

Hand-drawn cross-section diagram of a road project for Wai'ale'ale Avenue. The diagram shows a 60-foot wide section with a central 24-foot normal median strip. On either side of the median are 24-foot wide lanes for inbound and outbound traffic. The diagram details existing pavement (2 1/2 inch A.C. Pav't, 1 inch Mix No. IV, 1 1/2 inch Mix No. III), existing 8-inch R.C.C. Pav't, and existing 8-inch untreated base. It also shows proposed new pavement (2 1/2 inch A.C. Pav't, 1 inch Mix No. IV, 1 1/2 inch Mix No. III) and a new 8-inch untreated base. The diagram includes dimensions for various sections (10', 2', 12', 24', 12', 24', 12', 10', 2') and labels for 'R/W Line' and 'Baseline'. A note at the bottom states: 'See Cross-Section Sheets No. 168 to 170 inclusive and also Item "I" of CONSTRUCTION - PHASE I in Article 8.13, "Order of Work" in the Amendment Section of Special Provisions.'

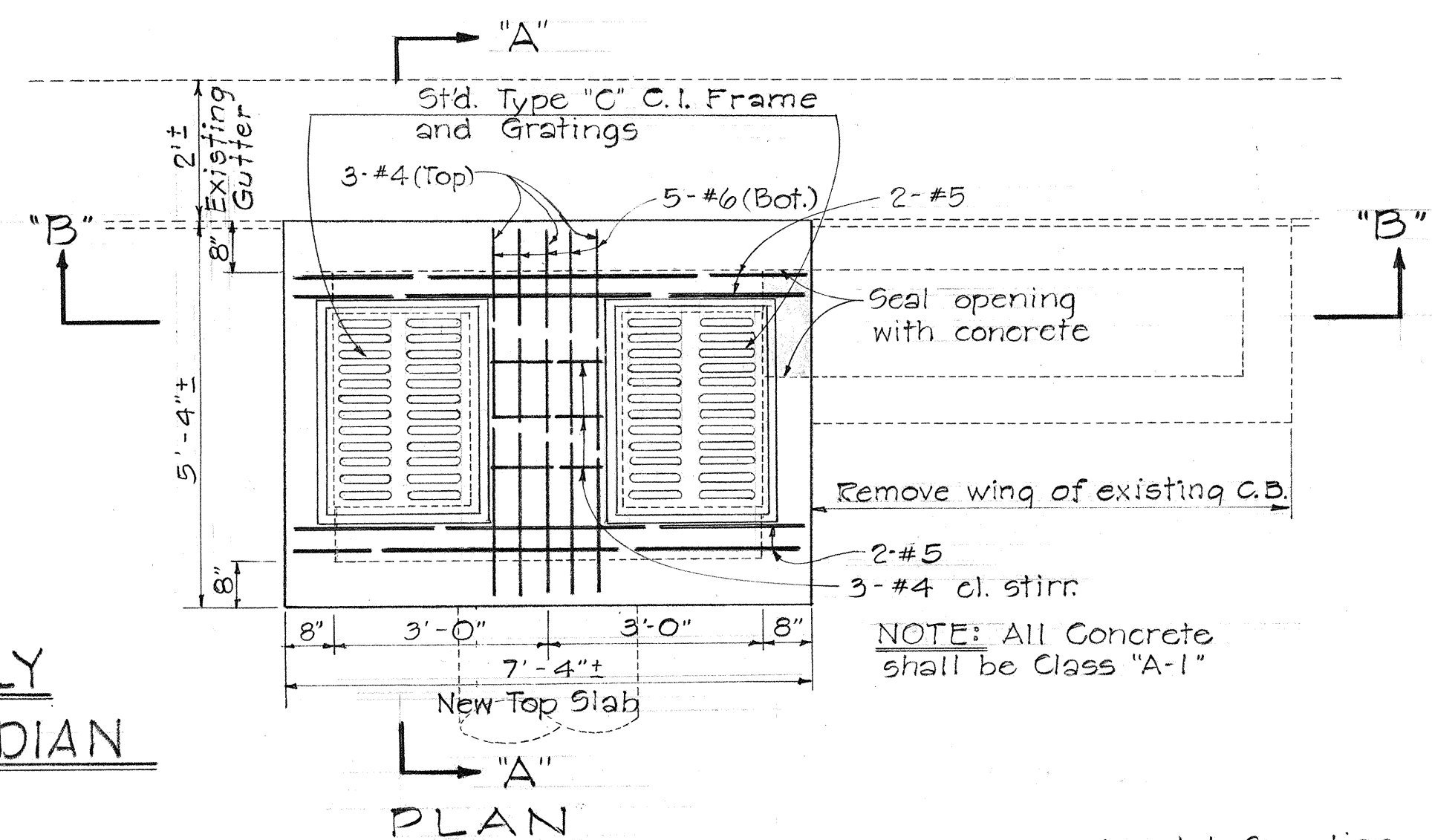
BETWEEN HUNAKAI ST. AND KEALAOLU AVE. @ STA. 148+00 TO 162+20⁺

The diagram illustrates a cross-section of a manhole repair. The existing structure consists of a concrete base and a brick-lined upper section. The repair is shown as a new structure built on top of the existing one. The repair layers, from top to bottom, are:

- 2 1/2" A.C. Pavement**: The top layer of the repair.
- 1" A.C. Mix No. V**: A layer of asphalt concrete below the pavement.
- 1/2" A.C. Mix No. III**: A layer of asphalt concrete below the previous layer.
- 8" Untreated Base**: The base layer of the repair.
- Steel Plate**: A horizontal plate placed over the existing manhole opening, supported by the repair layers.
- Existing Valve**: A valve located within the existing manhole structure, below the steel plate.
- Existing manhole**: The original structure being repaired, shown with dashed lines.
- Remove top portion of existing manhole - See NOTE this sheet**: An instruction indicating that the top part of the existing manhole is to be removed.
- Varies**: A dimension line indicating that the width of the repair varies.
- (Existing median to be temporarily paved)**: A note indicating that the existing median will be temporarily paved.
- See NOTE this sheet**: A reference to a note on the same sheet regarding the steel plate.

Not To Scale

Removing of the top portion of existing manholes and valve boxes and steel plate will not be paid for separately, but shall be considered as incidental to Highway Exc. Steel plate covers to be furnished and placed where the top portion of existing manholes and valve boxes are to be removed, including the removal of plate covers, will not be paid for separately but shall be considered as incidental to the various contract items of work.



PLAN

Std. Type "C" Frame & Gratings

Fin. Grade

4" Dowels
12" o.c.

8'

2'-0"

2'-0"

2'-0"

2'-0"

8'

3-#4

5-#6

3-#4 cl. stirr.

New Conic. Seal
for C.B. Wing

Remove top slab & portion
of existing C.B. Walls.

Top of exist. C.B.

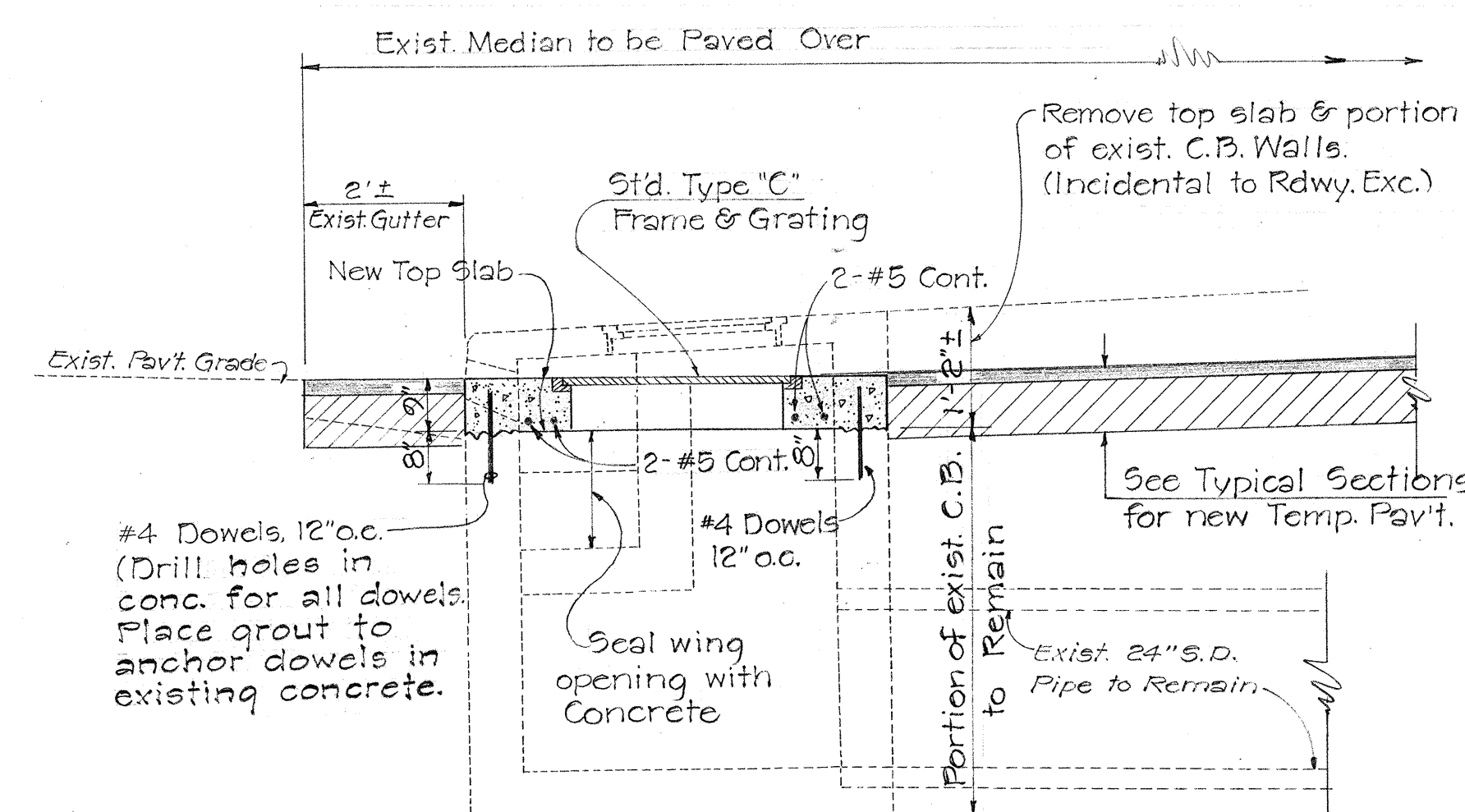
Remove wing of existing C.B.
(Incidental to Roadway Exc.)

#4 Dowels
12" o.c.

SECTION "B-B"

Scale: $\frac{1}{2}" = 1' - 0"$

1. All materials, labor, equipment and tools to be furnished by the Contractor for the reconstruction of catch basins shall be considered as incidental to the item of Class A-1 Concrete, except as otherwise shown. New C.I. Gratings shall be paid for separately under the item of Type "C" Cast Iron Frame and Grating for Reconstructed Catch Basins.
2. The Contractor shall utilize one (1) State owned Type "C" C.I. Frame and Grating (available at Project site at no cost to the Contractor) for the reconstruction of catch basins. The State owned Frame and Grating shall be installed and paid for under Item 02.02, "Installing State-Furnished Type "C" C.I. Frame and Grating for Reconstructed Catch Basins."
3. When the reconstructed catch basins are ready to be removed under "Construction Phase-III," the Contractor shall salvage the four (4) Type "C" C.I. Frame and Gratings and stockpile within the project site as directed by the Engineer. Incidental to "Roadway Exc."

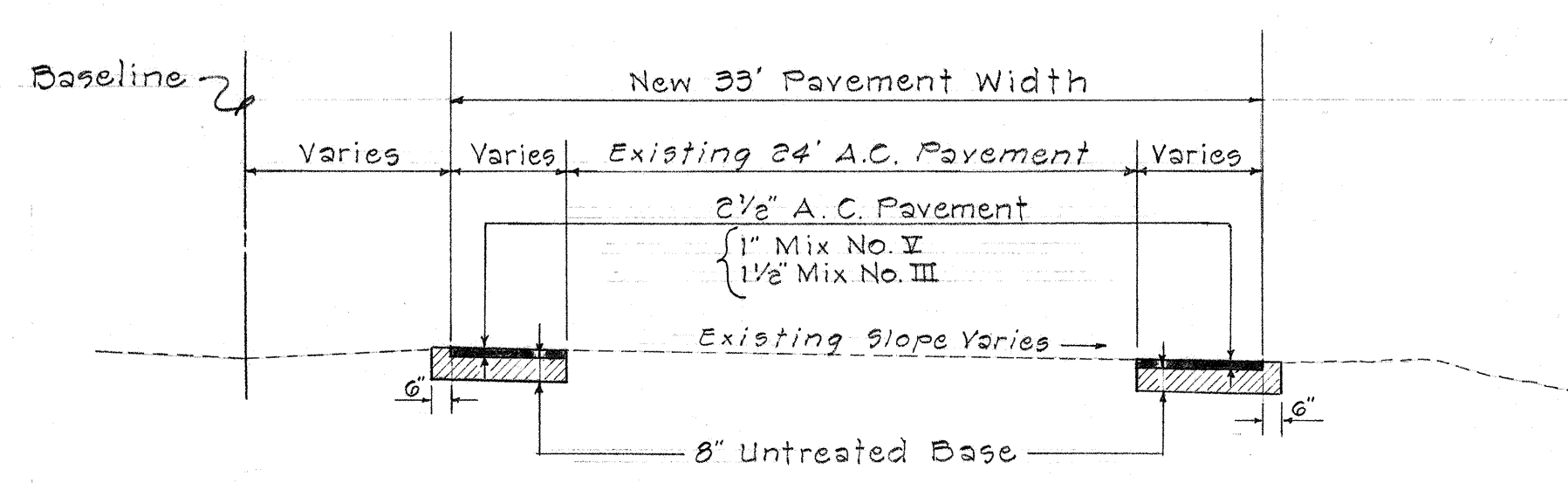


SECTION "A-A"

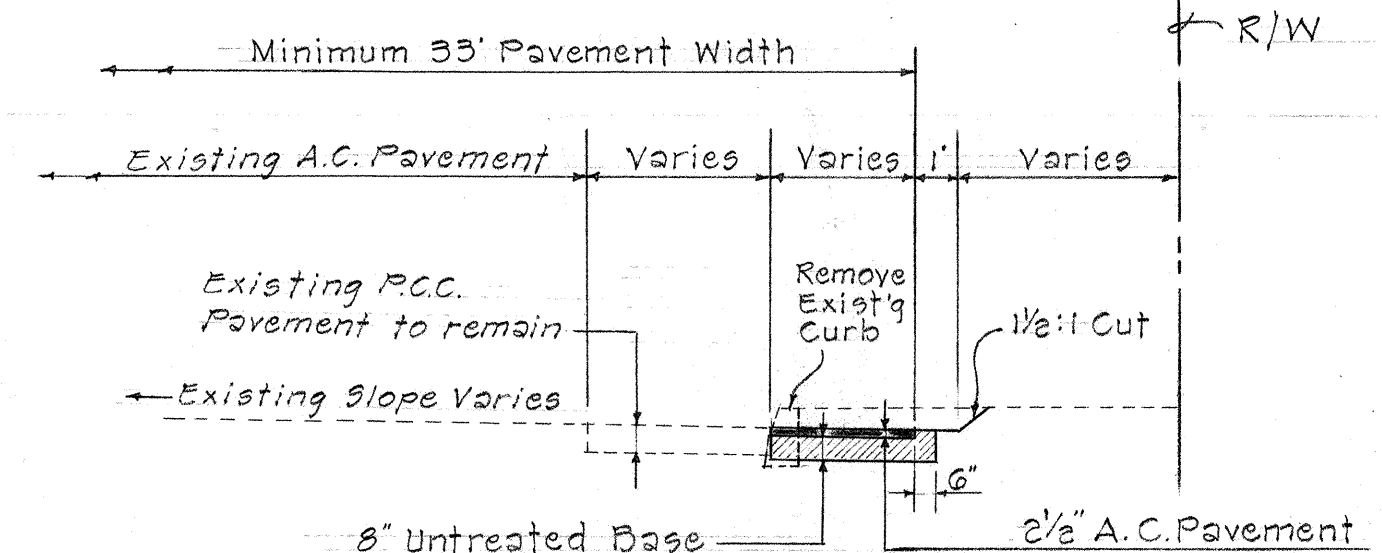
Scale: 1/4" = 1' - 0" Date: April 1966

ORIGINAL PLAN	SURVEY PLOTTED BY.....	DATE.....
NOTE BOOK	DRAWN BY.....	"
	TRACED BY.....	"
	DESIGNED BY.....	"
	QUANTITIES BY.....	"
No.	CHECKED BY.....	"

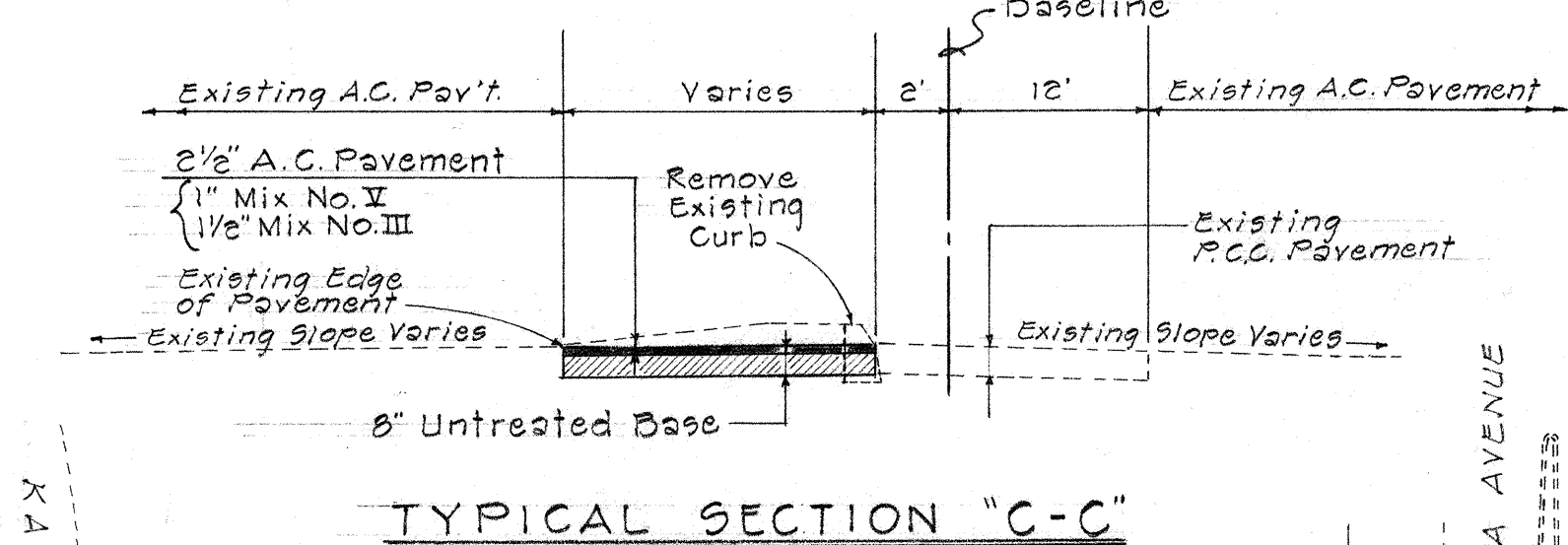
FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	1-11-1(6)	1966	20	235



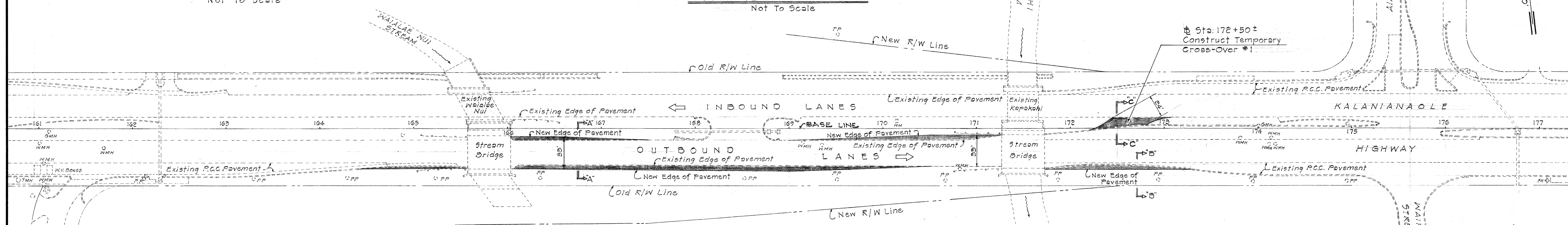
TYPICAL SECTION "A-A"
Not To Scale



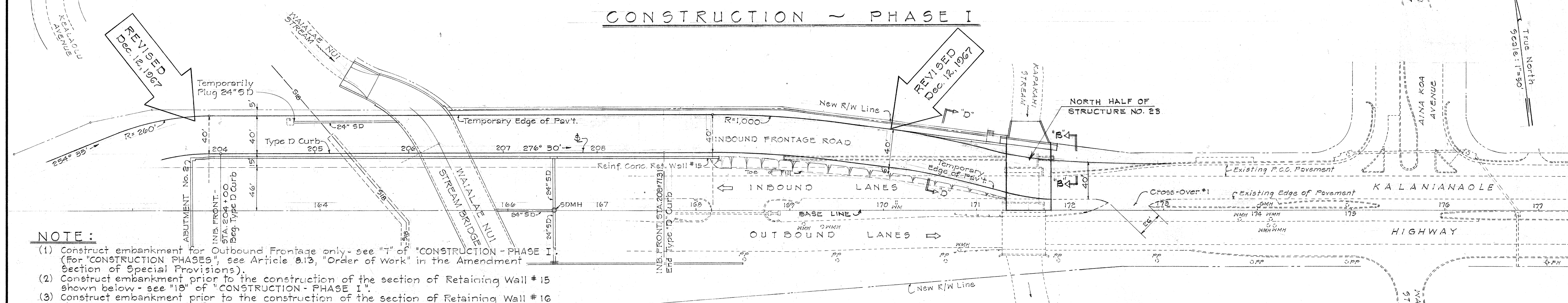
TYPICAL SECTION "B-B"
Not To Scale



TYPICAL SECTION "C-C"
Not To Scale



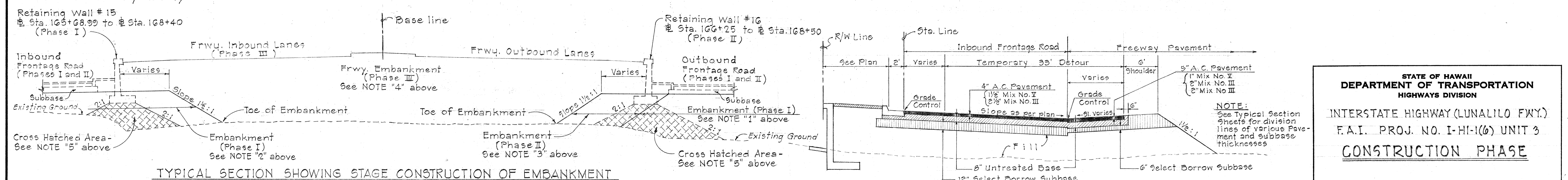
CONSTRUCTION ~ PHASE I



NOTE:

- (1) Construct embankment for Outbound Frontage only - see "1" of "CONSTRUCTION - PHASE I". (For "CONSTRUCTION PHASES", see Article 6.13, "Order of Work" in the Amendment Section of Special Provisions).
- (2) Construct embankment prior to the construction of the section of Retaining Wall #15 shown below - see "18" of "CONSTRUCTION - PHASE I".
- (3) Construct embankment prior to the construction of the section of Retaining Wall #16 shown below - see "1" of "CONSTRUCTION - PHASE II".
- (4) Construct embankment in Freeway Section - see "2" of "CONSTRUCTION - PHASE III". (For (1), (2) and (3) above, see Cross-Sections on Plan Sheets No. 172 and No. 173).
- (5) The relative compaction of the cross hatched area shall not be less than 95% of the maximum dry density.

CONSTRUCTION ~ PHASE II



TYPICAL SECTION SHOWING STAGE CONSTRUCTION OF EMBANKMENT
FOR INBOUND AND OUTBOUND FRONTAGES AND RETAINING WALLS #15 AND #16

TYPICAL SECTION "D-D"
Not To Scale

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

INTERSTATE HIGHWAY (LUNALILO FWY.)
F.A.I. PROJ. NO. I-HI-1(6) UNIT 3
CONSTRUCTION PHASE

Scale: As Noted July 1966
SHEET No. 2 OF 2 SHEETS

DATE	BY
DESIGNED BY	
CHECKED BY	
NOTED BY	
ORIGINAL PLAN	
NOTE BOOK	
NO.	