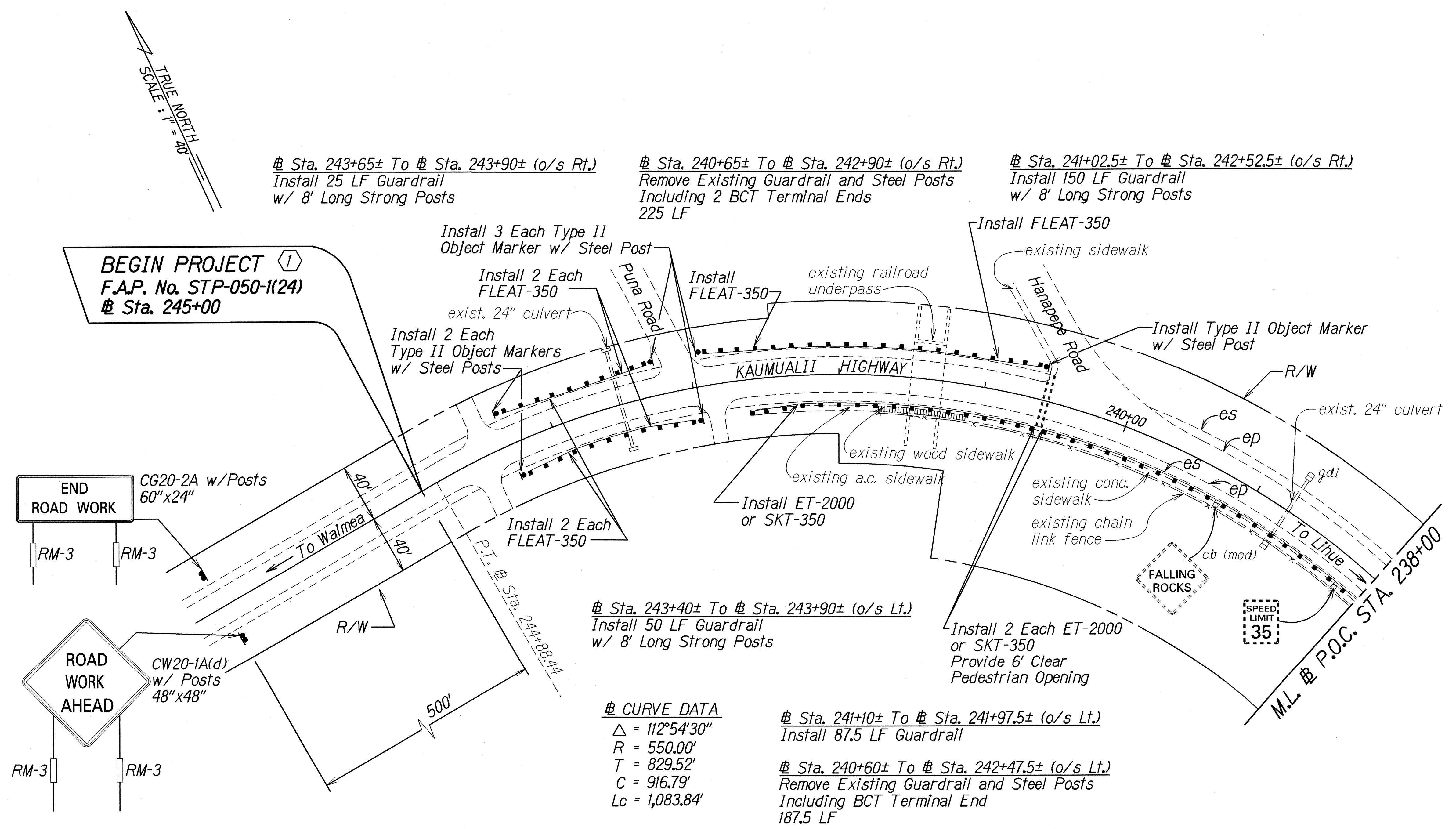


FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	STP-050-1(24)	2002	7	40

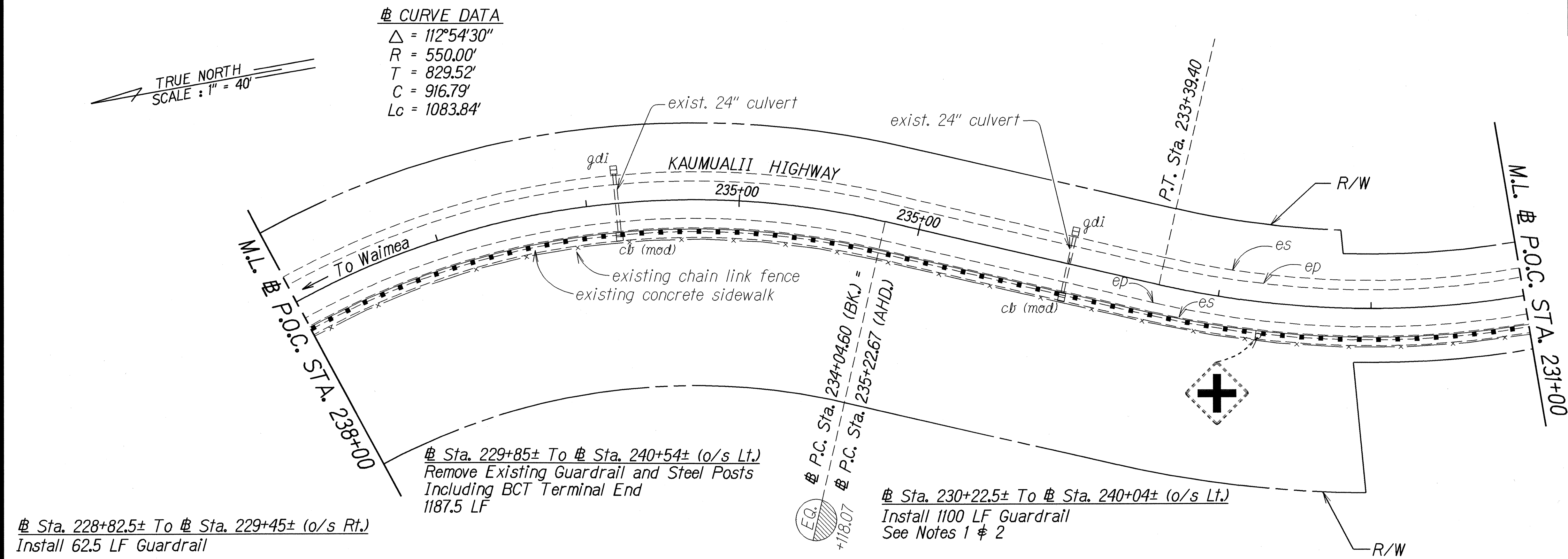


SURVEY PLOTTED BY	DATE
DESIGNED BY	
NOTED BY	
QUANTITIES BY	
CHECKED BY	

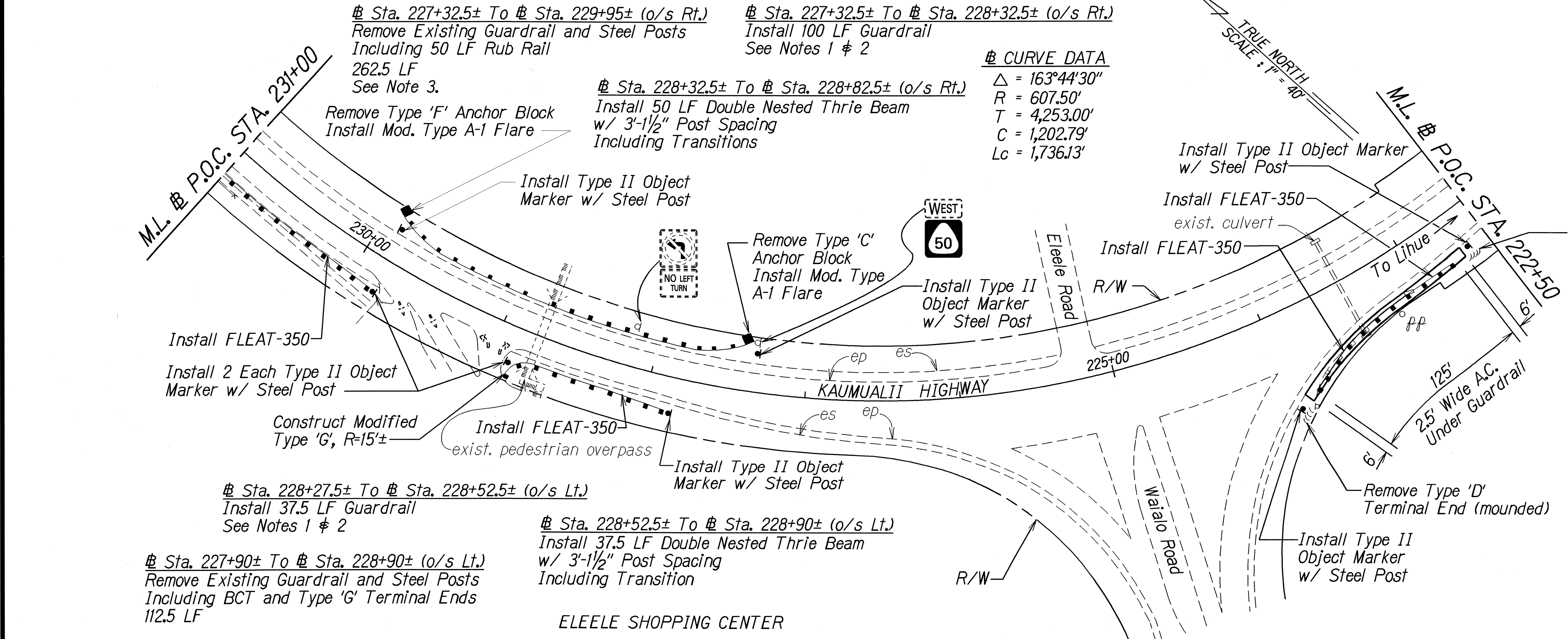
STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

ROADWAY PLAN
KAUMUALII HIGHWAY
Guardrail and Shoulder Improvements
Omao To Hanalepe
Fed. Aid Project No. STP-050-1(24)
Scale: 1" = 40' Date: July 2001
SHEET No. 1 OF 13 SHEETS

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	STP-050-1(24)	2002	8	40



- Notes:
1. Install new guardrail in the same approximate location as original guardrail.
 2. No new A.C. paving under guardrail.
 3. Removal of rub rail shall be considered incidental to removal of guardrail.



- ⊕ Sta. 222+75± To ⊕ Sta. 223+75± (o/s Lt.)
Remove Existing Guardrail and Steel Posts
100 LF
- ⊕ Sta. 223+12.5± To ⊕ Sta. 223+62.5± (o/s Lt.)
Install 50 LF Guardrail

SURVEY PLOTTED BY	DATE	Feb. 2003
DESIGNED BY		
QUANTITIES BY		
CHECKED BY		
NOTES		
REVISIONS		

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

ROADWAY PLAN
KAUMUALII HIGHWAY
Guardrail and Shoulder Improvements
Omao To Hanalei
Fed. Aid Project No. STP-050-1(24)
Scale: 1" = 40'
Date: July 2001

SHEET No. 2 OF 13 SHEETS

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	STP-050-(24)	2002	9	40

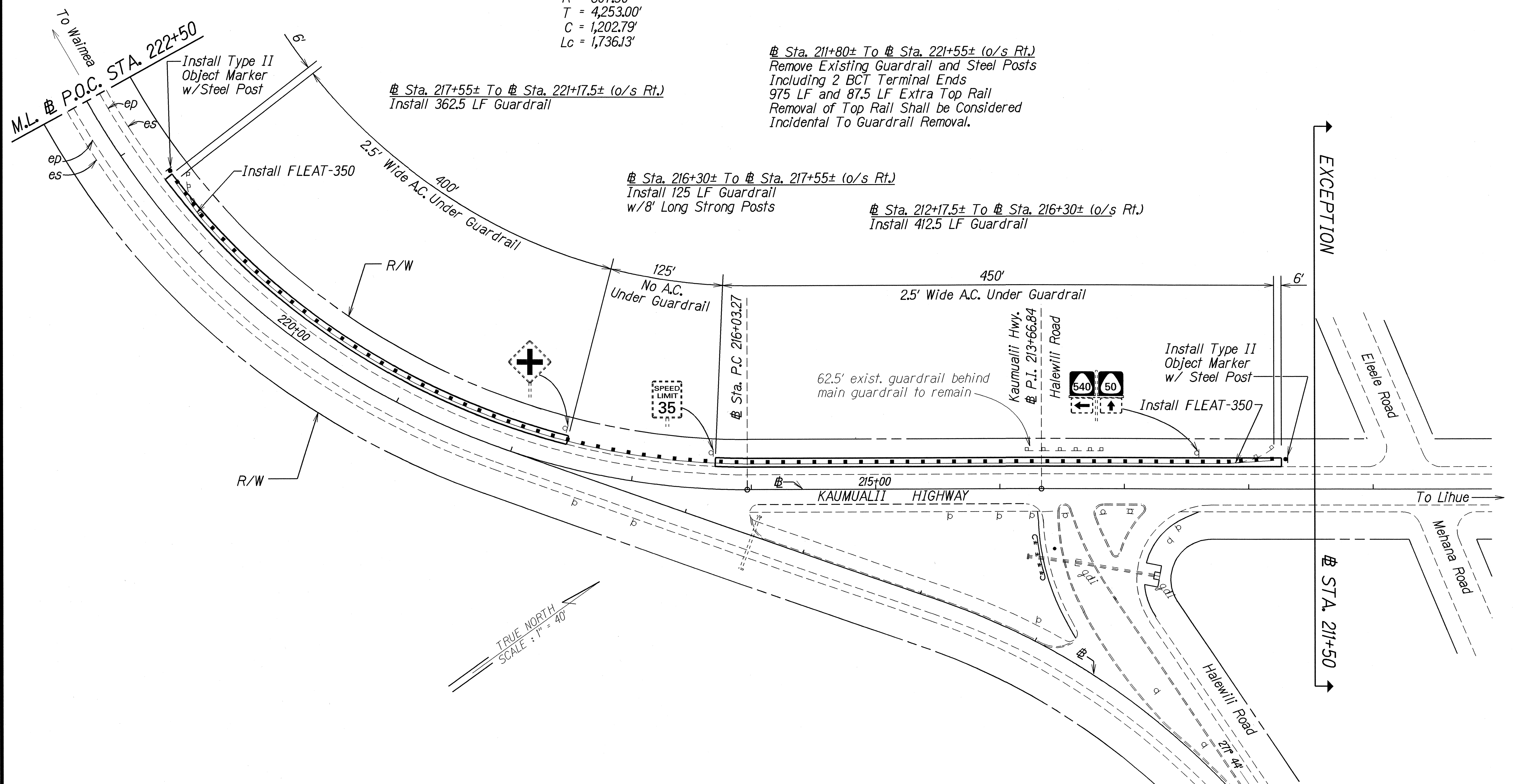
☯ CURVE DATA
 $\Delta = 163^{\circ}44'30''$
 $R = 607.50'$
 $T = 4,253.00'$
 $C = 1,202.79'$
 $L_c = 1,736.13'$

☯ Sta. 211+80± To ☯ Sta. 221+55± (o/s Rt.)
 Remove Existing Guardrail and Steel Posts
 Including 2 BCT Terminal Ends
 975 LF and 87.5 LF Extra Top Rail
 Removal of Top Rail Shall be Considered
 Incidental To Guardrail Removal.

☯ Sta. 217+55± To ☯ Sta. 221+17.5± (o/s Rt.)
 Install 362.5 LF Guardrail

☯ Sta. 216+30± To ☯ Sta. 217+55± (o/s Rt.)
 Install 125 LF Guardrail
 w/ 8' Long Strong Posts

☯ Sta. 212+17.5± To ☯ Sta. 216+30± (o/s Rt.)
 Install 412.5 LF Guardrail



ORIGINAL PLAN	DATE
SURVEY PLOTTED BY	
DESIGNED BY	
QUANTITIES BY	
CHECKED BY	

STATE OF HAWAII
 DEPARTMENT OF TRANSPORTATION
 HIGHWAYS DIVISION

ROADWAY PLAN
 KAUMUALII HIGHWAY
 Guardrail and Shoulder Improvements
 O'ahu to Hanalei
 Fed. Aid Project No. STP-050-1(24)

Scale: 1"=40'
 Date: July 2001

SHEET No. 3 OF 13 SHEETS

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	STP-050-1(24)	2002	10	40

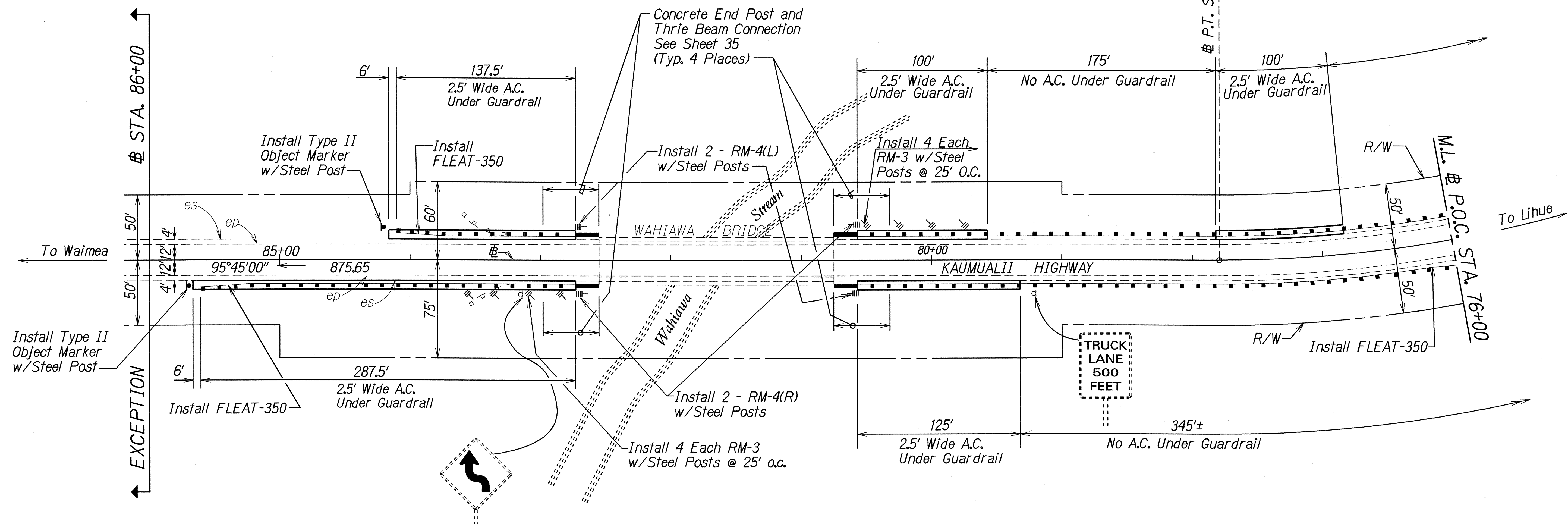
Sta. 82+55± To # Sta. 83+55± (o/s Rt.)
Remove Existing Guardrail and Steel Posts
Including BCT Terminal End
100 LF

Sta. 82+92.5± To # Sta. 83+67.5± (o/s Rt.)
Install 75 LF Guardrail

Sta. 79+57± To # Sta. 80+32± (o/s Rt.)
Install 75 LF Guardrail

Sta. 77+82± To # Sta. 79+57± (o/s Rt.)
Install 175 LF Guardrail
w/8' Long Strong Posts

Sta. 76+82± To # Sta. 77+82± (o/s Rt.)
Install 100 LF Guardrail



Sta. 82+92.5± To # Sta. 85+17.5± (o/s Lt.)
Install 225 LF Guardrail

Sta. 82+55± To # Sta. 83+55± (o/s Lt.)
Remove Existing Guardrail and Steel Posts
Including BCT Terminal End
100 LF

Sta. 76+19.5± To # Sta. 79+32± (o/s Lt.)
Install 312.5 LF Guardrail
w/8' Long Strong Posts

Sta. 79+32± To # Sta. 80+32± (o/s Lt.)
Install 100 LF Guardrail

Sta. 75+75± To # Sta. 80+75± (o/s Lt.)
Remove Existing Guardrail and Steel Posts
Including BCT Terminal End
500 LF

ORIGINAL PLAN	DATE
DESIGNED BY	
TRACED BY	
DESIGNED BY	
QUANTITIES BY	
CHECKED BY	
DATE	

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

ROADWAY PLAN

KAUMUALII HIGHWAY

Guardrail and Shoulder Improvements

Omao to Hanapepe

Fed. Aid Project No. STP-050-1(24)

Scale: 1" = 40"
Date: July 2001
SHEET No. 4 OF 13 SHEETS

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	STP-050-1(24)	2002	11	40

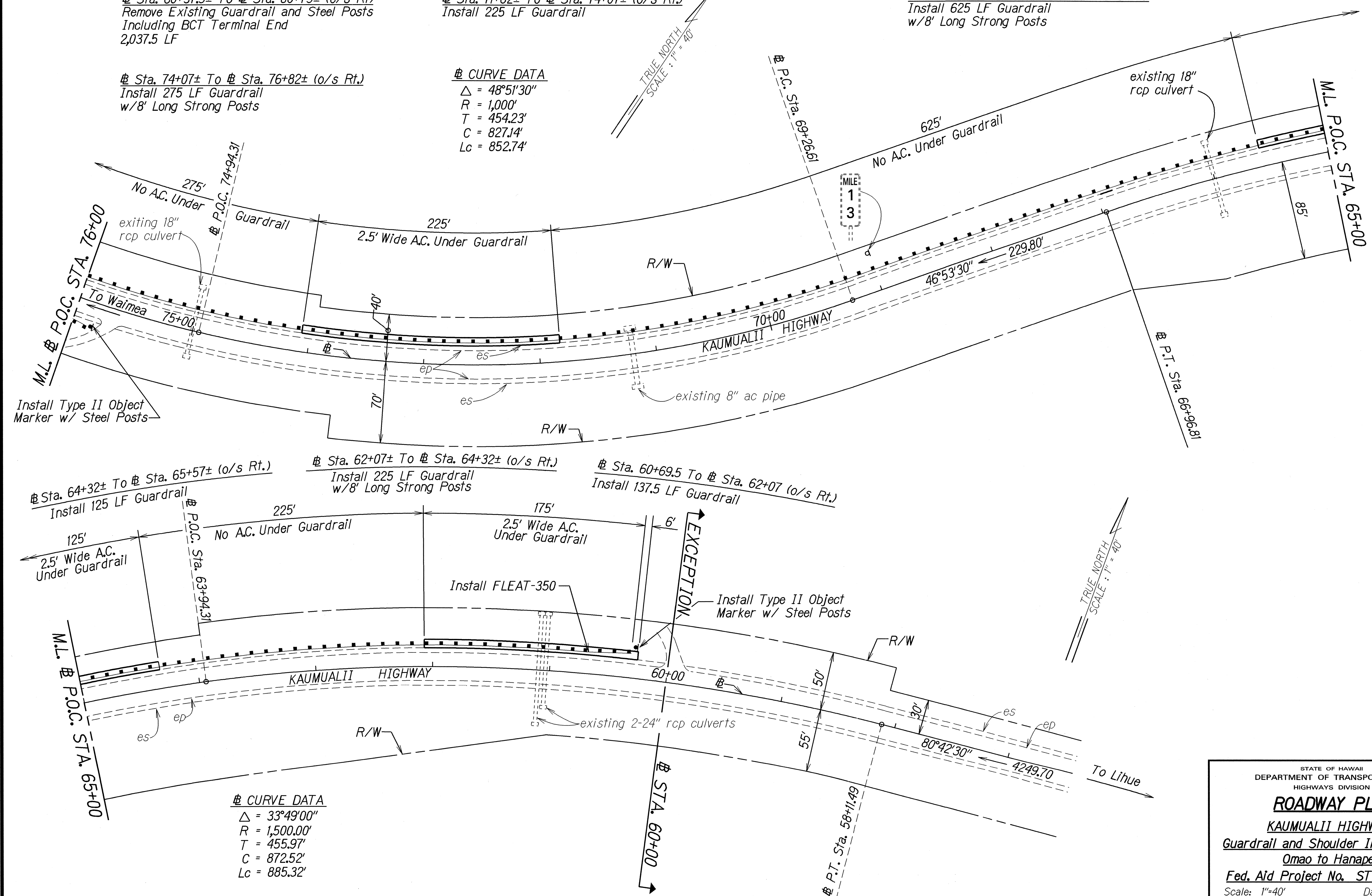
Sta. 60+37.5± To # Sta. 80+75± (o/s Rt.)
Remove Existing Guardrail and Steel Posts
Including BCT Terminal End
2,037.5 LF

Sta. 71+82± To # Sta. 74+07± (o/s Rt.)
Install 225 LF Guardrail

Sta. 65+57± To # Sta. 71+82± (o/s Rt.)
Install 625 LF Guardrail
w/8' Long Strong Posts

Sta. 74+07± To # Sta. 76+82± (o/s Rt.)
Install 275 LF Guardrail
w/8' Long Strong Posts

CURVE DATA
 $\Delta = 48^\circ 51' 30''$
 $R = 1,000'$
 $T = 454.23'$
 $C = 827.14'$
 $Lc = 852.74'$



DATE	X
SURVEY PLOTTED BY	
DESIGNED BY	J. J. J.
QUANTITIES BY	
CHECKED BY	
ORIGINAL PLAN	
NOTES	
1/1	

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

ROADWAY PLAN

KAUMUALII HIGHWAY

Guardrail and Shoulder Improvements

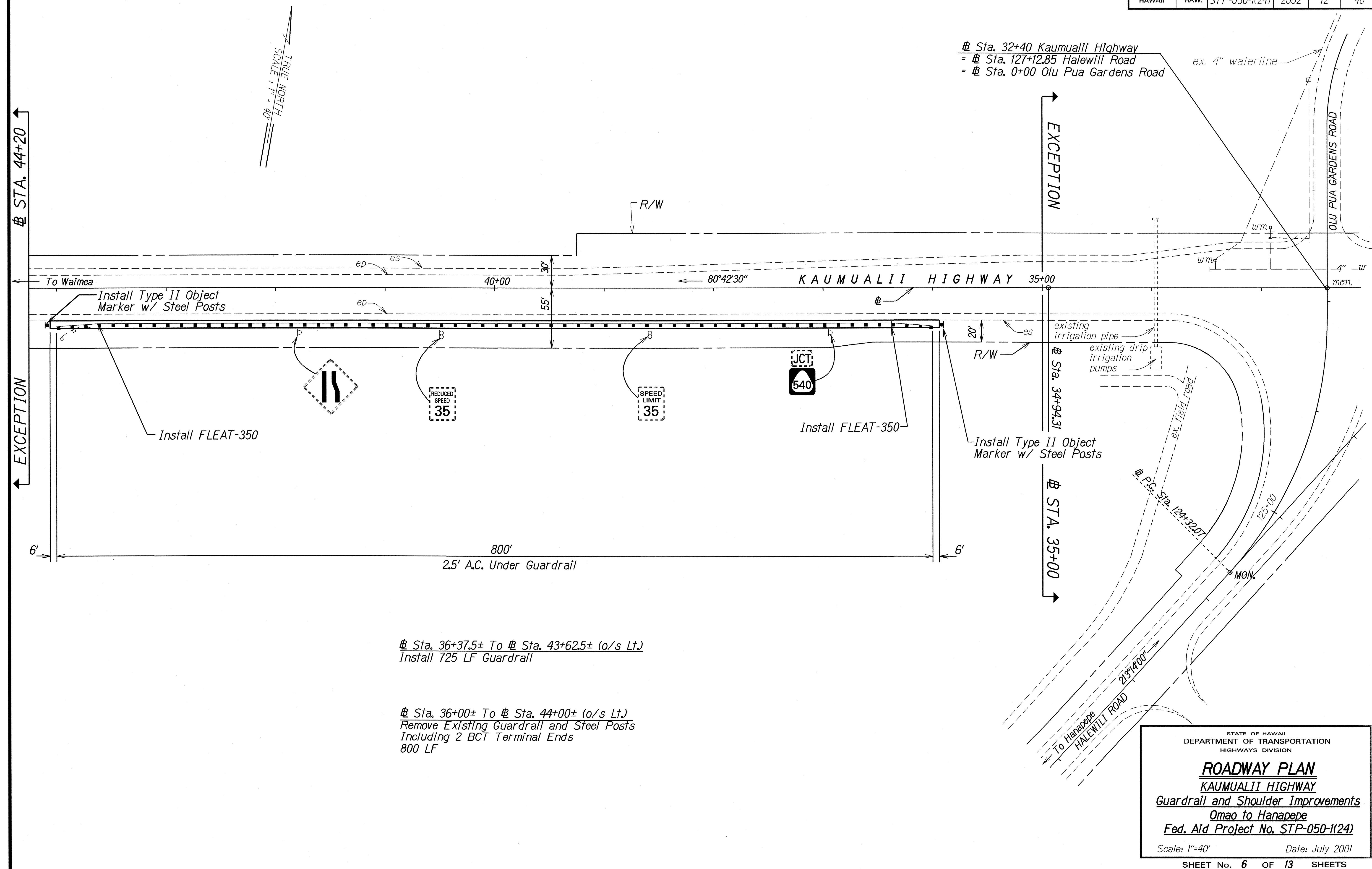
Omao to Hanapepe

Fed. Aid Project No. STP-050-1(24)

Scale: 1"=40' Date: July 2001

SHEET No. 5 OF 13 SHEETS

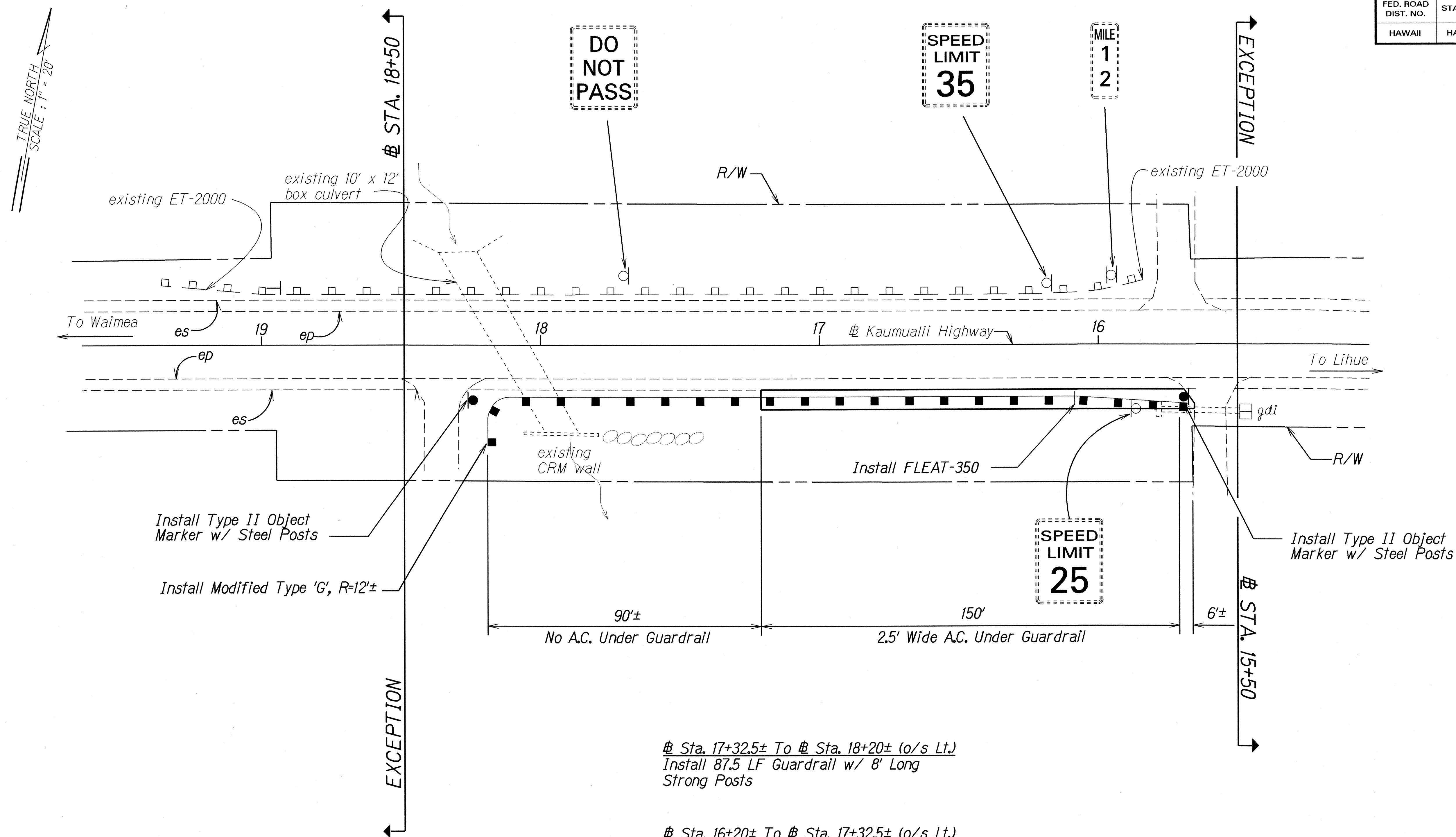
FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	STP-050-1(24)	2002	12	40



STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

ROADWAY PLAN
KAUMUALII HIGHWAY
Guardrail and Shoulder Improvements
Omao to Hanalei
Fed. Aid Project No. STP-050-1(24)
Scale: 1"=40' Date: July 2001
SHEET No. 6 OF 13 SHEETS

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	STP-050-1(24)	2002	13	40



Sta. 17+32.5± To Sta. 18+20± (o/s Lt.)
 Install 87.5 LF Guardrail w/ 8' Long Strong Posts

 Sta. 16+20± To Sta. 17+32.5± (o/s Lt.)
 Install 112.5 LF Guardrail

 Sta. 15+70± To Sta. 18+20± (o/s Lt.)
 Remove Existing Guardrail and Steel Posts
 Including 1 BCT Terminal End and 1 Modified Type 'G'
 250 LF

ORIGINAL PLAN	SURVEY PLOTTED BY	DATE
NOTED	DESIGNED BY	
QUANTITIES BY	CHECKED BY	

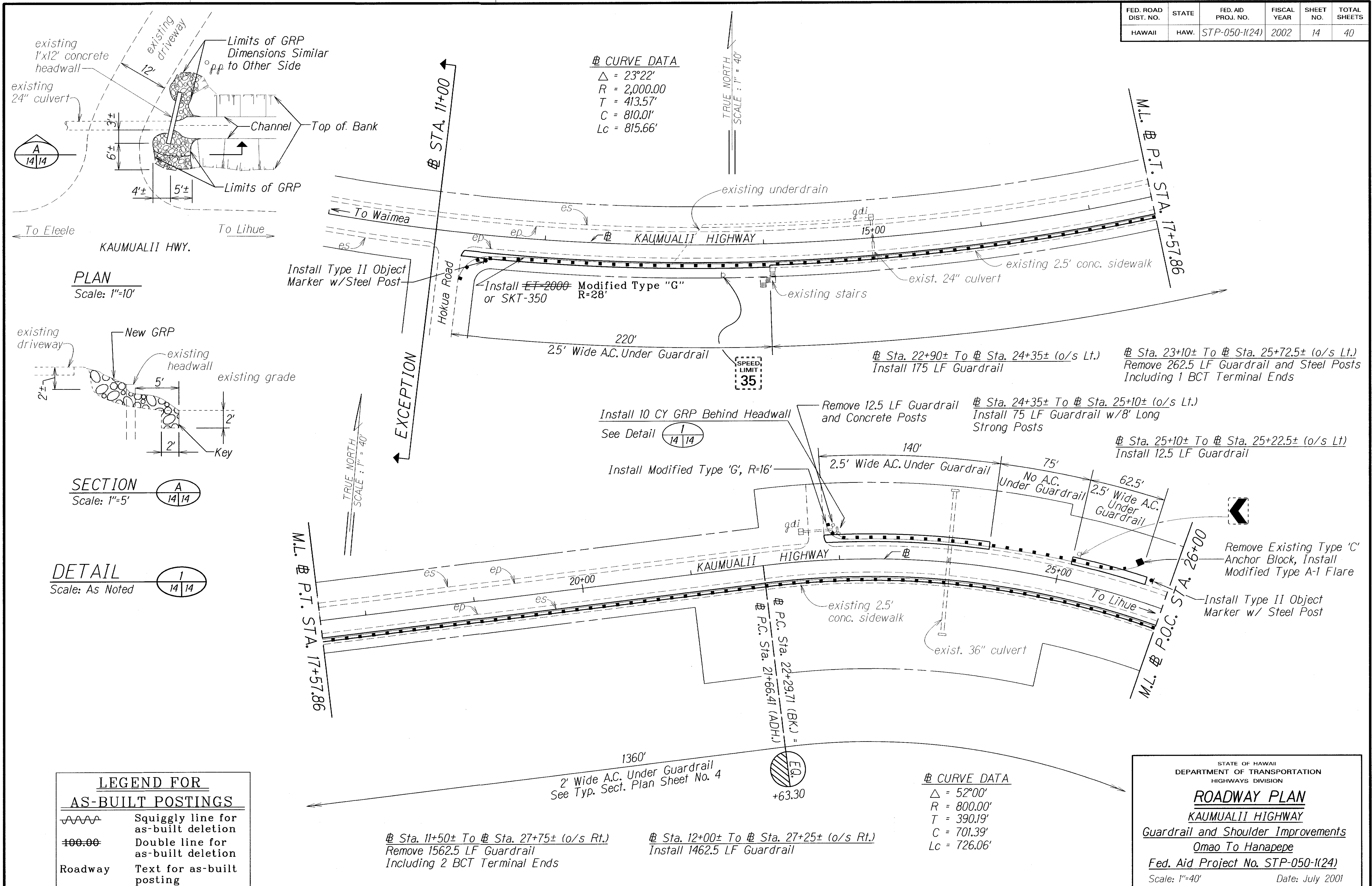
STATE OF HAWAII
 DEPARTMENT OF TRANSPORTATION
 HIGHWAYS DIVISION

ROADWAY PLAN
 KAUMUALII HIGHWAY
 Guardrail and Shoulder Improvements
 O'ahu to Hanalei
 Fed. Aid Project No. STP-050-1(24)

Scale: 1"=20'
 Date: July 2001

SHEET No. 7 OF 13 SHEETS

--- existing way --- limits of GDP

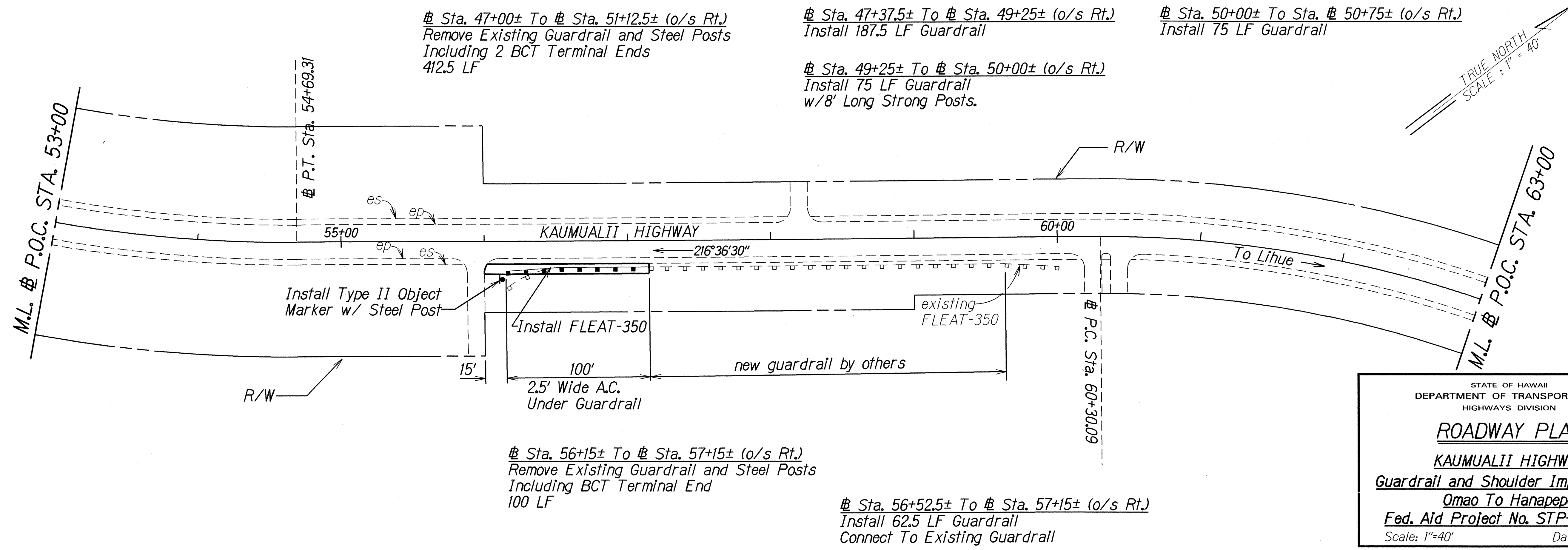
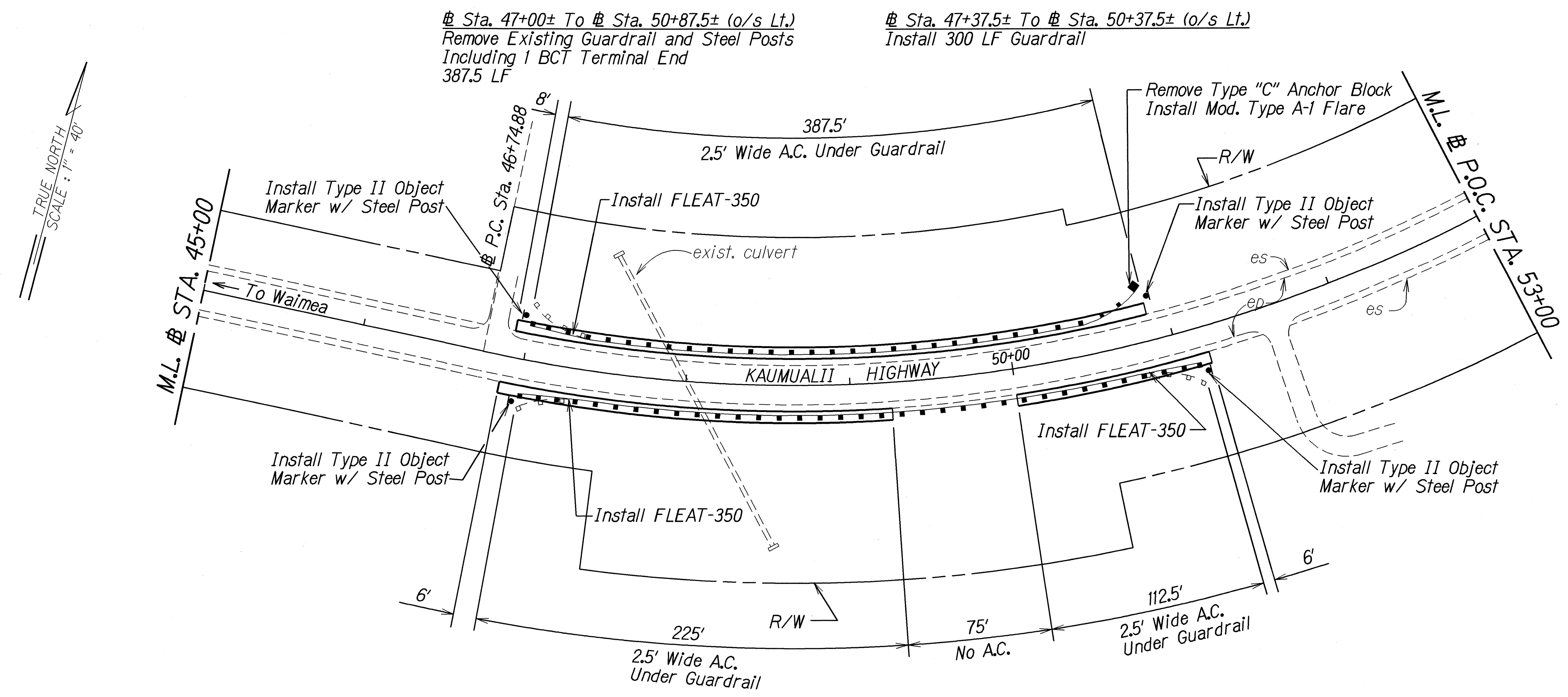


ORIGINAL PLAN	SURVEY PLOTTED BY _____	DATE _____
	DRAWN BY <i>12/10/12</i>	<i>2</i>
	TRACED BY _____	-
NOTE BOOK	DESIGNED BY <i>12/10/12</i>	-
432/10/12	QUANTITIES BY _____	-
<i>12/10/12.dgn</i>	CHECKED BY _____	-
N ₁		

"AS-BUILT"

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	STP-050-1(24)	2002	16	40

§ CURVE DATA
 $\Delta = 50^\circ 34' 30''$
 $R = 900.00'$
 $T = 425.18'$
 $C = 768.89'$
 $L_c = 794.43'$



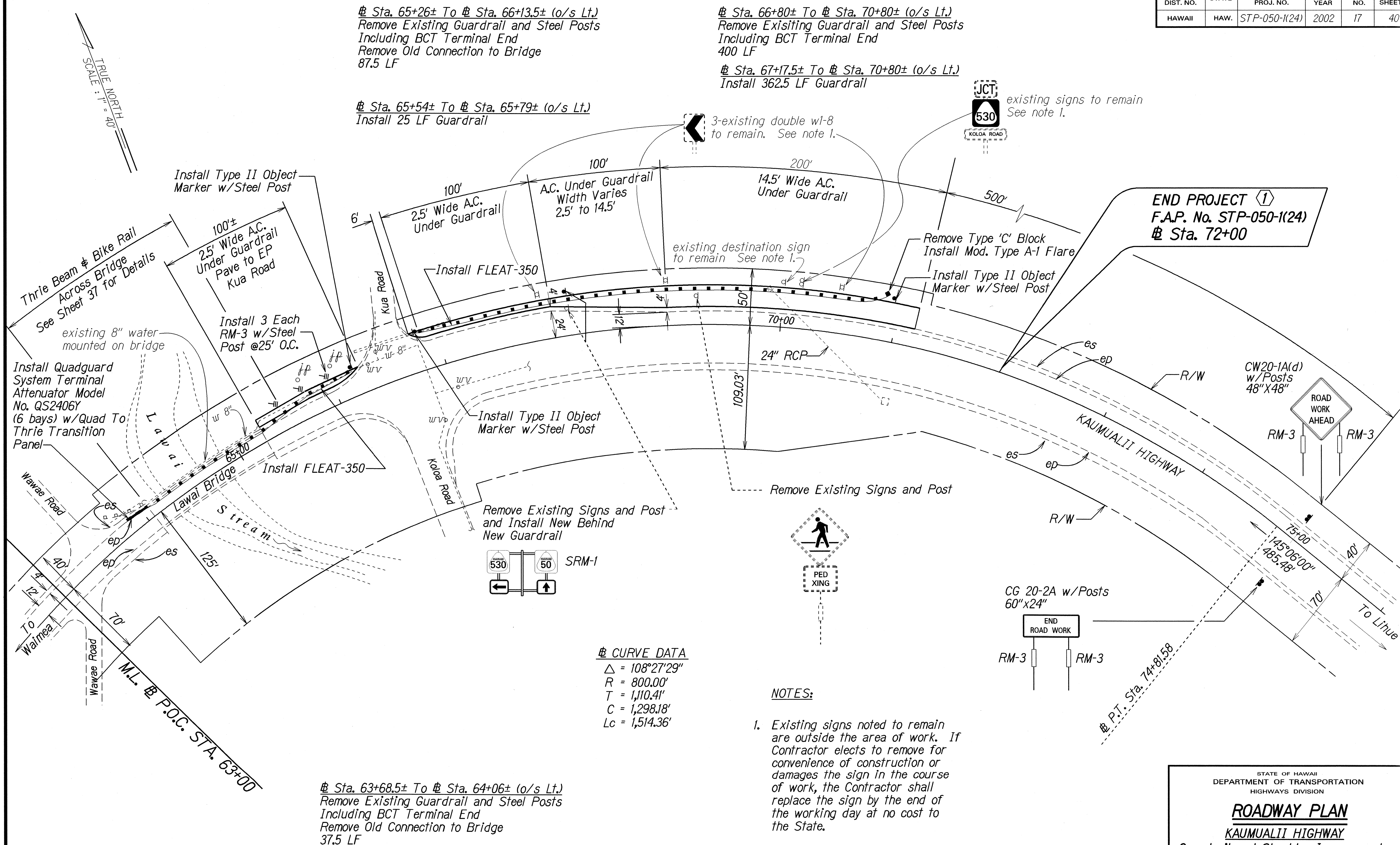
SURVEY PLOTTED BY	DATE
DESIGNED BY	
CHECKED BY	
QUANTITIES BY	
NOTED BY	
DATE	

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

ROADWAY PLAN
KAUMUALII HIGHWAY
Guardrail and Shoulder Improvements
Omao To Hanapepe
Fed. Aid Project No. STP-050-1(24)
Scale: 1"=40' Date: July 2001

SHEET No. 10 OF 13 SHEETS

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	STP-050-1(24)	2002	17	40



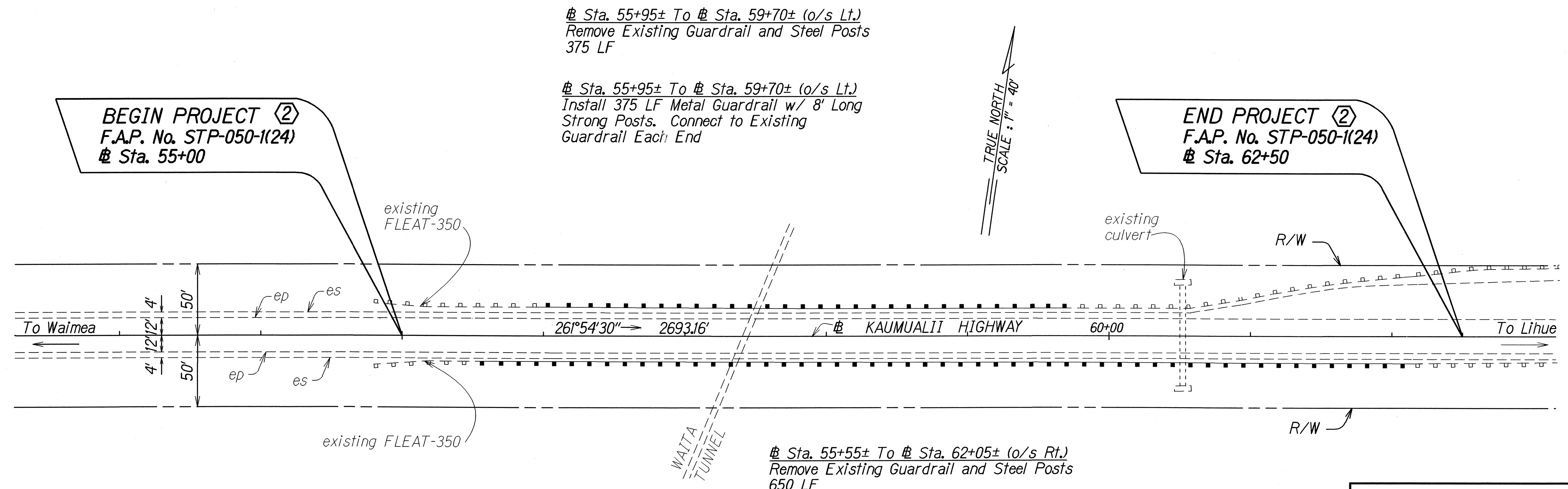
STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

ROADWAY PLAN
KAUMUALII HIGHWAY
Guardrail and Shoulder Improvements
Omao to Hanapepe
Fed. Aid Project No. STP-050-1(24)

Scale: 1"=40' Date: July 2001

SHEET No. 17 OF 13 SHEETS

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	STP-050-1(24)	2002	18	40



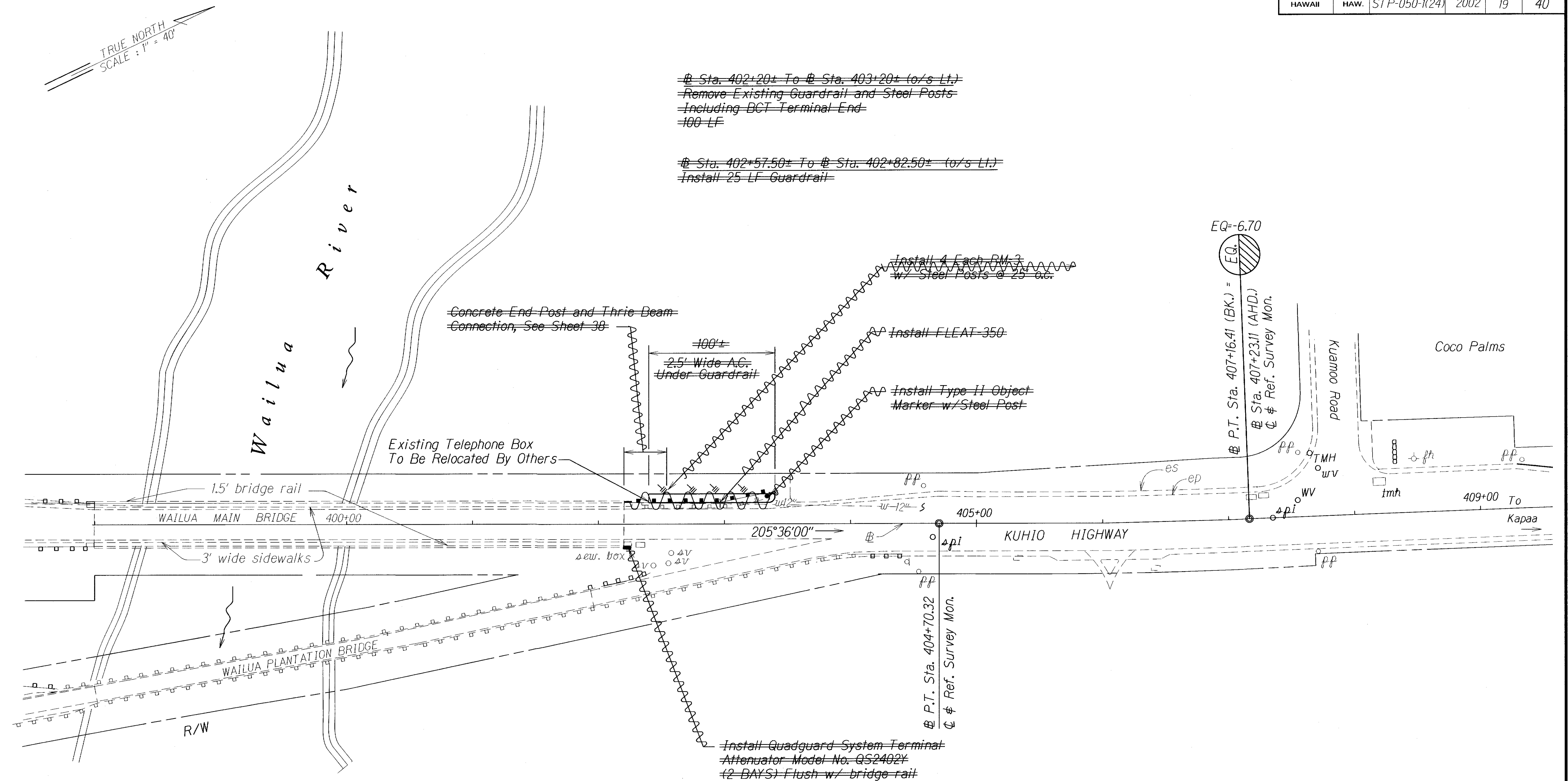
ORIGINAL PLAN	SURVEY PLOTTED BY	DATE
NOTED BY	DESIGNED BY	
QUANTITIES BY	CHECKED BY	

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

ROADWAY PLAN
KAUMUALII HIGHWAY
Guardrail and Shoulder Improvements
Omao to Hanalei
Fed. Aid Project No. STP-050-1(24)
Scale: 1"=40' Date: July 2001

SHEET No. 12 OF 13 SHEETS

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	STP-050-1(24)	2002	19	40



ORIGINAL PLAN	SURVEY PLOTTED BY	DATE
NOTE BOOK	DRAWN BY	
DESIGNED BY	TRACED BY	
CHECKED BY	CHECKED BY	

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

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

ROADWAY PLAN

KAUMUALII HIGHWAY
Guardrail and Shoulder Improvements
Omao to Hanapepe
Fed. Aid Project No. STP 050-1(24)

Scale: 1" = 40" Date: July 2001

SHEET No. 13 OF 13 SHEETS

"AS-BUILT"