17 SHEETS

May 27, 2009 - 1:52pm
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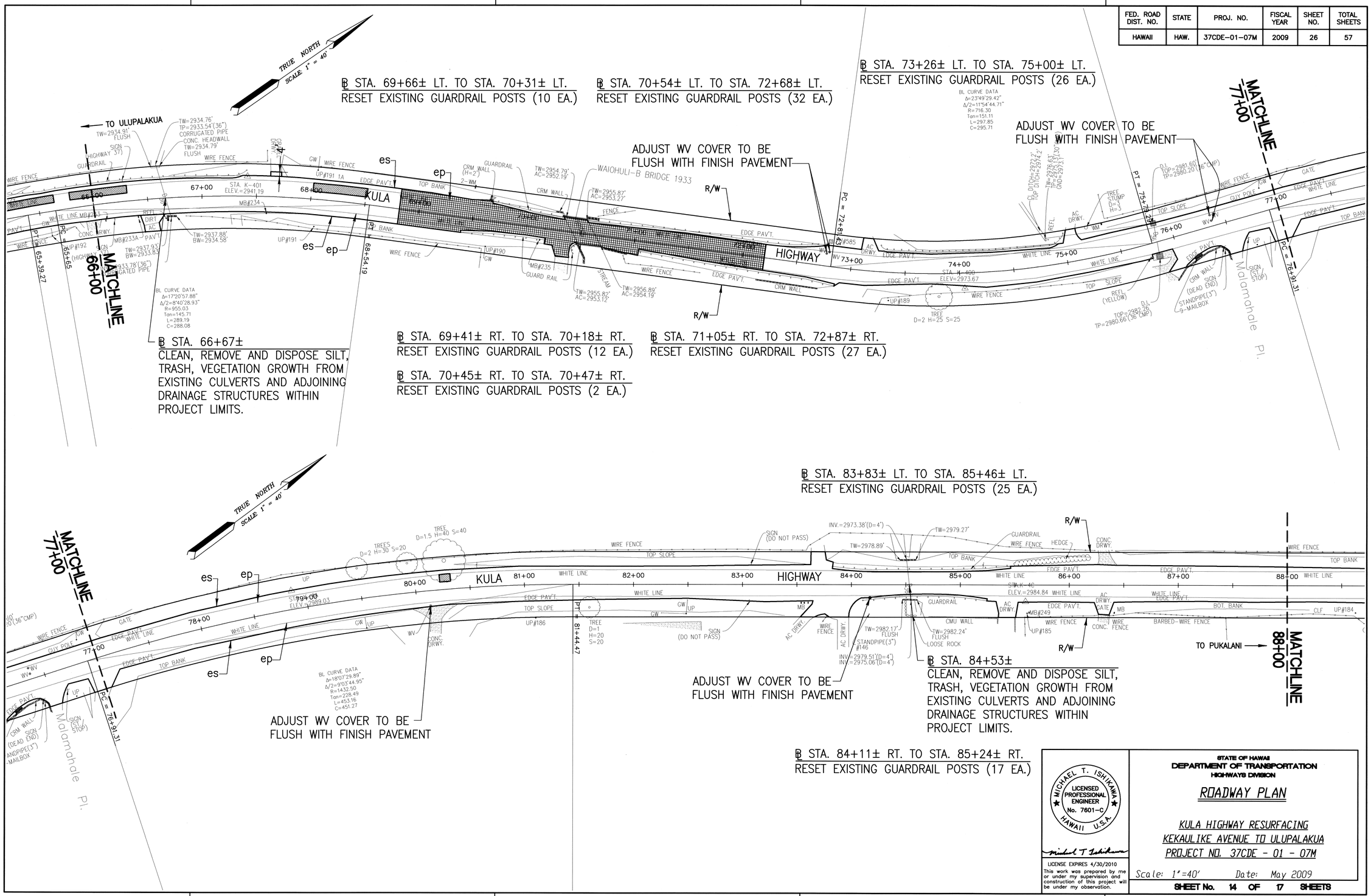
FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	37CDE-01-07M	2009	26	57



℄ STA. 69+66± LT. TO STA. 70+31± LT.
RESET EXISTING GUARDRAIL POSTS (10 EA.)

℄ STA. 70+54± LT. TO STA. 72+68± LT.
RESET EXISTING GUARDRAIL POSTS (32 EA.)

℄ STA. 73+26± LT. TO STA. 75+00± LT.
RESET EXISTING GUARDRAIL POSTS (26 EA.)

ADJUST WV COVER TO BE FLUSH WITH FINISH PAVEMENT

ADJUST WV COVER TO BE FLUSH WITH FINISH PAVEMENT

℄ STA. 66+67±
CLEAN, REMOVE AND DISPOSE SILT, TRASH, VEGETATION GROWTH FROM EXISTING CULVERTS AND ADJOINING DRAINAGE STRUCTURES WITHIN PROJECT LIMITS.

℄ STA. 69+41± RT. TO STA. 70+18± RT.
RESET EXISTING GUARDRAIL POSTS (12 EA.)

℄ STA. 70+45± RT. TO STA. 70+47± RT.
RESET EXISTING GUARDRAIL POSTS (2 EA.)

℄ STA. 71+05± RT. TO STA. 72+87± RT.
RESET EXISTING GUARDRAIL POSTS (27 EA.)

℄ STA. 83+83± LT. TO STA. 85+46± LT.
RESET EXISTING GUARDRAIL POSTS (25 EA.)

ADJUST WV COVER TO BE FLUSH WITH FINISH PAVEMENT

ADJUST WV COVER TO BE FLUSH WITH FINISH PAVEMENT

℄ STA. 84+53±
CLEAN, REMOVE AND DISPOSE SILT, TRASH, VEGETATION GROWTH FROM EXISTING CULVERTS AND ADJOINING DRAINAGE STRUCTURES WITHIN PROJECT LIMITS.

℄ STA. 84+11± RT. TO STA. 85+24± RT.
RESET EXISTING GUARDRAIL POSTS (17 EA.)

ORIGINAL PLAN	SURVEY PLOTTED BY	DATE
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No.	QUANTITIES BY	
	CHECKED BY	

MICHAEL T. ISHIKAWA
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No. 7601-C
HAWAII U.S.A.

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STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

ROADWAY PLAN

KULA HIGHWAY RESURFACING
KEKAULIKE AVENUE TO ULUPALAKUA
PROJECT NO. 37CDE - 01 - 07M

Scale: 1"=40' Date: May 2009

SHEET No. 14 OF 17 SHEETS

May 27, 2009 - 1:57pm
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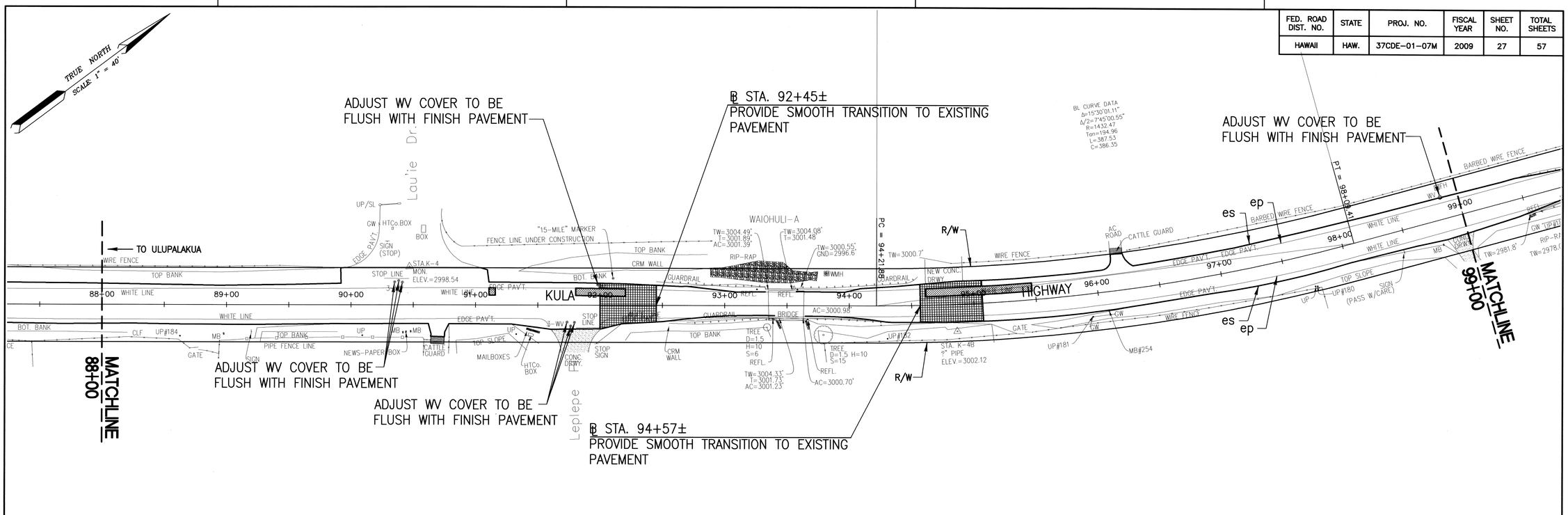
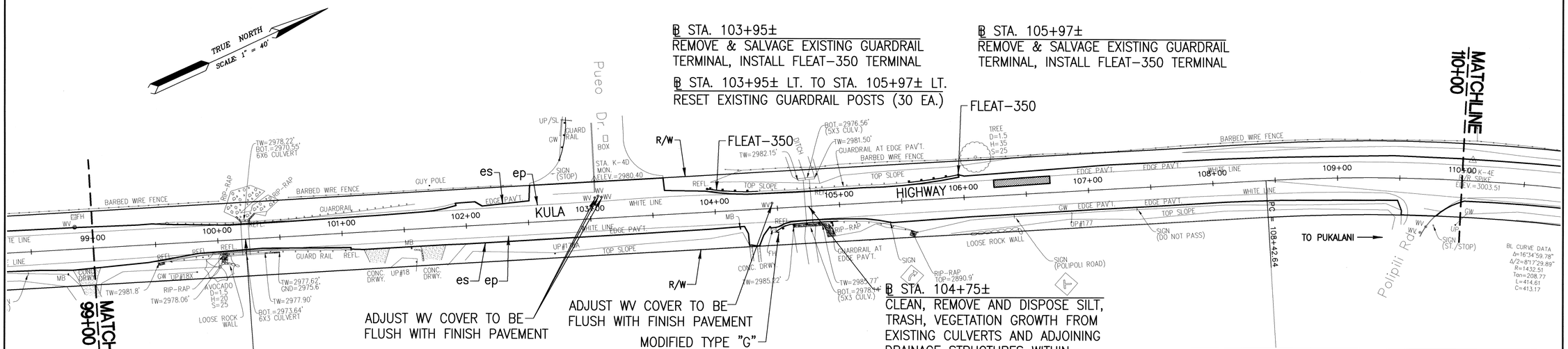
FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	37CDE-01-07M	2009	27	57





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

May 27, 2009 - 2:01pm
M:\Projects\M0708.00\Oahu_RoadwayPlan\ROAD_PLAN.dwg

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

MICHAEL T. ISHIKAWA
LICENSED PROFESSIONAL ENGINEER
No. 7601-C
HAWAII U.S.A.

LICENSE EXPIRES 4/30/2010

This work was prepared by me or under my supervision and construction of this project will be under my observation.

ROADWAY PLAN

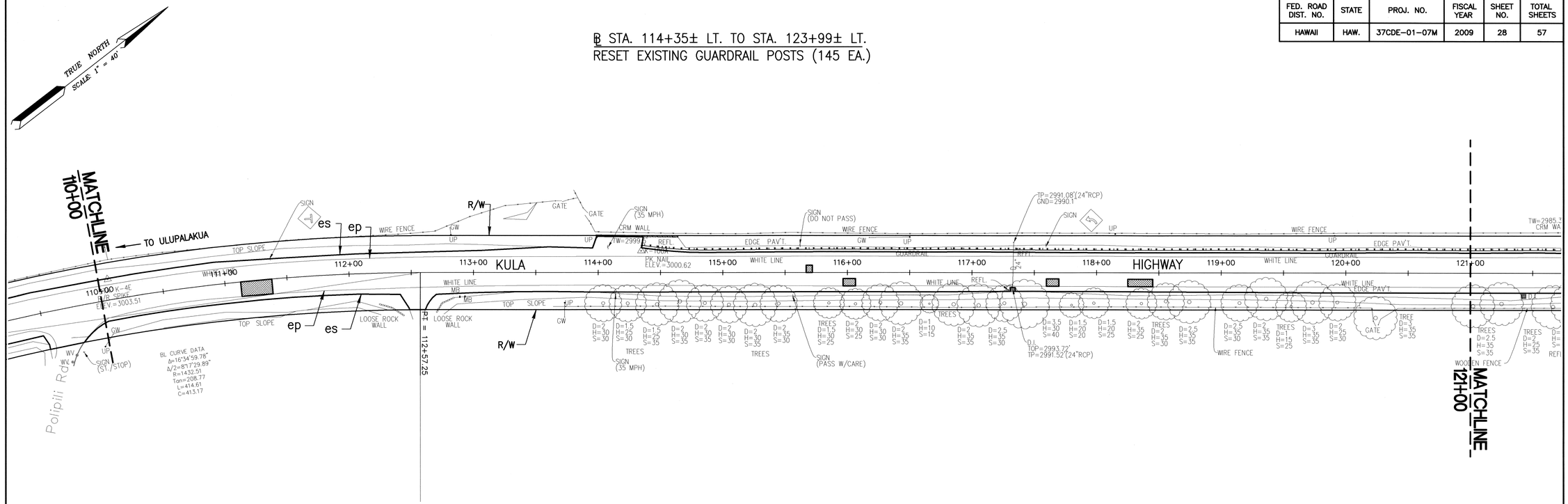
KULA HIGHWAY RESURFACING
KEKAULIKE AVENUE TO ULUPALAKUA
PROJECT NO. 37CDE - 01 - 07M

Scale: 1"=40' Date: May 2009

SHEET No. 15 OF 17 SHEETS

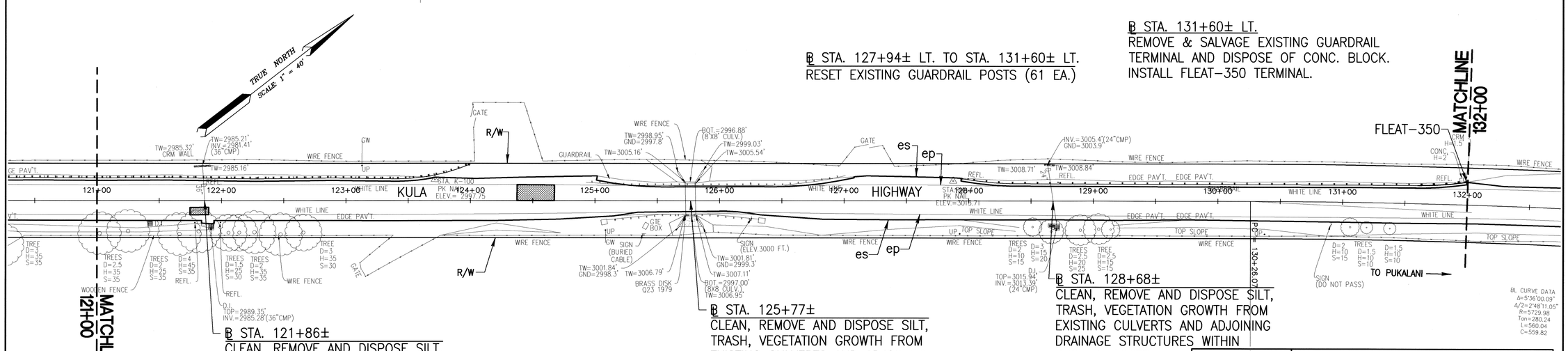
FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	37CDE-01-07M	2009	28	57

B STA. 114+35± LT. TO STA. 123+99± LT.
RESET EXISTING GUARDRAIL POSTS (145 EA.)



B STA. 127+94± LT. TO STA. 131+60± LT.
RESET EXISTING GUARDRAIL POSTS (61 EA.)

B STA. 131+60± LT.
REMOVE & SALVAGE EXISTING GUARDRAIL TERMINAL AND DISPOSE OF CONC. BLOCK.
INSTALL FLEAT-350 TERMINAL.



B STA. 121+86±
CLEAN, REMOVE AND DISPOSE SILT, TRASH, VEGETATION GROWTH FROM EXISTING CULVERTS AND ADJOINING DRAINAGE STRUCTURES WITHIN PROJECT LIMITS.

B STA. 125+77±
CLEAN, REMOVE AND DISPOSE SILT, TRASH, VEGETATION GROWTH FROM EXISTING CULVERTS AND ADJOINING DRAINAGE STRUCTURES WITHIN PROJECT LIMITS.

B STA. 128+68±
CLEAN, REMOVE AND DISPOSE SILT, TRASH, VEGETATION GROWTH FROM EXISTING CULVERTS AND ADJOINING DRAINAGE STRUCTURES WITHIN PROJECT LIMITS.

BL CURVE DATA
Δ=5°36'00.09"
Δ/2=2°48'11.05"
R=5729.98
Tan=280.24
L=560.04
C=559.82

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

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STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

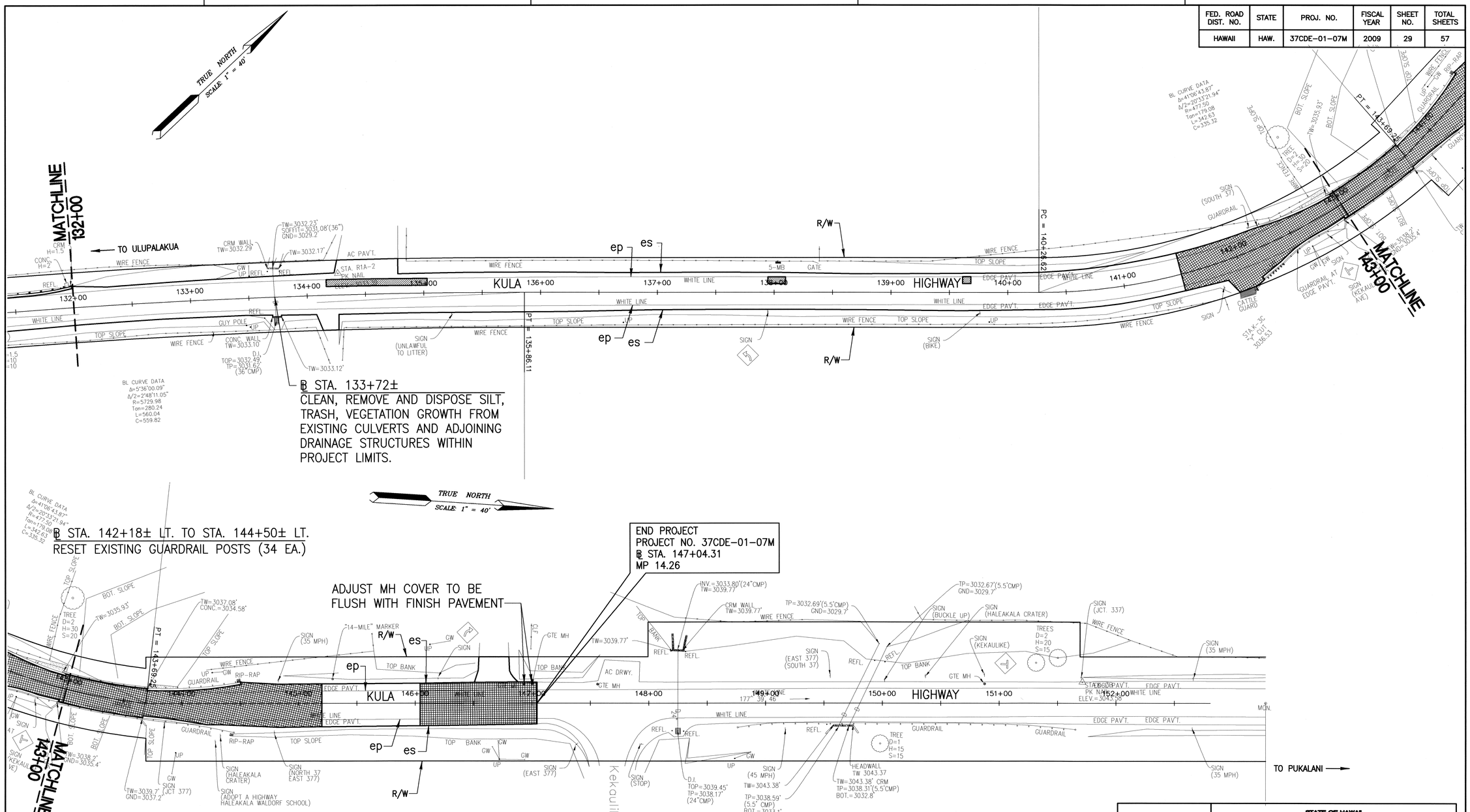
ROADWAY PLAN

KULA HIGHWAY RESURFACING
KEKAULIKE AVENUE TO ULUPALAKUA
PROJECT NO. 37CDE - 01 - 07M

Scale: 1"=40' Date: May 2009

SHEET No. 16 OF 17 SHEETS

FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	37CDE-01-07M	2009	29	57



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

DATE

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STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

ROADWAY PLAN

KULA HIGHWAY RESURFACING
KEKAULIKE AVENUE TO ULUPALAKUA
PROJECT NO. 37CDE - 01 - 07M

Scale: 1"=40' Date: May 2009

SHEET No. 17 OF 17 SHEETS