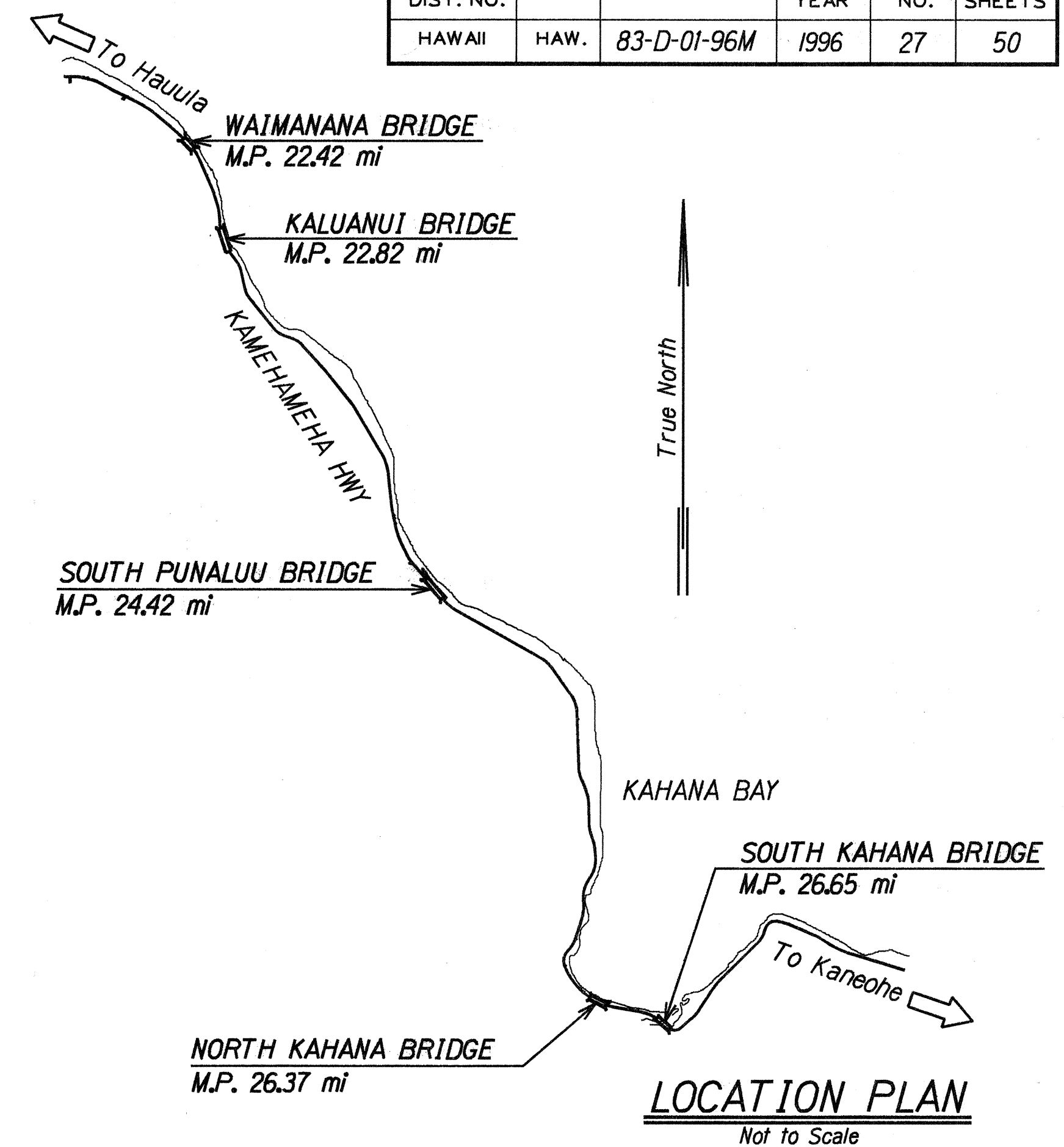
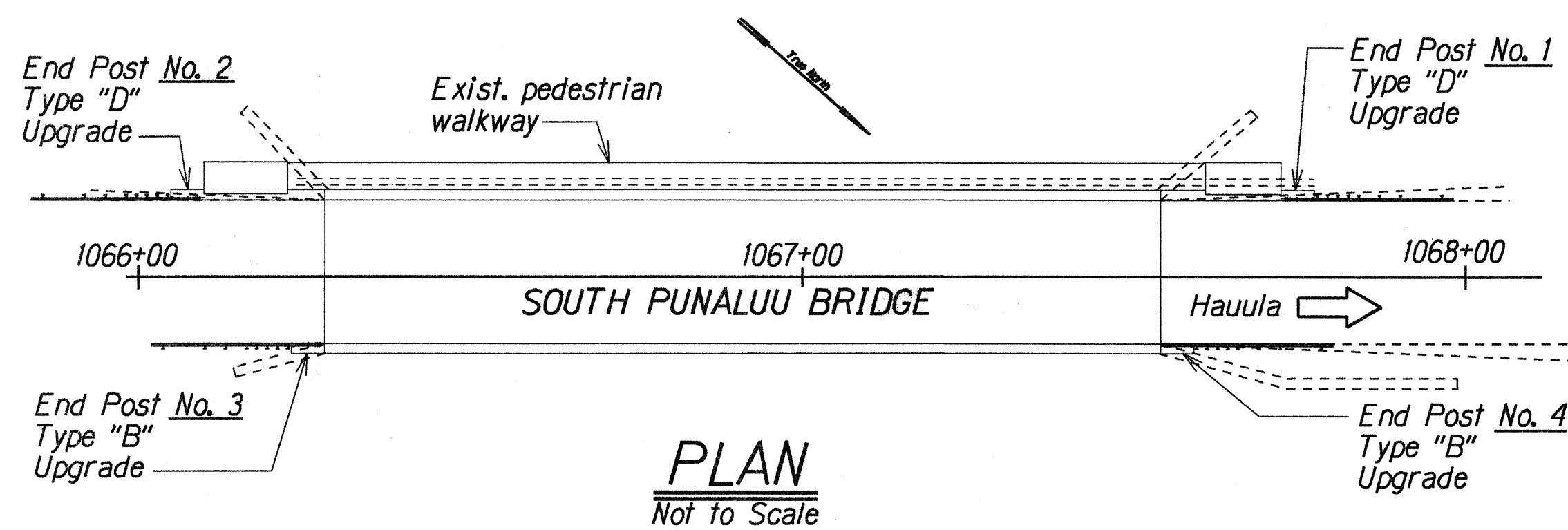
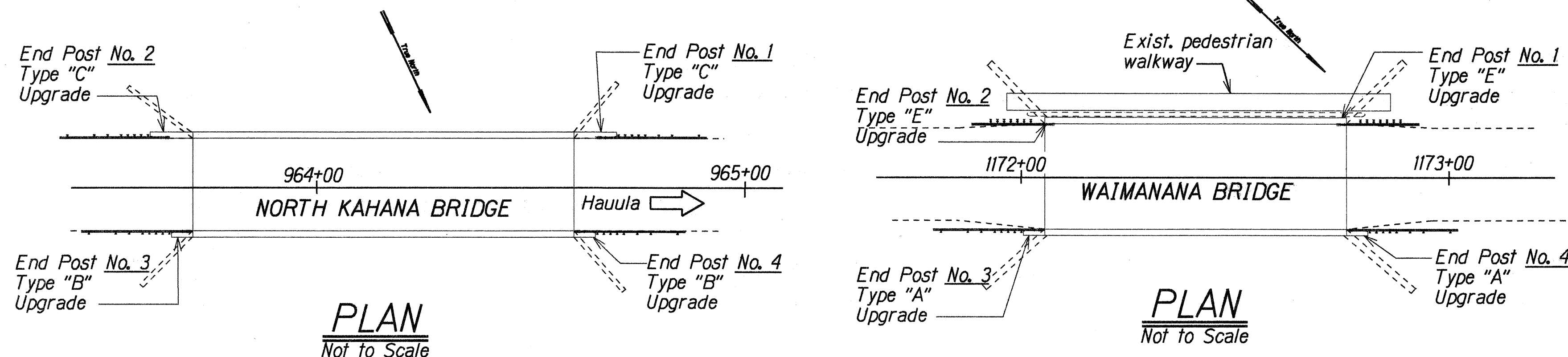
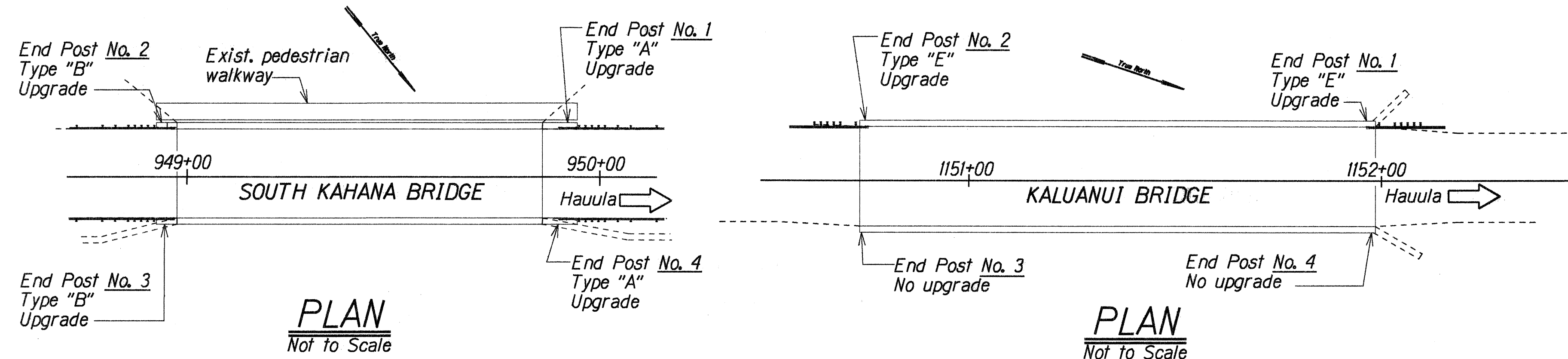


FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	83-D-01-96M	1996	27	50



GENERAL NOTES:

- See Standard Specifications for Road & Bridge Construction, (Hawaii, 1994) & Special Provisions.
- See State of Hawaii, D.O.T. Standard Plans; Sht. *TE-57 for metal guardrail and "terminal connector" details.
- All anchor bolts shall be high strength bolts conforming to the requirements of ASTM A 325. Heads of through bolts shall be placed on the traffic side of the rail.
- "Terminal Connector" shall be fabricated from 10 gauge steel conforming to the requirements AASHTO M 180.
- "Terminal Connector" including all anchor bolts, cap PL's, nuts and washers, shall be hot-dip galvanized after fabrication.
- Anchor bolt length or embedment depth shall be such that a snug fit of the elements and full thread engagement plus 1/4" (max.) is attained.
- Large impacting or vibratory type of equipment will not be permitted in the removal operation of the designated items nor for drilling of holes.
- Any damage to the existing structures due to the Contractor's operation shall be repaired at his expense, to the satisfaction of the Engineer.
- The Contractor shall verify all dimensions in the field before commencing with work.
- The Contractor shall verify the location of all existing utility lines near structures and notify their respective owners before commencing with work.
- The work necessary to connect guardrail to concrete end post shall include all labor, materials, tools, equipment and incidentals necessary to complete the work and shall be incidental to the metal guardrail and will not be paid for separately.
- Contract items will be paid for in units indicated in the Estimated Quantities.
- Existing structure shown by hatched lines.

DESIGNED BY	DATE
DRAWN BY	May 1996
CHECKED BY	
IN CHARGE	
NOTED BY	
QUANTITIES BY	
REVISIONS	
NO.	DATE
1	May 1996
2	May 1996
3	May 1996

ESTIMATED QUANTITIES								
ITEM NO.	ITEM	UNIT	QUANTITIES					TOTAL
			SOUTH KAHANA BRIDGE	NORTH KAHANA BRIDGE	SOUTH PUNALUU BRIDGE	KALUANUI BRIDGE	WAIMANANA BRIDGE	
507.7610	Type "A" Upgrade	Ea.	2	—	—	—	2	2
507.7620	Type "B" Upgrade	Ea.	2	2	2	—	—	6
507.7630	Type "C" Upgrade	Ea.	—	2	—	—	—	2
507.7640	Type "D" Upgrade	Ea.	—	—	2	—	—	2
507.7650	Type "E" Upgrade	Ea.	—	—	—	2	2	4
606.3112	Guardrail Type 3TG Thrie Beam Connection	Lin. ft.	100	100	100	—	50	350
677.1010	Sealing Cracks	Lin. ft.	—	—	—	—	6	6

STATE OF HAWAII	
DEPARTMENT OF TRANSPORTATION	
HIGHWAYS DIVISION	
SOUTH AND NORTH KAHANA, SOUTH PUNALUU	
KALUANUI AND WAIMANANA BRIDGES	
LAYOUT AND LOCATION PLANS	
GENERAL NOTES AND ESTIMATED QUANTITIES	
KAMEHAMEHA HIGHWAY RESURFACING	
Crouching Lion to Puhuli Street	
Scale: As Noted	Project No. 83D-01-96M
Date: May 1996	