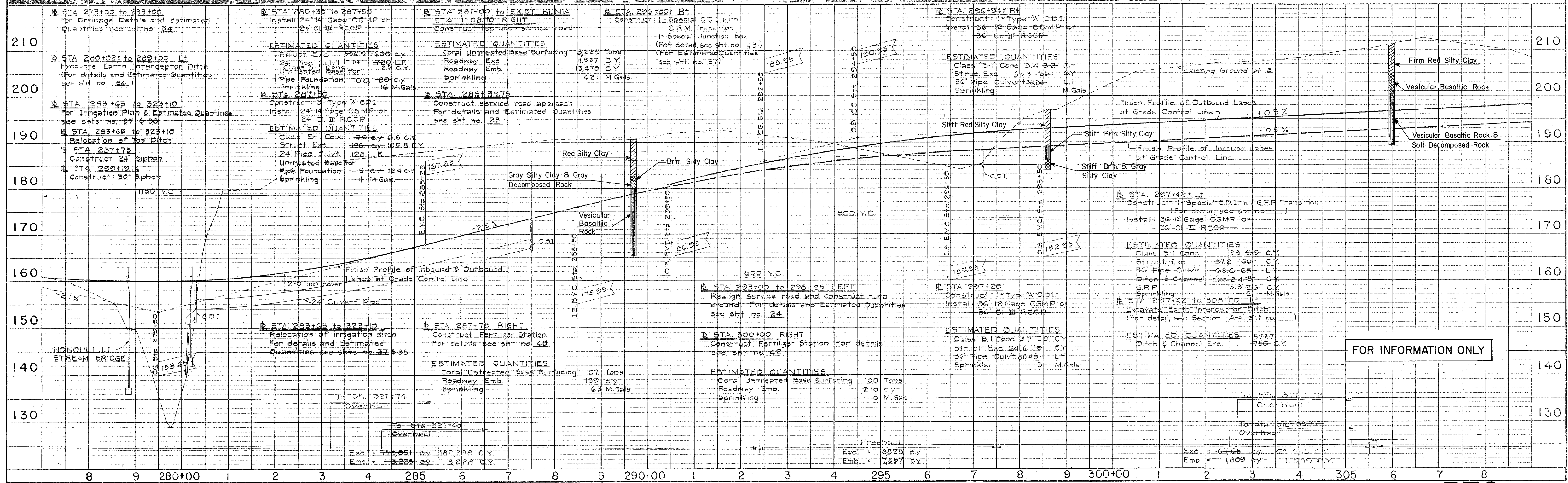


FED. AID DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAWAII	1-111-1(19)	1998	376	378

PLAN	DATE	BY
SURVEYED		
NOTE BOOK		
ALIGNMENT CHECKED		
RT. OF WAY CHECKED		
NO.		

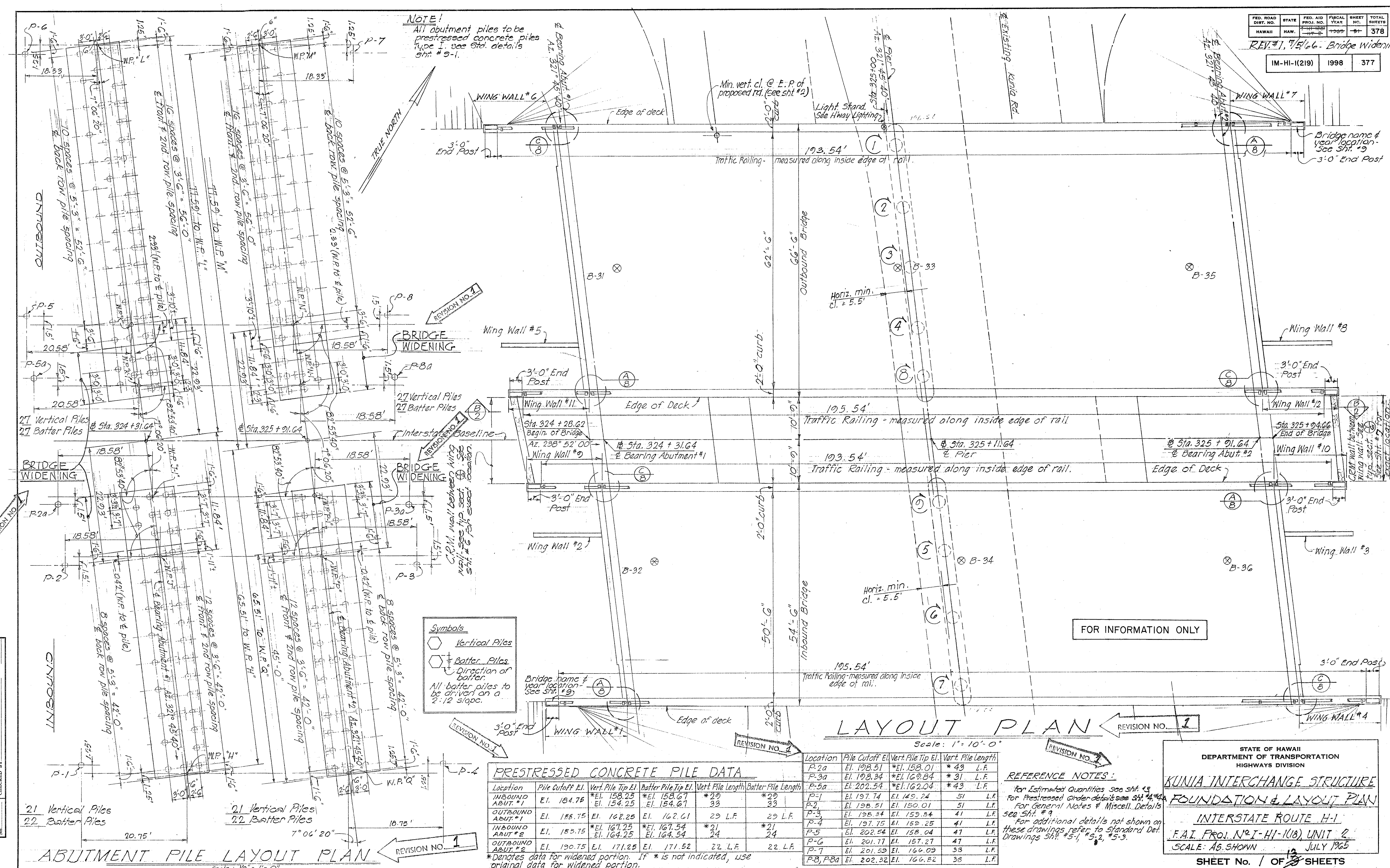


PROFILE	DATE	BY
SURVEYED		
NOTE BOOK		
GRADES CHECKED		
STRUCTURE (GUTTER) CHVD		
NO.		



FOR INFORMATION ONLY

NOTE!
All abutment piles to be prestressed concrete piles type I, see Std. details Sht. #5-1.



Symbols

○ Vertical Piles

○+○ Batter Piles

Direction of batter

All batter piles to be driven on a 2:12 slope.

PRESTRESSED CONCRETE PILE DATA					
Location	Pile Cutoff El.	Vert. Pile Tip El.	Batter Pile Tip El.	Vert. Pile Length	Batter Pile Length
INBOUND ABUT. #1	El. 184.75	*El. 158.25	*El. 158.67	*29	*29
OUTBOUND ABUT. #1	El. 188.15	El. 162.25	El. 162.61	29 L.F.	29 L.F.
INBOUND ABUT. #2	El. 185.75	*El. 167.25	*El. 167.54	*21	*21
OUTBOUND ABUT. #2	El. 190.75	El. 171.25	El. 171.52	22 L.F.	22 L.F.

Location	Pile Cutoff El.	Vert. Pile Tip El.	Vert. Pile Length
P-2a	El. 198.51	*El. 158.01	*43 L.F.
P-3a	El. 198.34	*El. 169.84	*31 L.F.
P-5a	El. 202.54	*El. 162.04	*43 L.F.
P-1	El. 197.74	El. 149.24	51 L.F.
P-2	El. 198.51	El. 150.01	51 L.F.
P-3	El. 198.34	El. 159.84	41 L.F.
P-4	El. 197.75	El. 159.25	41 L.F.
P-5	El. 202.54	El. 158.04	41 L.F.
P-6	El. 201.77	El. 157.27	41 L.F.
P-7	El. 201.59	El. 166.09	33 L.F.
P-8, P-8a	El. 202.32	El. 166.82	33 L.F.

REFERENCE NOTES:

For Estimated Quantities See Sht. #9

For Prestressed Girder details see Sht. #4, #4a

For General Notes & Miscell. Details see Sht. #9

For additional details not shown on these drawings refer to Standard Det. Drawings Sht. #5-1, #5-2, #5-3.

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

**KUNIA INTERCHANGE STRUCTURE
FOUNDATION & LAYOUT PLAN**

INTERSTATE ROUTE H-1

F.A.I. PROJ. N° I-HI-1(18) UNIT 2

SCALE: AS SHOWN

JULY 1965

SHEET No. 1 OF 3 SHEETS

DATE: _____

DESIGNED BY: _____

CHECKED BY: _____

NOTED BY: _____

ORIGINAL PLAN: _____

NOTE BOOK: _____

NO. _____

REV. #1 - 7/5/66 - DETECTED DIAGRAM

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW	11-111	1966	378	378

GENERAL NOTES

IM-HI-1(219) 1998 378

Specifications: AASHTO

Standard specifications for Highway Bridges (8th Edition) with subsequent additions and modifications.

Design Stresses: R.C. Beams & Slabs:

See AASHTO specification except as otherwise noted and see Special Provisions.

$$f'_c = 3,000 \text{ psi}$$

$$f_c = 1,200 \text{ psi}$$

$$n = 10$$

$$f_s = 20,000 \text{ psi-tension}$$

Materials:

- All concrete shall be Class A-1 except as otherwise noted on plans. Concrete for prestressed concrete girders see Special Provisions & as noted below.
- Neoprene pads are incidental to prestressed conc. girders and will not be paid for separately.
- See Special Provisions for admixture in concrete.
- All piles to be prestressed concrete piles Type I - see Standard Details sht. #9-1

Construction Methods:

- See Standard Specifications and Special Provisions.
- Except for footings on piles & as otherwise noted all other footings shall be excavated & poured to neat lines. In case of over excavation, space between footing & ground shall be filled with concrete at the Contractor's expense. The fill concrete shall have a minimum quality of Class D-1. Limits of excavation for pile footing, see corresponding details.
- The Contractor shall verify the location of all existing utility lines and notify the respective owners before commencing work of excavation or pile driving.
- All fill behind abutments & wingwalls shall be complete in place before placing superstructure prestressed concrete girders.
- For concrete finish see Special Provisions. Concrete seats & creep blocks to be poured monolithically with pier or abutment sections. Seats shall receive a hard trowel finish, level & true to Elevations.
- Neoprene pad: The neoprene pads shall be secured against displacement by adhesives. The adhesive shall be approved by the Engineer.

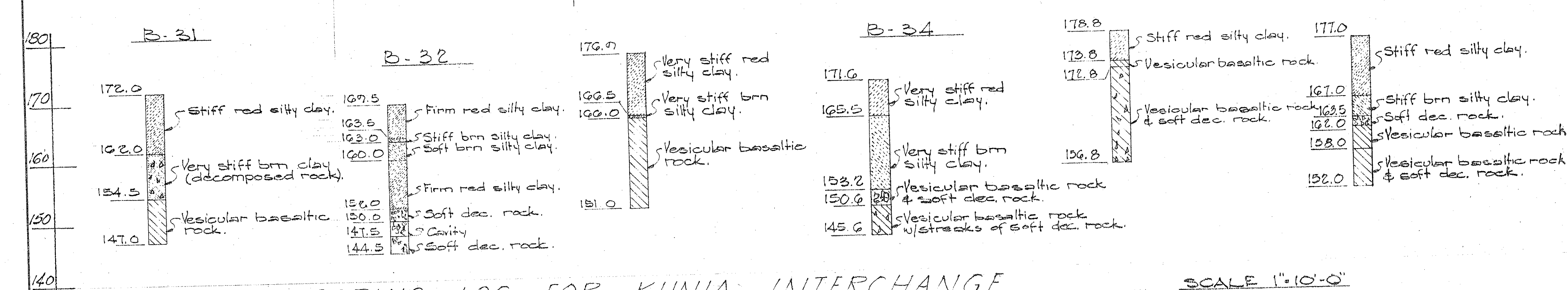
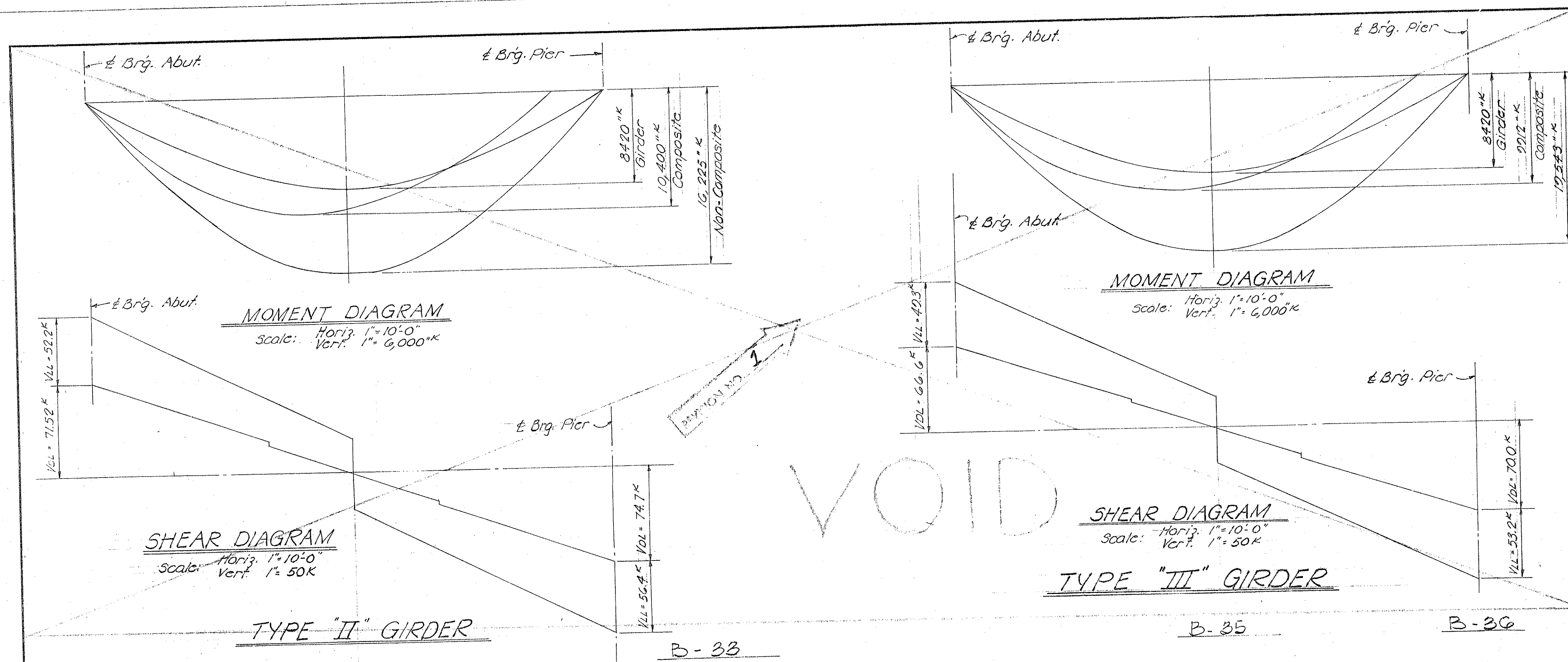
General Notes:

- Symbols
 - (No.) - Denotes column numbers
 - (A) - Alphabet section no. description
 - (10) - Sheet no. detail is drawn on
 - - Direction in which main reinforcing bars extend
- For additional details & general notes not covered by these drawings, refer to Standard Drawings S-1, S-2, & S-3.

FOR INFORMATION ONLY

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION
KUNIA INTERCHANGE STRUCTURE
MISCELLANEOUS DETAILS
& GENERAL NOTES
INTERSTATE ROUTE H-1
F.A.I. PROJ. N° I-HI-1(18), UNIT 2
SCALE: AS SHOWN 12 JULY 1966
SHEET No. 9 OF 8 SHEETS

378



Design Stresses:

Prestressed Beams

$$f'_c = 5,500 \text{ psi}$$

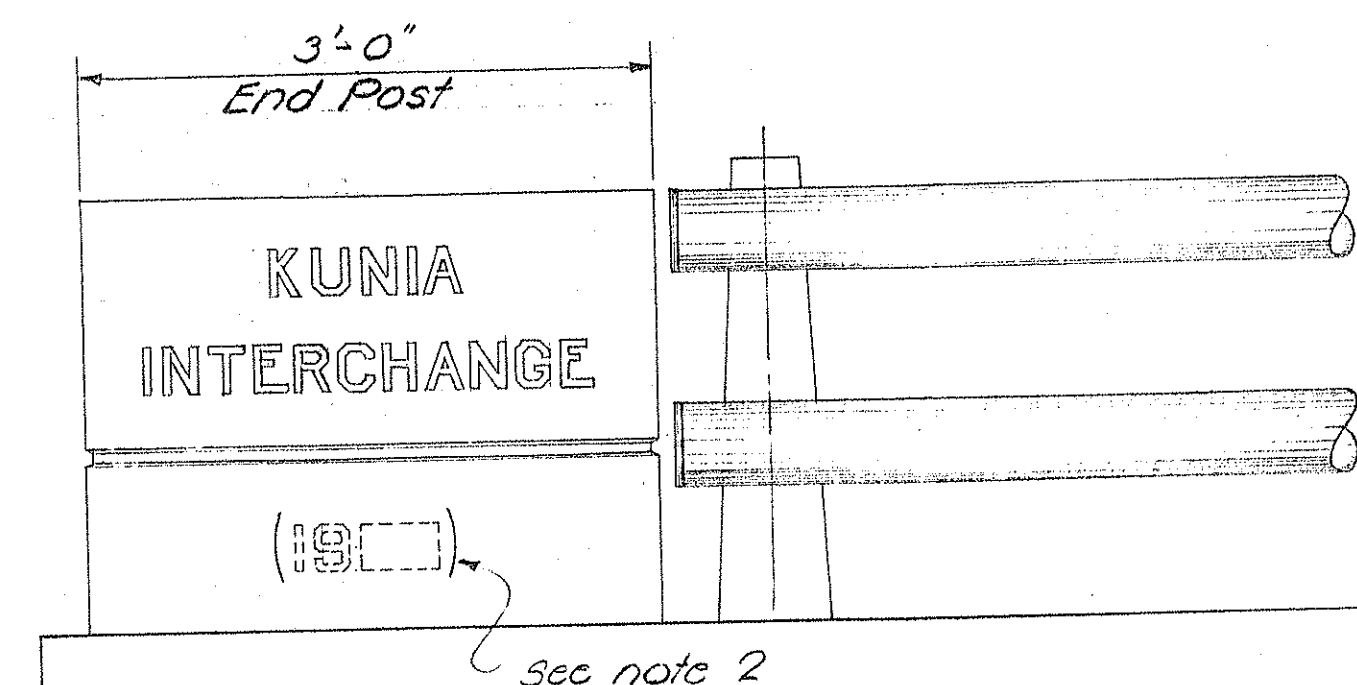
$$f'_c = 4,000 \text{ psi}$$

$$\frac{1}{2} \text{ dia. 7 wire strands}$$

$$\text{Tensioning Load} = 25,200 \text{ lb. per strand}$$

$$\text{Design Load} = 20,160 \text{ lb. per strand}$$

Forms must be removed and the beam inspected before the strands are cut.



- NOTE:**
- Place name of structure as shown. For location, see Layout Plan.
 - Year shown will be year structure is completed.
 - Letter size & detail - see Standard Letter drawings.

Typical Bridge Name & Year Location at End Post

Scale: 1"=1'-0"

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