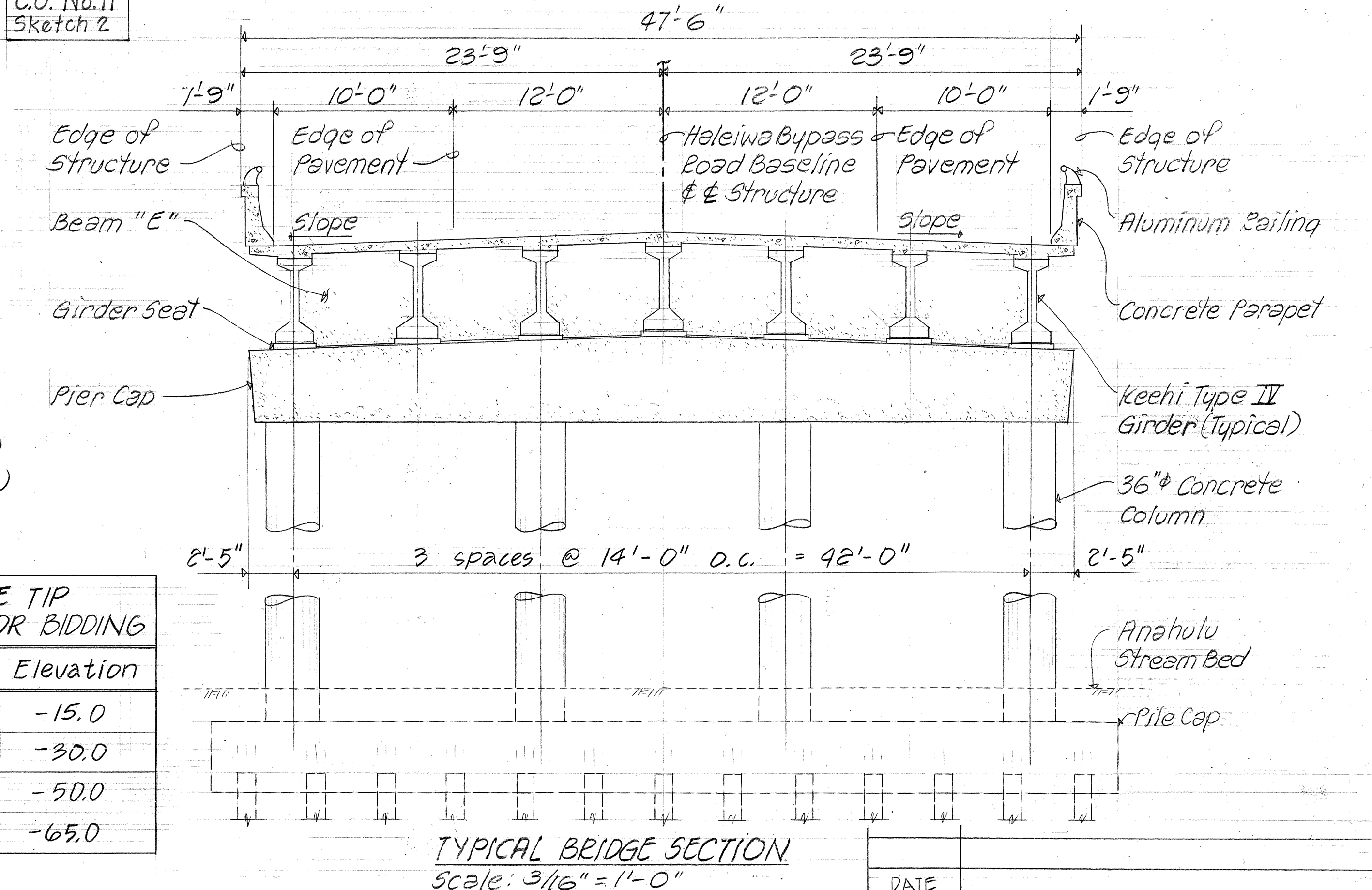
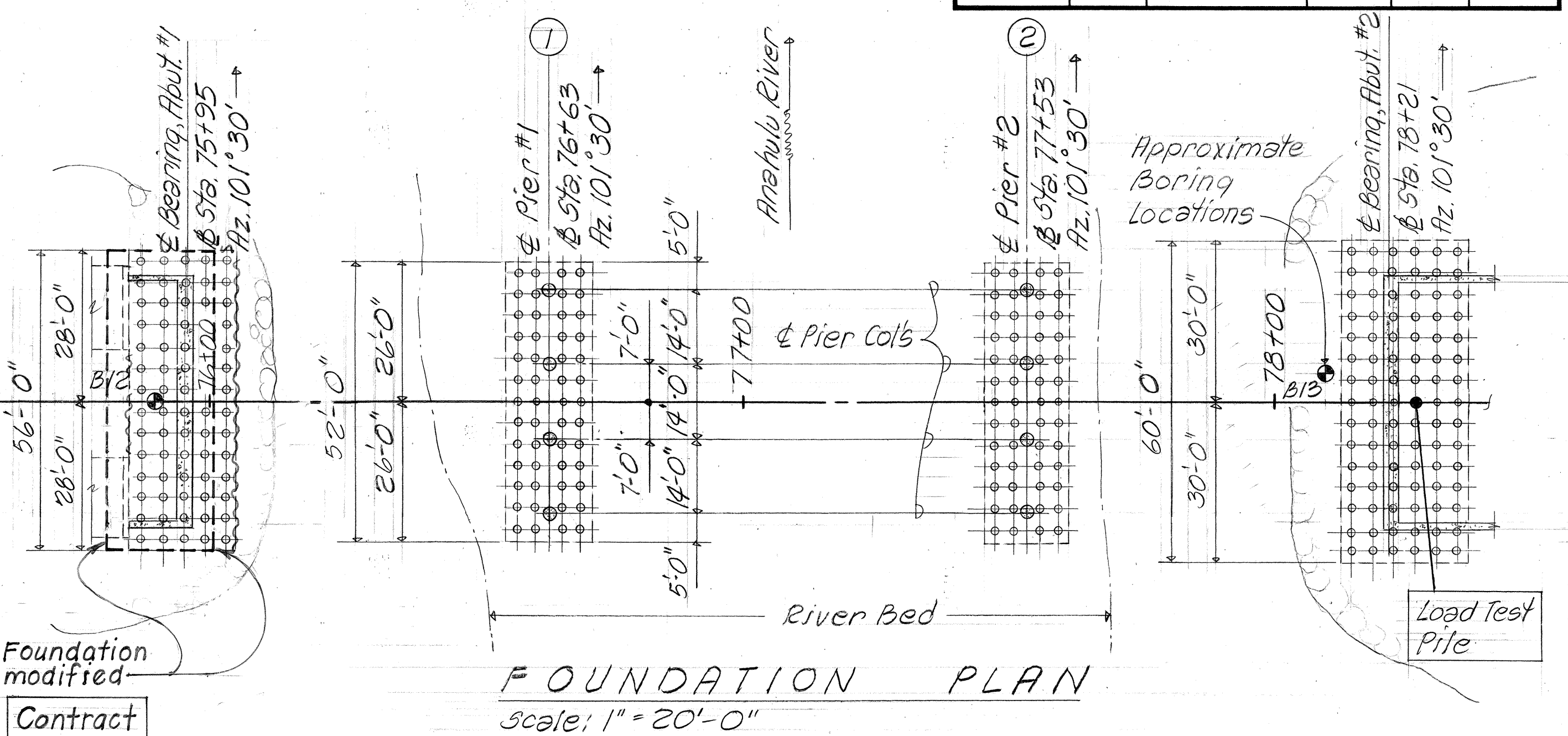
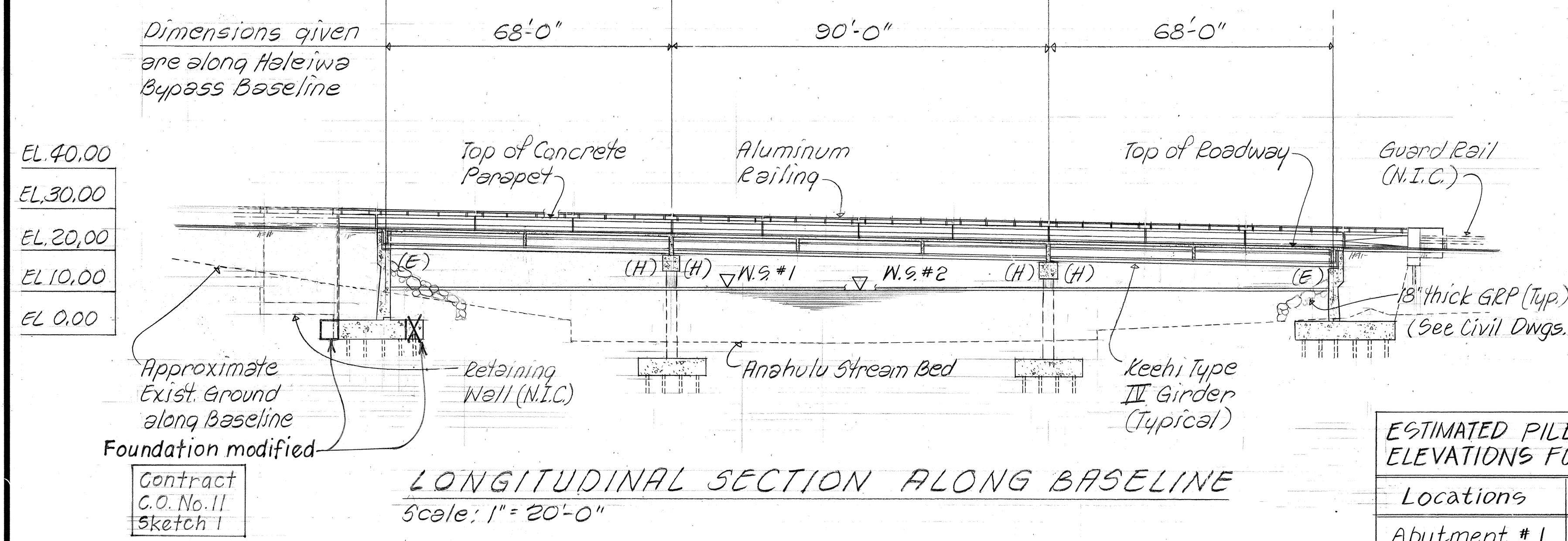
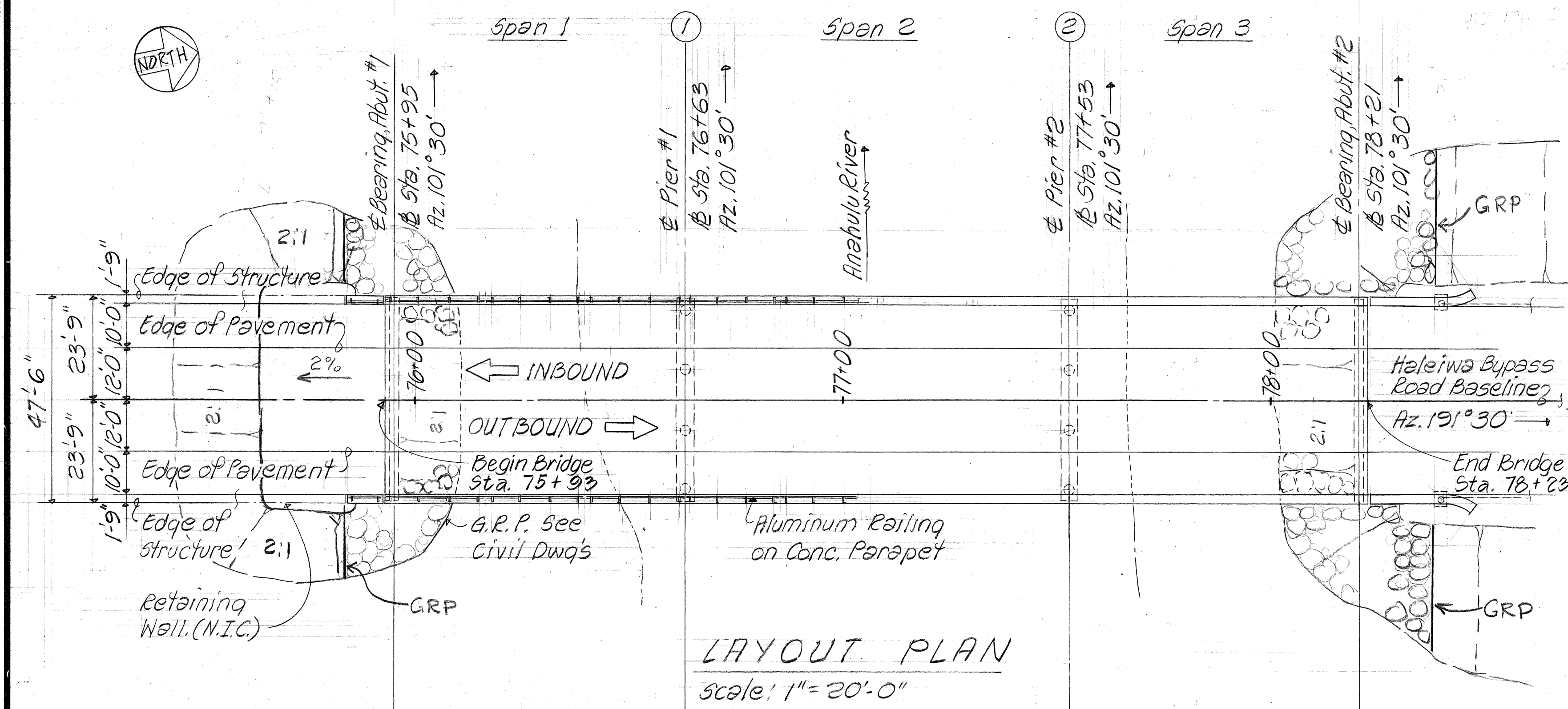


FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	F-083-1(24)	1990	101	125



ESTIMATED PILE TIP ELEVATIONS FOR BIDDING	
Locations	Elevation
Abutment #1	-15.0
Pier #1	-30.0
Pier #2	-50.0
Abutment #2	-65.0

HYDRAULIC DATA			
W.S. #1	Q100 = 16,400 cfs	V = 7.1 fps	W.S. Elev. = 10.5
W.S. #2	Q50 = 14,100 cfs	V = 6.3 fps	W.S. Elev. = 10.0

- SPECIAL NOTES**
- Unless shown otherwise, all transverse dimensions are perpendicular to Haleiwa Bypass Road Baseline.
 - In general bridge superstructure shall be constructed to follow the finish roadway.
 - See Civil Dwg's. for top at roadway elevations not indicated on the Structural Dwg's.

- REFERENCE DRAWINGS**
- General Notes - T1
 - Abutment Details - S11 & S12
 - Pier Column & Pile Cap - S17 & S19
 - Deck Section & Details - S21
 - Concrete Parapet - T4
 - Aluminum Railing - T5
 - Prestressed Girder - T3
 - Pile Load Test Details - T2
 - Prestressed Concrete Piles - T7 & T8
 - See Geometric & Profile Drawings for horizontal & vertical controls.
 - See Civil Drawings for grading & drainage requirements not shown.

- LEGEND**
- (E) Expansion Bearing
(H) Hinge Bearing

SSFM ENGINEERS INC.
501 Sumner St., #502
Honolulu, Hawaii 96817

DWIGHT MAMORU OKAWA
REGISTERED PROFESSIONAL ENGINEER
No. 4545-S
HAWAII, U.S.A.

This work was prepared by me or under my supervision.
Dwight M. Okawa

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

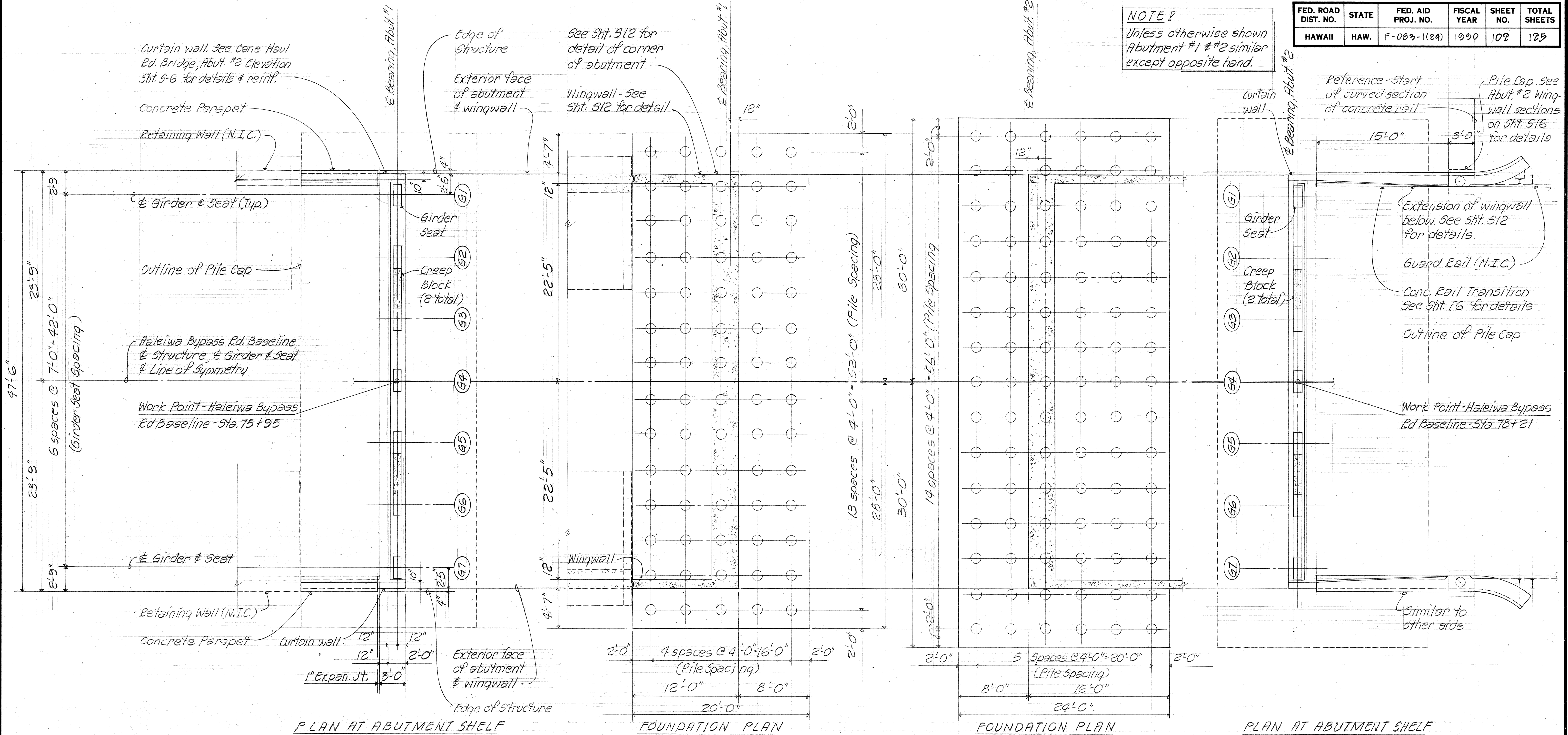
**ANAHULU STREAM BRIDGE
FOUNDATION & LAYOUT PLANS &
LONGIT. & TYP. BRIDGE SECTIONS**

KAMEHAMEHA HIGHWAY - HELEMANO/WAIALUA
JUNCTION TO HALEIWA BEACH PARK
(STRUCTURES)
FAP NO. F-083-1(24)

"AS BUILT"

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	F-083-1(24)	1990	102	125

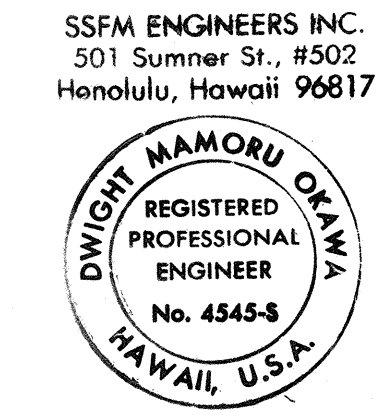
NOTE:
Unless otherwise shown
Abutment #1 & #2 similar
except opposite hand.



ABUTMENT #1
Scale: 3/16" = 1'-0"

ABUTMENT #2
Scale: 3/16" = 1'-0"

- REFERENCE DRAWINGS
1. Abutment Shelf Details --- 518
 2. Abutment Foundation & Wall Sections --- 512
 3. Wingwall Sections --- 512
 4. Prestressed Concrete Piles --- 77 & 78



This work was prepared by
me or under my supervision.
Dwight M. Okawa

11-20-90	Added Abut. curtain wall
DATE	REVISION

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

**ANAHULU STREAM BRIDGE
ABUT. NO. 1 & 2 FOUNDATION
& ABUT. SHELF PLANS**

KAMEHAMEHA HIGHWAY - HELEMANO/WAIALUA
JUNCTION TO HALEIWA BEACH PARK
(STRUCTURES)
FAP NO. F-083-1(24)

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

