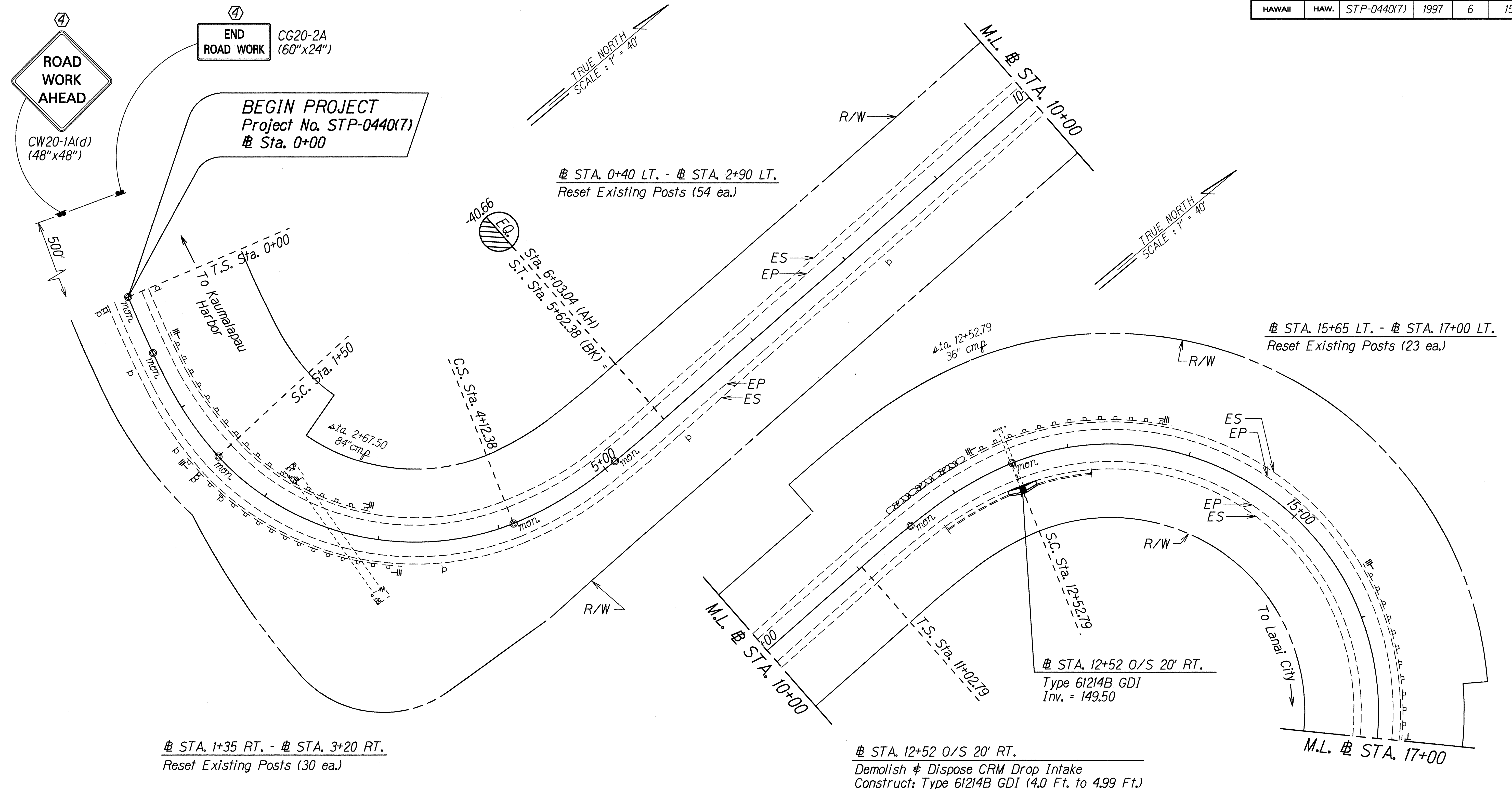


FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	STP-0440(7)	1997	6	15



KEY:

- ① Exist. Sign(s) & Post(s) to Remain
- ② Remove Exist. Sign(s) & Post(s)
- ③ Remove Exist. & Install New Sign(s) & Post(s)
- ④ Install New Sign(s) & Post(s)

ESTIMATED QUANTITIES

Type 61214B GDI, 4.00 Ft. to 4.99 Ft. 1 EA

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

ROADWAY PLAN

KAUMALAPAU HIGHWAY

GUARDRAIL & SHOULDER IMPROVEMENTS

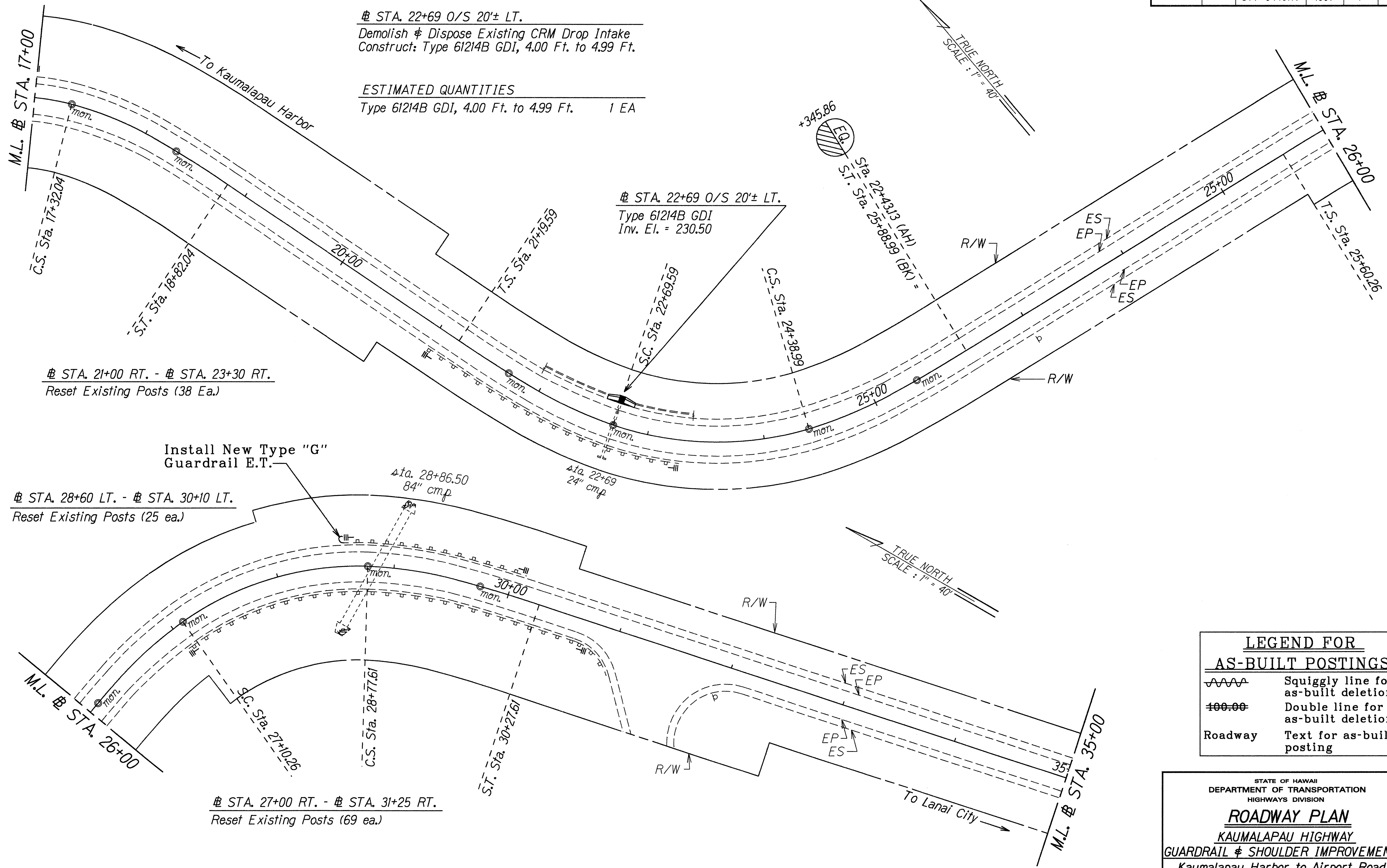
Kaumalapau Harbor to Airport Road

Fed. Aid Project No. STP-0440(7)

Scale: 1" = 40' Date: October, 1996

SHEET No. 1 OF 9 SHEETS

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	STP-0440(7)	1997	7	15



⚡ STA. 21+00 RT. - ⚡ STA. 23+30 RT.
Reset Existing Posts (38 Ea.)

Install New Type "G"
Guardrail E.T.
⚡ STA. 28+60 LT. - ⚡ STA. 30+10 LT.
Reset Existing Posts (25 ea.)

⚡ STA. 27+00 RT. - ⚡ STA. 31+25 RT.
Reset Existing Posts (69 ea.)

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

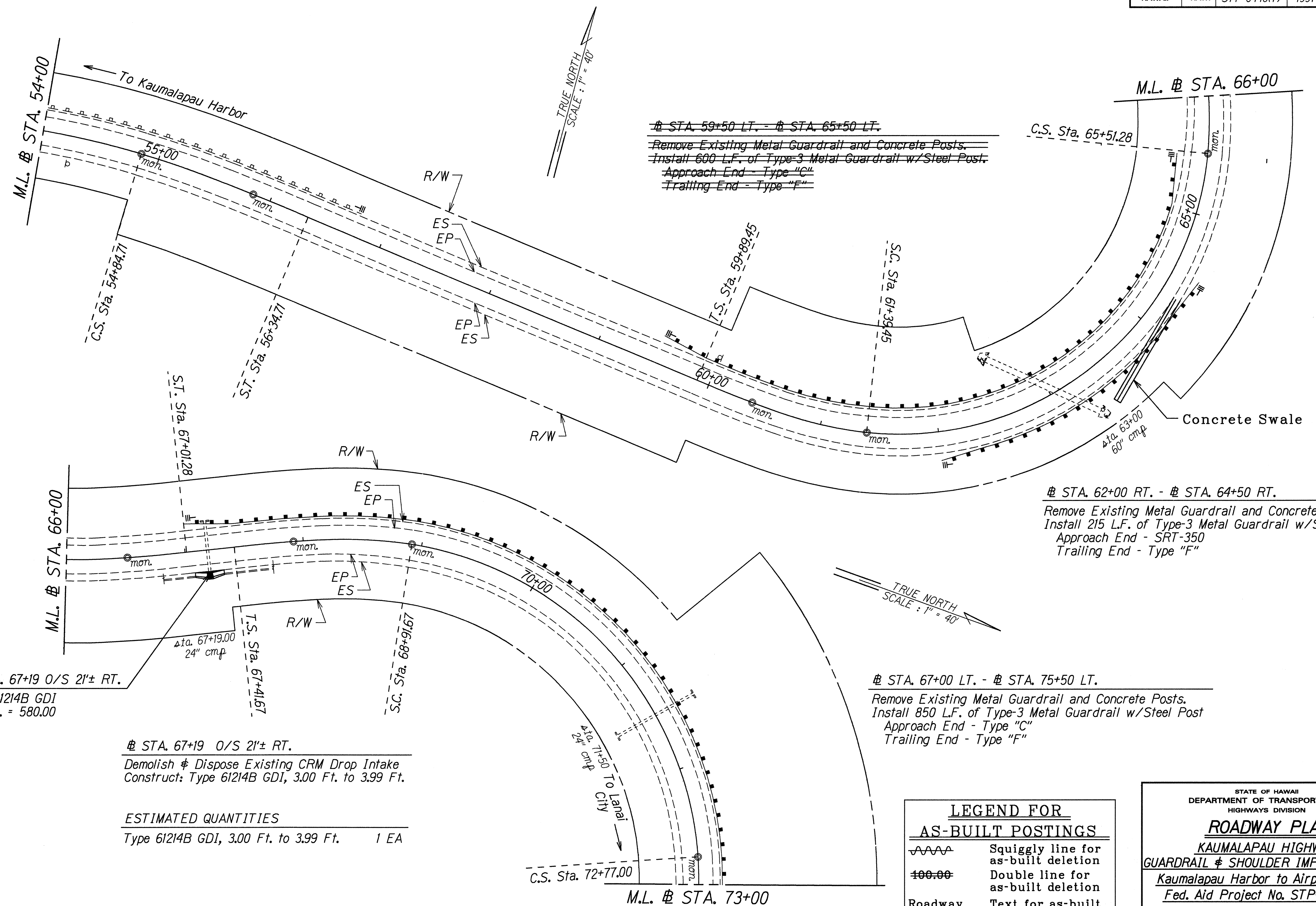
STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

ROADWAY PLAN
KAUNALAPAU HIGHWAY
GUARDRAIL & SHOULDER IMPROVEMENTS
Kaunapau Harbor to Airport Road
Fed. Aid Project No. STP-0440(7)
Scale: 1" = 40'
Date: October, 1996

SHEET No. 2 OF 9 SHEETS

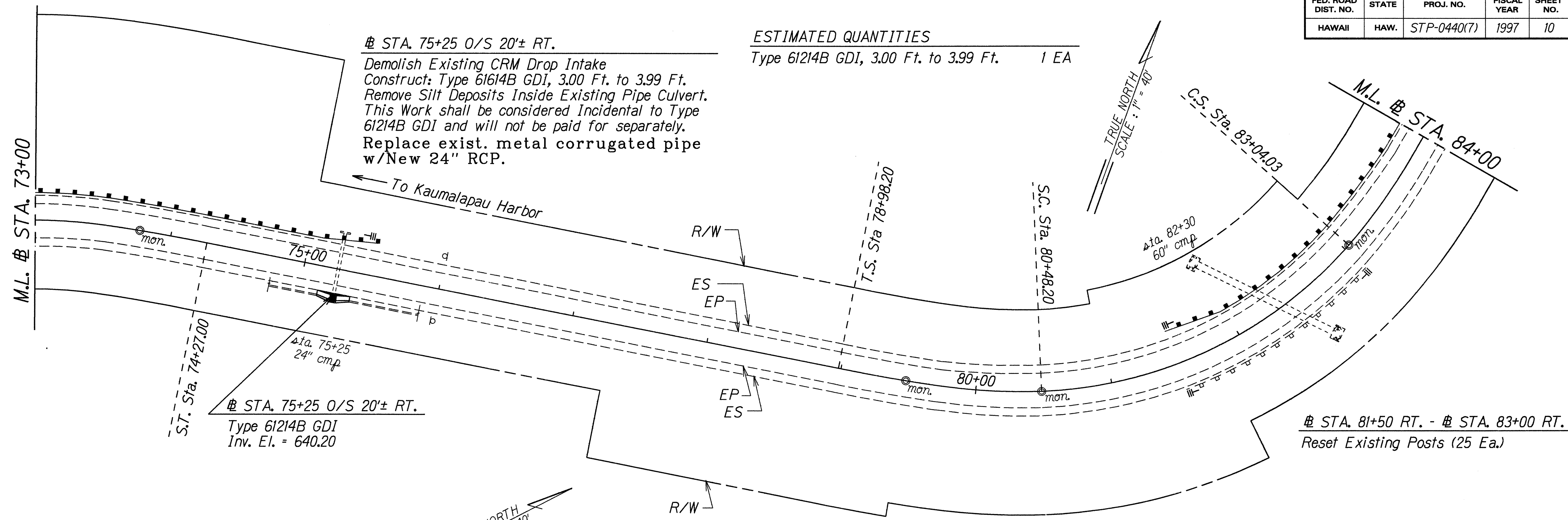
ORIGINAL PLAN	SURVEY PLOTTED BY	DATE
NOTE BOOK	DRAWN BY	12/14/97
10/10/97	DESIGNED BY	
10/10/97	QUANTITIES BY	
10/10/97	CHECKED BY	

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	STP-0440(7)	1997	9	15

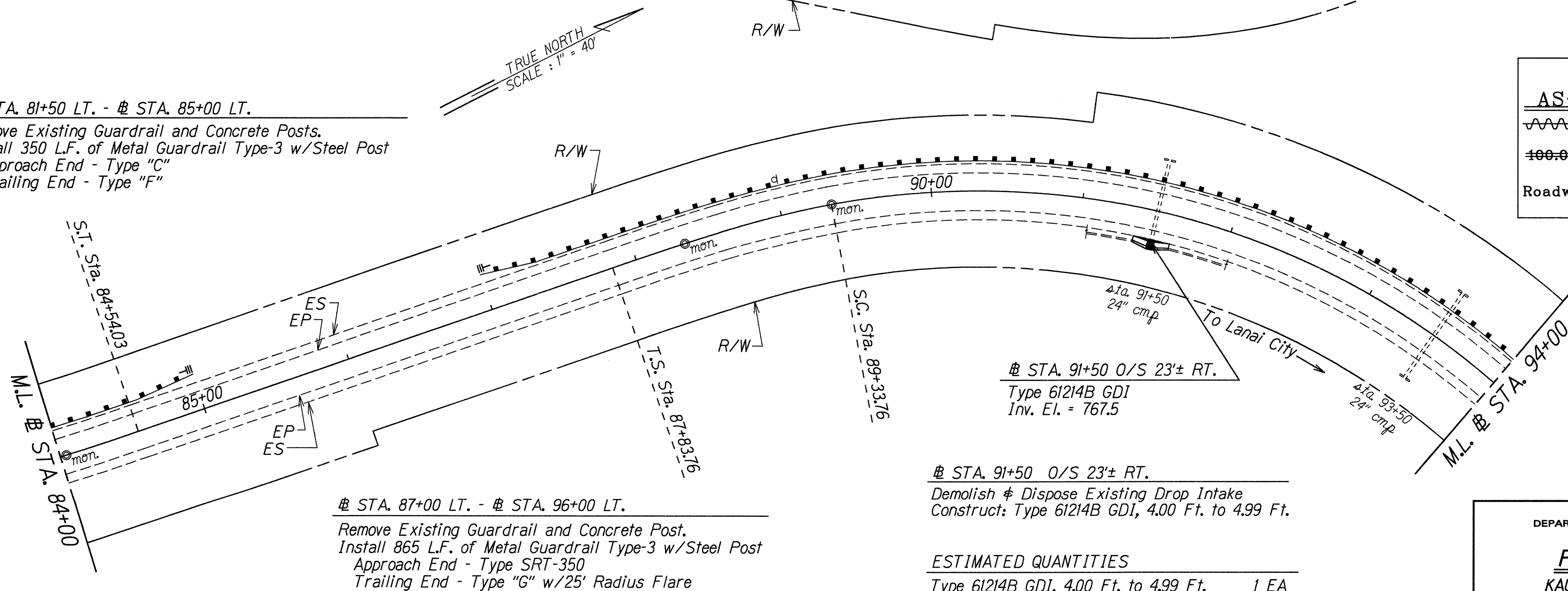


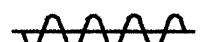
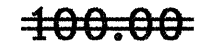
ORIGINAL PLAN	DATE	2/14/97
SURVEY PLOTTED BY		
DRAWN BY		
CHECKED BY		
NOTED BY		
DESIGNED BY		
QUANTITIES BY		
CHECKED BY		

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	STP-0440(7)	1997	10	15



STA. 81+50 LT. - # STA. 85+00 LT.
Remove Existing Guardrail and Concrete Posts.
Install 350 L.F. of Metal Guardrail Type-3 w/Steel Post
Approach End - Type "C"
Trailing End - Type "F"



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

STA. 91+50 O/S 23'± RT.
Demolish & Dispose Existing Drop Intake
Construct: Type 61214B GDI, 4.00 Ft. to 4.99 Ft.

ESTIMATED QUANTITIES
Type 61214B GDI, 4.00 Ft. to 4.99 Ft. 1 EA

ORIGINAL PLAN	DATE: 7/24/97
SURVEY PLOTTED BY: JG	
DRAWN BY: JG	
DESIGNED BY: CR	
QUANTITIES BY: JG	
CHECKED BY: JG	

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

ROADWAY PLAN

KAUNALAPAU HIGHWAY

GUARDRAIL & SHOULDER IMPROVEMENTS

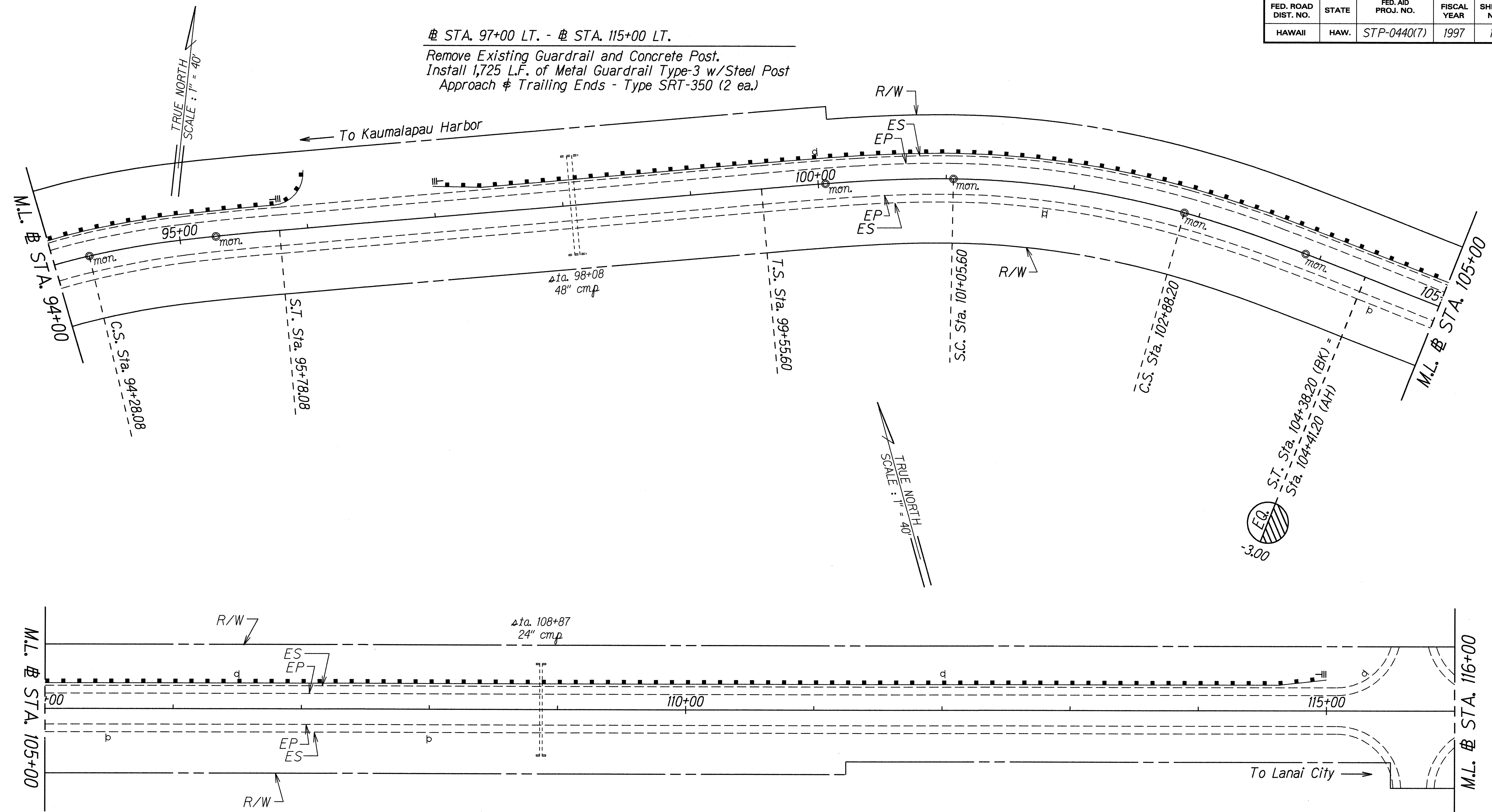
Kaunapau Harbor to Airport Road

Fed. Aid Project No. STP-0440(7)

Scale: 1" = 40' Date: October, 1996

SHEET No. 5 OF 9 SHEETS

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	STP-0440(7)	1997	11	15



ORIGINAL PLAN	DATE
SURVEY PLotted BY	Oct. 1996
DESIGNED BY	
QUANTITIES BY	
CHECKED BY	

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

ROADWAY PLAN

KAUMALAPAU HIGHWAY

GUARDRAIL & SHOULDER IMPROVEMENTS

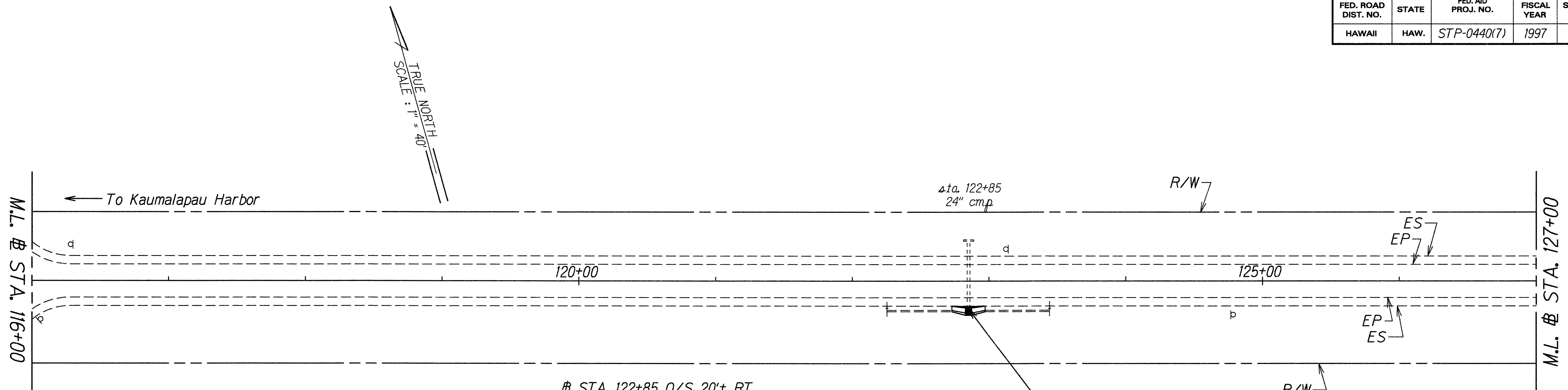
Kaumalapau Harbor to Airport Road

Fed. Aid Project No. STP-0440(7)

Scale: 1" = 40' Date: October, 1996

SHEET No. 6 OF 9 SHEETS

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	STP-0440(7)	1997	12	15



STA. 122+85 O/S 20'± RT.

Demolish & Dispose Existing Drop Intake
Construct: Type 61214B GDI, 3.00 Ft. to 3.99 Ft.
Remove Silt Deposits Inside Existing Pipe Culvert.
This Work shall be considered Incidental to Type 61214B GDI and will not be paid for separately.
Replace exist. metal corrugated pipe w/New 24" RCP.

STA. 122+85 O/S 20'± RT.

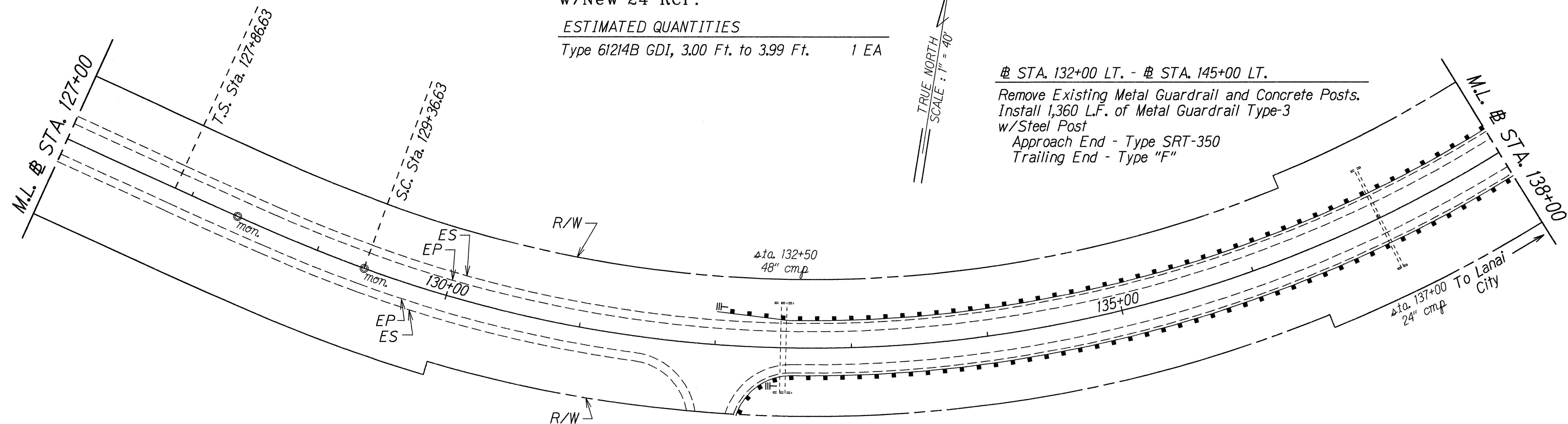
Type 61214B GDI
Inv. El. = 994.80

ESTIMATED QUANTITIES

Type 61214B GDI, 3.00 Ft. to 3.99 Ft. 1 EA

STA. 132+00 LT. - # STA. 145+00 LT.

Remove Existing Metal Guardrail and Concrete Posts.
Install 1,360 L.F. of Metal Guardrail Type-3 w/Steel Post
Approach End - Type SRT-350
Trailing End - Type "F"



LEGEND FOR AS-BUILT POSTINGS

~~~~~ Squiggly line for as-built deletion  
+00.00 Double line for as-built deletion  
Roadway Text for as-built posting

# STA. 132+00 RT. - # STA. 145+00 RT.

Remove Existing Metal Guardrail & Concrete Post.  
Install 1,360 L.F. of Metal Guardrail Type-3 w/Steel Post  
Approach End - Type "G" w/25' Radius Flare  
Trailing End - Type SRT-350

STATE OF HAWAII  
DEPARTMENT OF TRANSPORTATION  
HIGHWAYS DIVISION

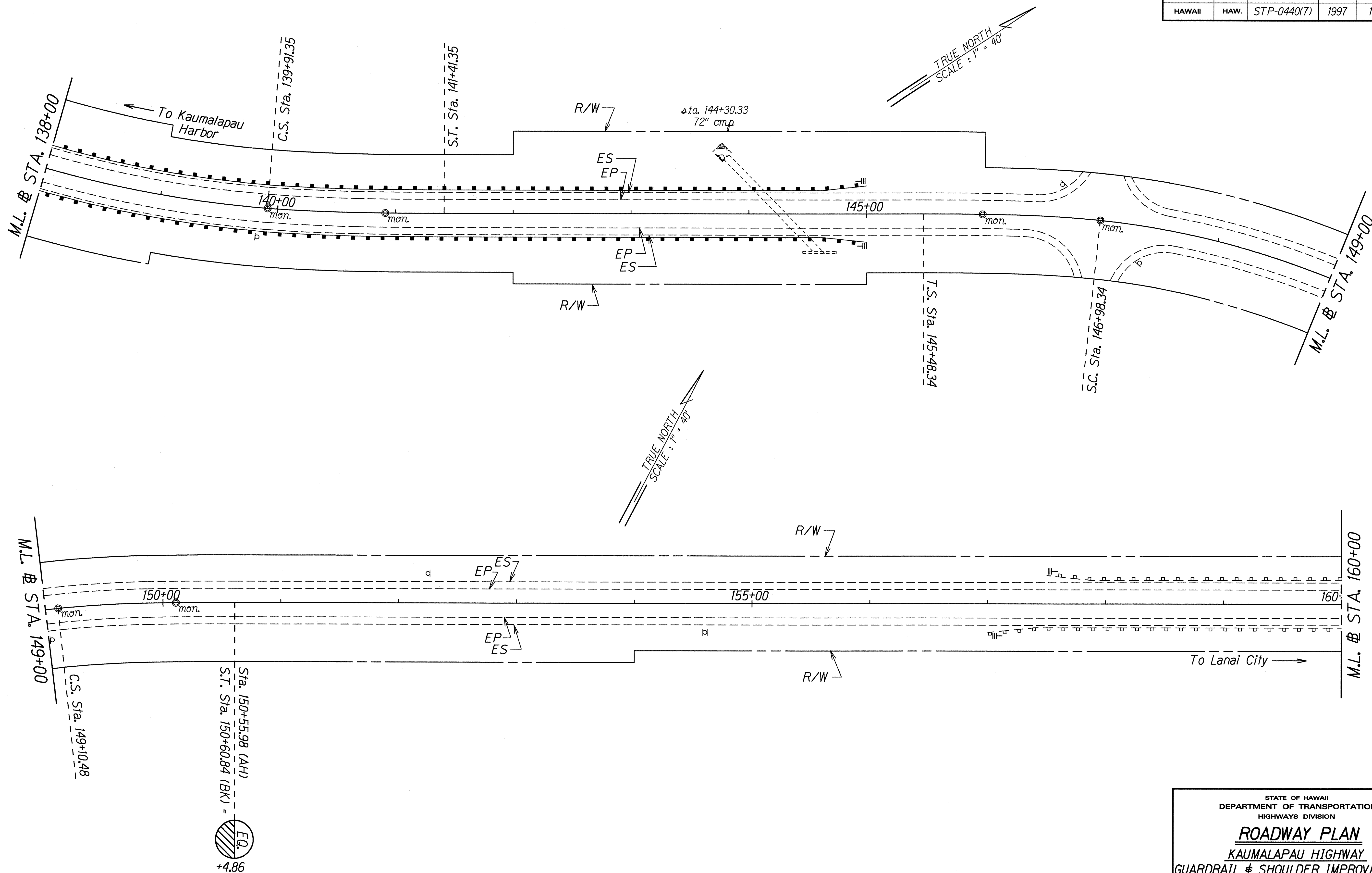
**ROADWAY PLAN**  
KAUNALAPAU HIGHWAY  
GUARDRAIL & SHOULDER IMPROVEMENTS  
Kaunapau Harbor to Airport Road  
Fed. Aid Project No. STP-0440(7)

Scale: 1" = 40' Date: October, 1996

SHEET No. 7 OF 9 SHEETS

|               |                   |         |
|---------------|-------------------|---------|
| ORIGINAL PLAN | SURVEY PLOTTED BY | DATE    |
| NOTE BOOK     | DRAWN BY          | 10/1/96 |
| 10/1/96       | DESIGNED BY       |         |
| 10/1/96       | QUANTITIES BY     |         |
| 10/1/96       | CHECKED BY        |         |

| FED. ROAD DIST. NO. | STATE | FED. AID PROJ. NO. | FISCAL YEAR | SHEET NO. | TOTAL SHEETS |
|---------------------|-------|--------------------|-------------|-----------|--------------|
| HAWAII              | HAW.  | STP-0440(7)        | 1997        | 13        | 15           |



|                   |         |
|-------------------|---------|
| DATE              | 10/1/96 |
| SURVEY PLOTTED BY | ...     |
| DESIGNED BY       | ...     |
| QUANTITIES BY     | ...     |
| CHECKED BY        | ...     |
| ORIGINAL PLAN     | ...     |
| NOTE BOOK         | ...     |
| ...               | ...     |

STATE OF HAWAII  
DEPARTMENT OF TRANSPORTATION  
HIGHWAYS DIVISION

**ROADWAY PLAN**  
**KAUMALAPAU HIGHWAY**  
**GUARDRAIL & SHOULDER IMPROVEMENTS**  
**Kaumalapau Harbor to Airport Road**  
**Fed. Aid Project No. STP-0440(7)**

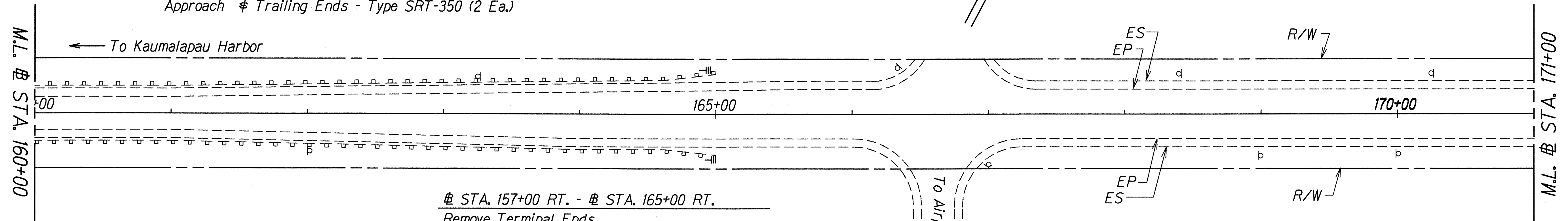
Scale: 1" = 40' Date: October, 1996

SHEET No. 8 OF 9 SHEETS

| FED. ROAD DIST. NO. | STATE | FED. AID PROJ. NO. | FISCAL YEAR | SHEET NO. | TOTAL SHEETS |
|---------------------|-------|--------------------|-------------|-----------|--------------|
| HAWAII              | HAW.  | STP-0440(7)        | 1997        | 14        | 15           |

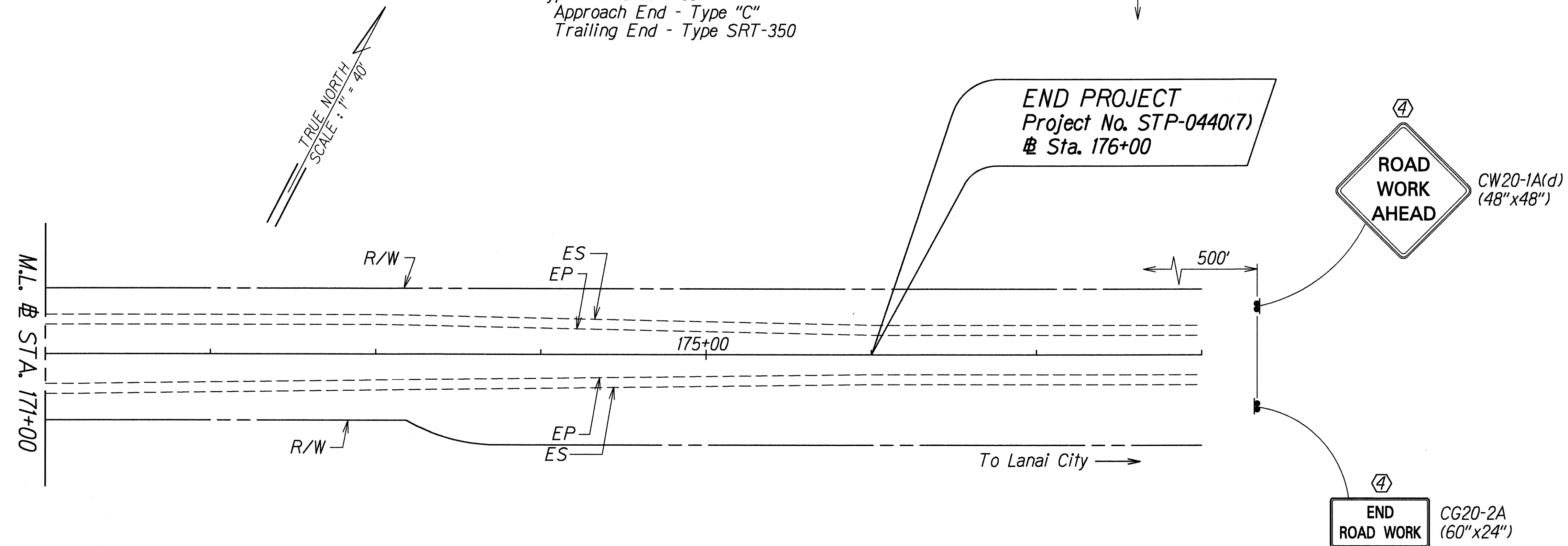
# STA. 157+50 LT. - # STA. 165+00 LT.

Remove Terminal Ends.  
Reset Existing Guardrail Posts (65 Each)  
Install and Extend 315 L.F. of Metal Guardrail  
Type-3 w/Steel Post  
Approach # Trailing Ends - Type SRT-350 (2 Ea.)



# STA. 157+00 RT. - # STA. 165+00 RT.

Remove Terminal Ends  
Reset Existing Guardrail Post (65 Ea.)  
Install and Extend 400 L.F. of Metal Guardrail  
Type-3 w/Steel Post  
Approach End - Type "C"  
Trailing End - Type SRT-350



**KEY:**

- ① Exist. Sign(s) # Post(s) to Remain
- ② Remove Exist. Sign(s) # Post(s)
- ③ Remove Exist. # Install New Sign(s) # Post(s)
- ④ Install New Sign(s) # Post(s)

|               |                   |          |
|---------------|-------------------|----------|
| ORIGINAL PLAN | SURVEY PLOTTED BY | DATE     |
| NOTE BOOK     | DESIGNED BY       | 12/14/96 |
| QUANTITIES BY | CHECKED BY        |          |
|               |                   |          |

STATE OF HAWAII  
DEPARTMENT OF TRANSPORTATION  
HIGHWAYS DIVISION

**ROADWAY PLAN**  
**KAUNALAPAU HIGHWAY**  
**GUARDRAIL # SHOULDER IMPROVEMENTS**  
**Kaunapau Harbor to Airport Road**  
**Fed. Aid Project No. STP-0440(7)**

Scale: 1" = 40' Date: October, 1996

SHEET No. 9 OF 9 SHEETS