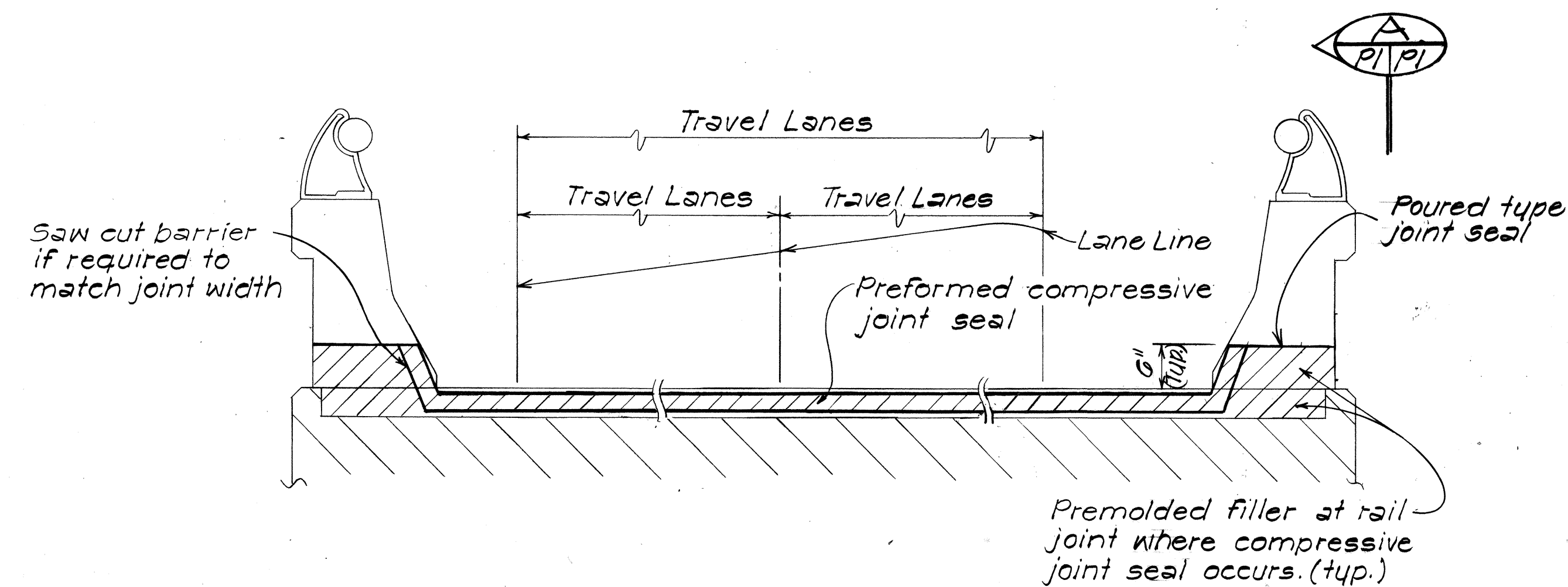
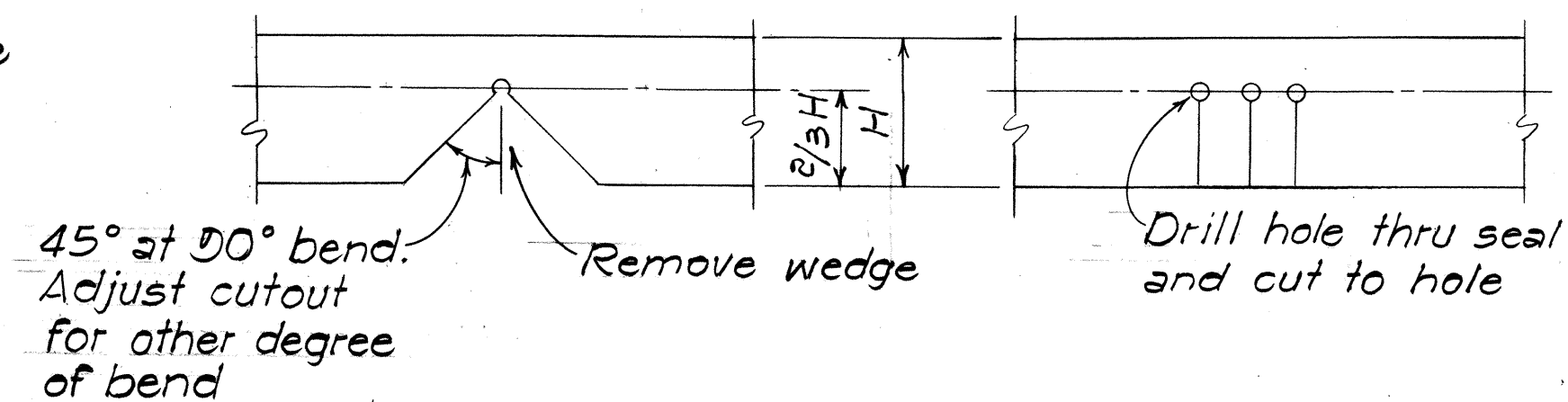


FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	12-H1-1(103)	1986	32	62



TYPICAL SECTION AT JOINT SEAL
Scale: 3/4" = 1'-0"



DETAIL OF SEAL AT BEND
Not to Scale

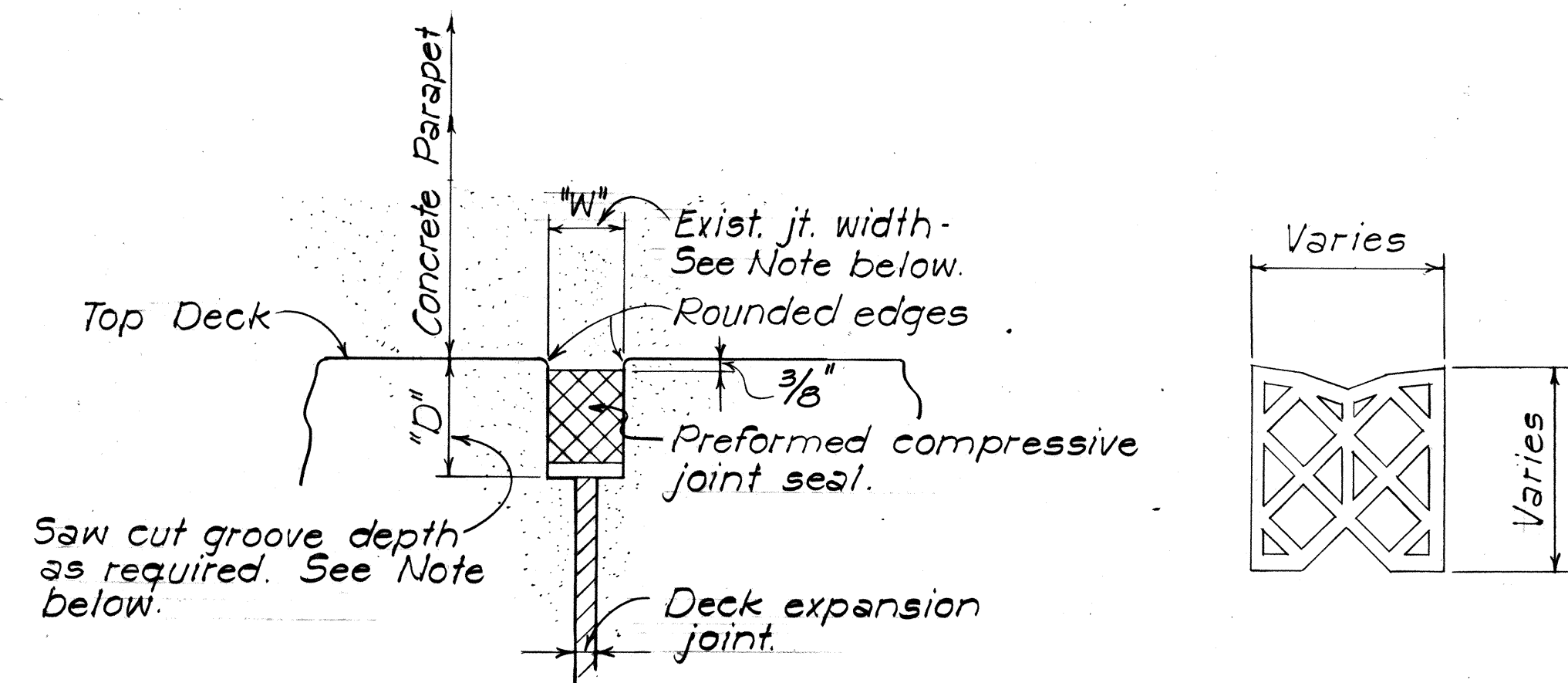
NOTES:

1. Maintenance of Traffic and Traffic Control-See Subsection 104.04 of the Standard Specifications and Section 645 of the Special Provisions.
2. Saw cutting of concrete & the poured type joint seal shall be incidental to the preformed joint seal & will not be paid for

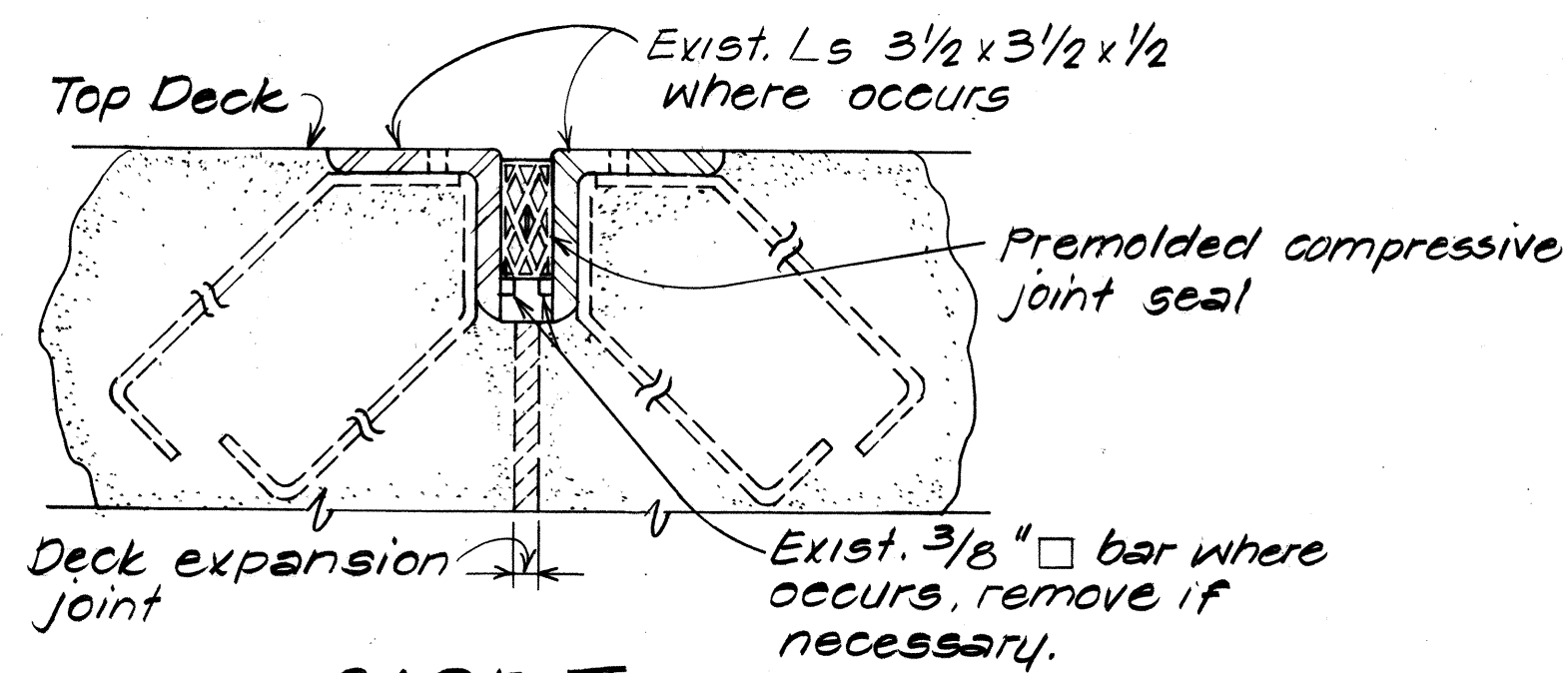
SYMBOLS

= Denotes repair work of existing bridge structure.

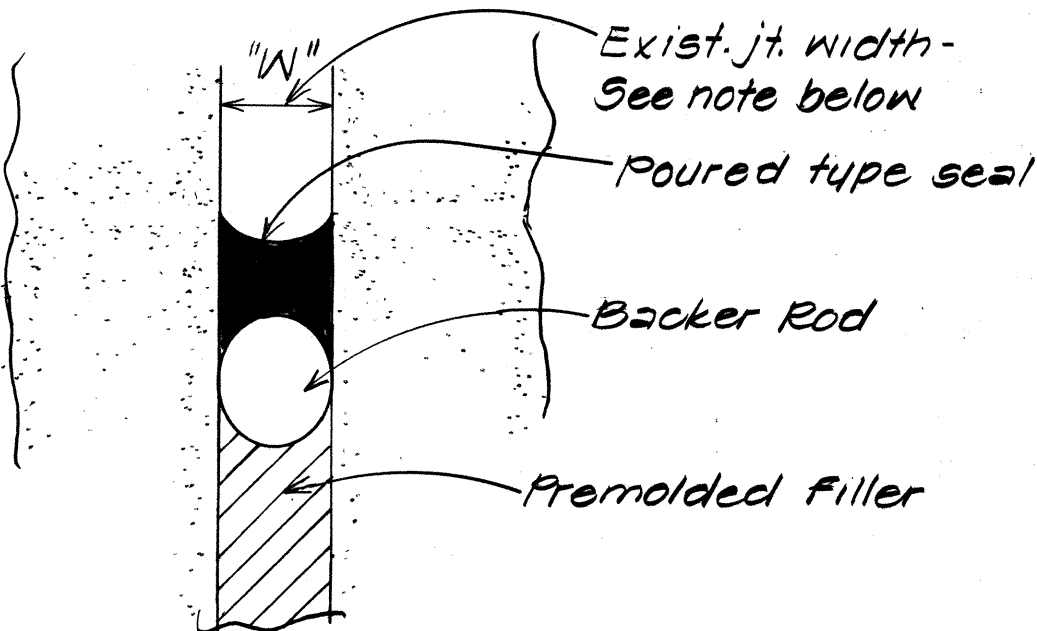
ESTIMATED QUANTITIES			
ITEM No.	ITEM	UNIT	QUANTITY
503.6010	Installing preformed joint seals for Pearl City Viaduct (Inbound & Outbound)	Lump Sum	4,400 Lin.Ft.
503.6011	Installing preformed joint seals for Waimalu Viaduct (Inbound & Outbound)	Lump Sum	570 Lin.Ft.



CASE I SEAL DETAIL



CASE II



SECTION @ CONCRETE RAIL

REPLACEMENT OF EXISTING EXPANSION JOINT SEAL DETAILS

Not to Scale

NOTE:

"W"- Existing joint width. This width shall also be the installation width of the new preformed joint seal. The new preformed joint seal size shall be determined by this installation width as recommended by the manufacturer and shall be approved by the Engineer. This width "W" shall be uniform through-out & shall be saw cut, if required, as approved by the Engineer.

"D"- Groove depth as recommended by the manufacturer. This depth shall be obtained by saw cutting, as required.

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

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

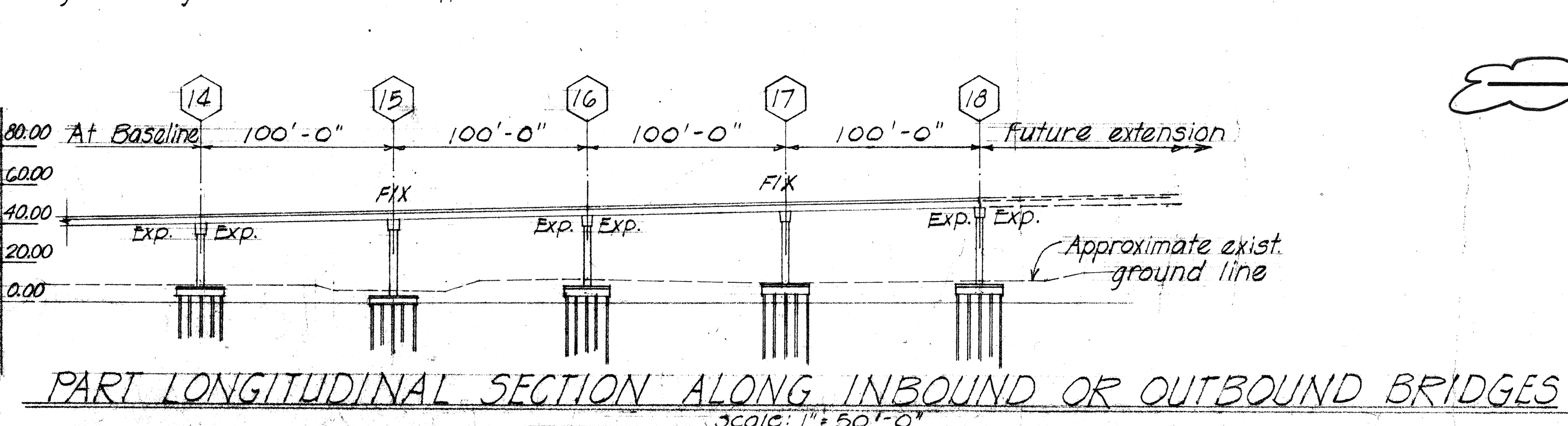
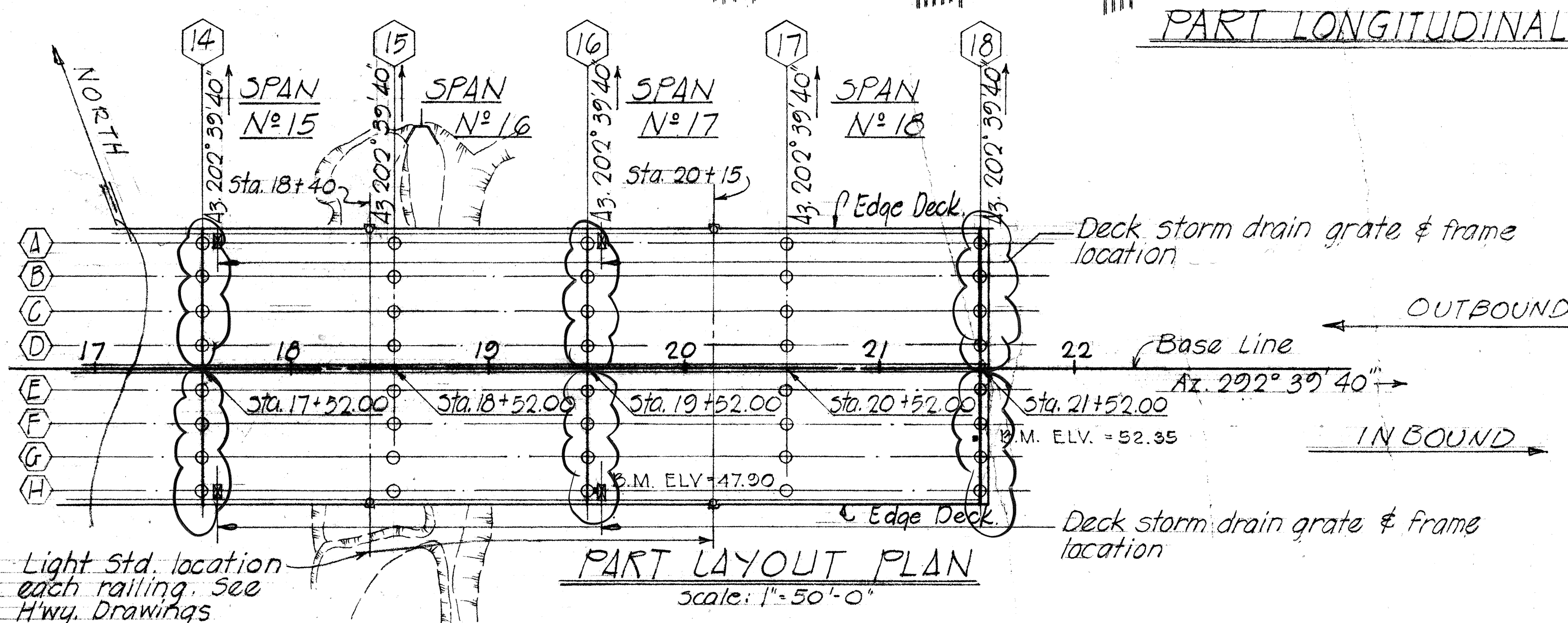
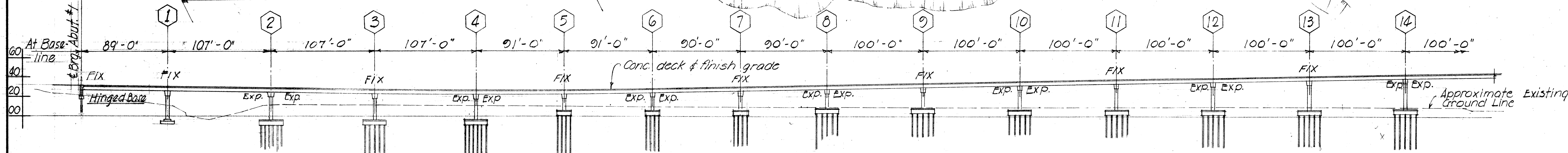
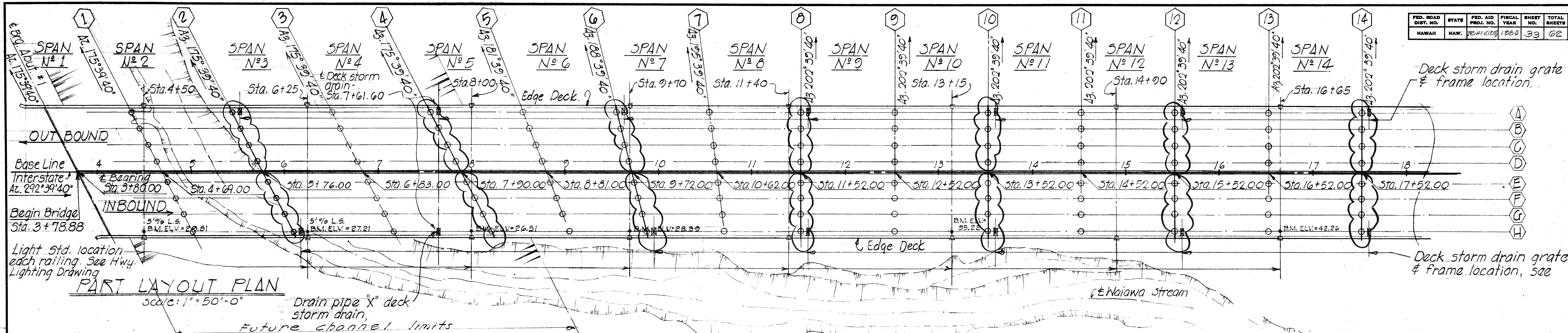
PEARL CITY & WAIMALU VIADUCT

REPLACEMENT OF BRIDGE DECK JOINT
SEALS GENERAL NOTES & SEAL DETAILS

INTERSTATE ROUTE H-1
PROJ. NO. 12-H1-1(103)

Scale: As Noted Date: Sept., 1985

SHEET No. P1 OF 6 SHEETS



DESIGN SPECIFICATIONS: AASHTO
Standard Specifications for Highway Bridges (8th Edition) with subsequent additions and modifications.

DESIGN LOADS: HS-20-44 or Interstate Loading.

DESIGN STRESSES:

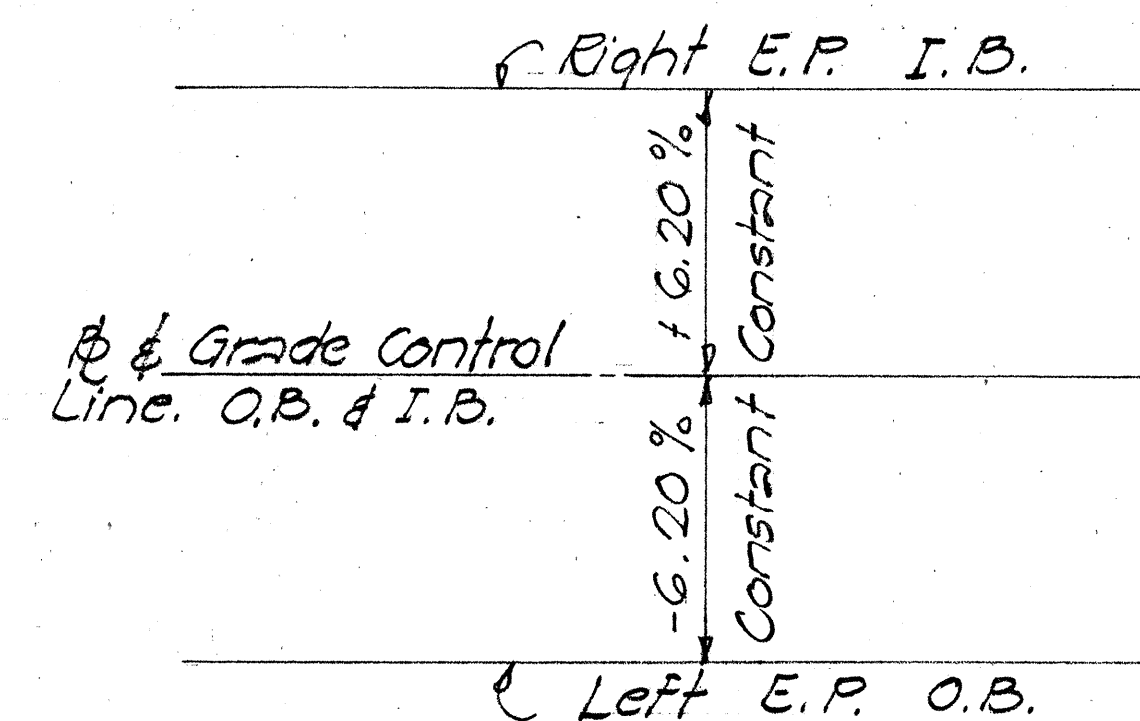
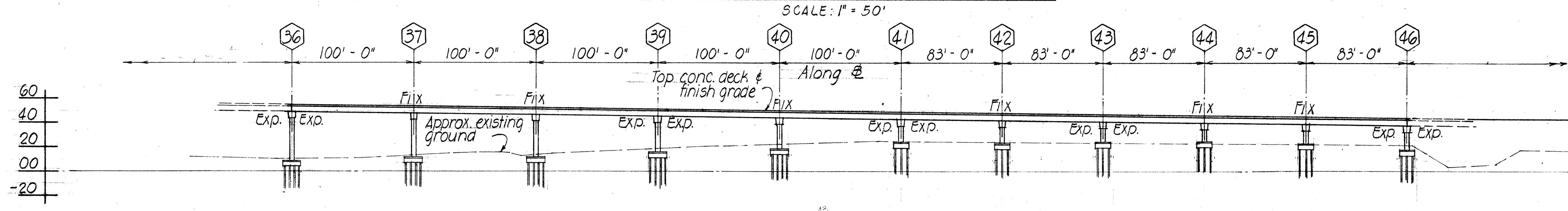
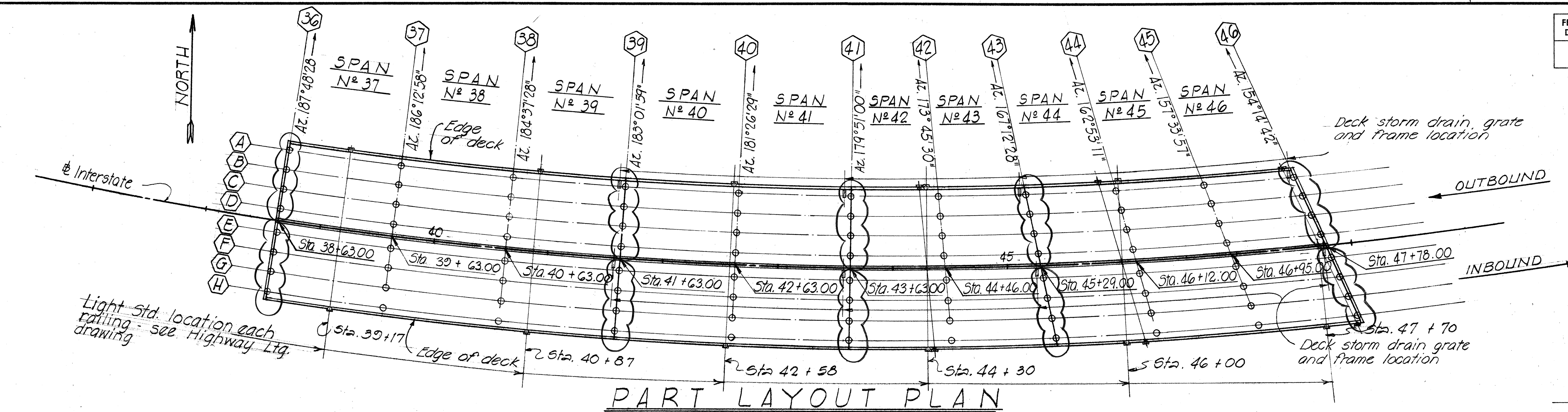
- R.C. Beams & Slabs
See AASHTO specifications except as otherwise noted and see special provisions.
- Prestressed Girders

(Class A-1)	(Class E-1)
$f'_c = 3,000$ psi	$f'_c = 4,500$ psi
$f_c = 1,200$ psi	$f_c = 1,800$ psi
$n = 10$	$n = 8$
$f_s = 20,000$ psi tension	
- Pile capacity - 32 Tons.

NOTE:
Remove existing seal, prepare concrete surface, saw cut if required, and install new preformed joint seal.
See details on Sht. P1

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION
PEARL CITY VIADUCT
LAYOUT PLAN
Sta. 3 + 78.88 to Sta. 21 + 52.00
INTERSTATE ROUTE H-1
Proj. No. IR-H1-1(103)
Scale: As Noted Date: Sept, 1985
SHEET No. P2 OF 6 SHEETS

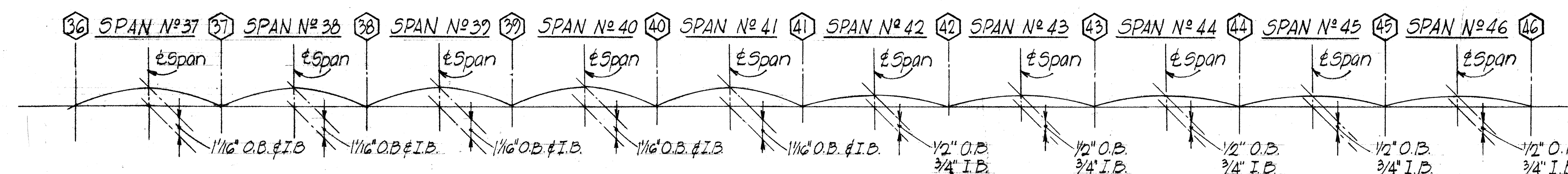
FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	12-H-1(103)	1986	35	62



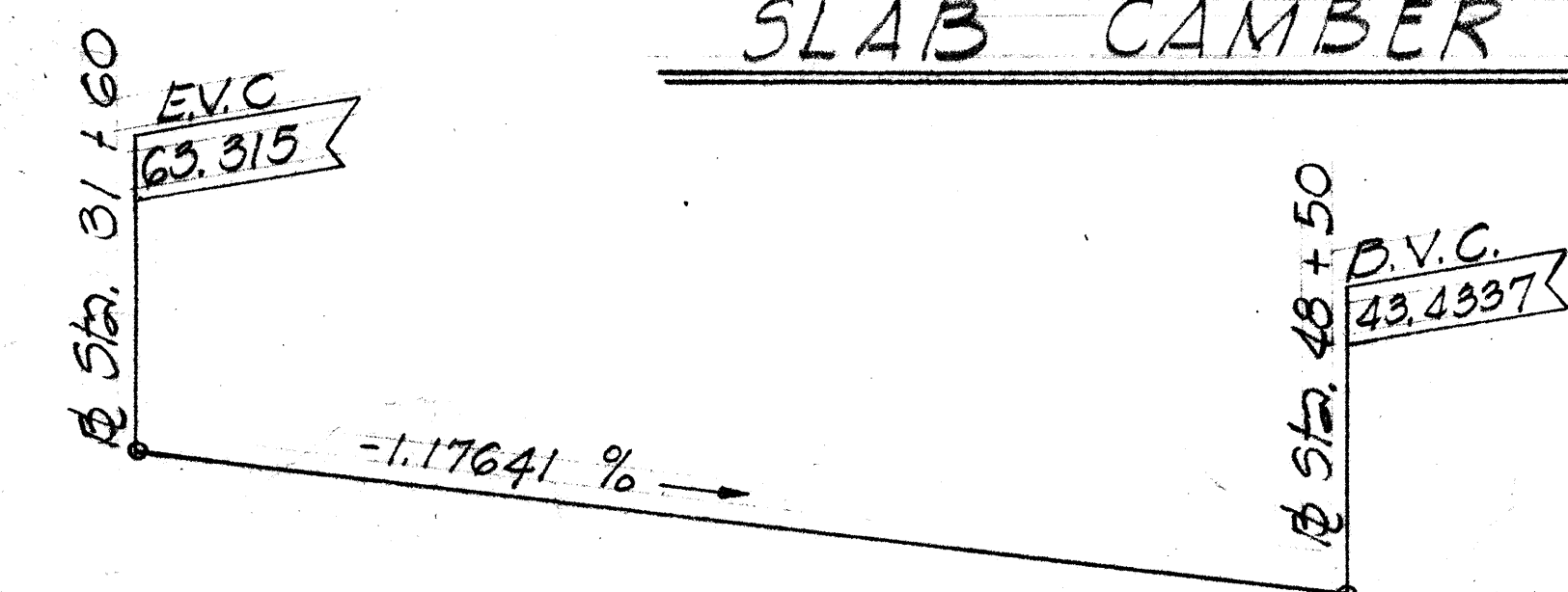
GENERAL NOTES

- DESIGN SPECIFICATIONS:** AASHTO Standard Specifications for Highway Bridges (8th Edition) with subsequent additions and modifications.
- DESIGN LOADS:** HS-20-44 or Interstate Loading.
- DESIGN STRESSES:**
- R.C. Beams & Slabs - See AASHTO specifications & Special Provisions except as otherwise noted.

	(Class A-1)	(Class E-1)
f'_c	3,000 psi	4,500 psi
f'_t	1,200 psi	1,800 psi
n	10	8
f_s	20,000 psi tension	
 - Prestressed Girders - $f'_c = 5,500$ psi, $f'_t = 4,000$ psi, $\frac{1}{2}$ " dia. 7 wire strands, tensioning load = 25,200 lbs per strand, design load = 20,160 lbs per strand. Forms must be removed and the beams inspected before the strands are cut.
 - Pile Capacity: 45 tons

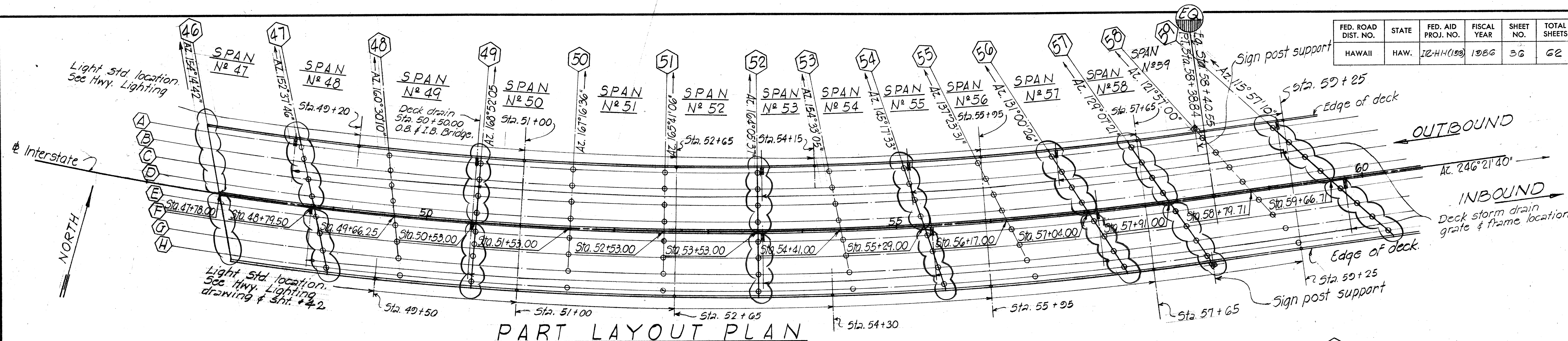


NOTE:
Remove existing seal, prepare concrete surface, saw cut if required, and install new preformed joint seal. See details on Sht. P1.



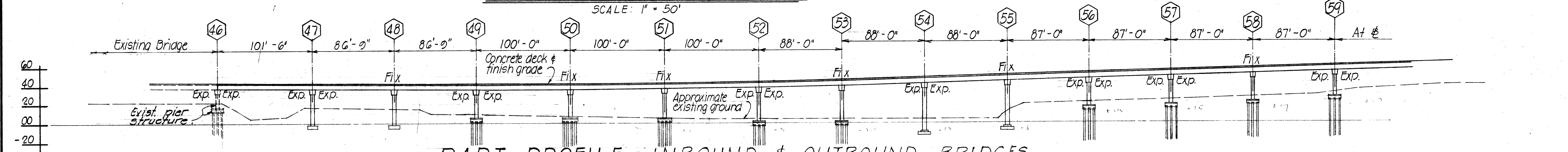
STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION
PEARL CITY VIADUCT
LAYOUT PLAN
Sta. 38+63.00 to Sta. 47+78.00
INTERSTATE ROUTE H-1
Proj. No. 12-H-1(103)
Scale: As Noted Date: Sept., 1985
SHEET No. P4 OF 6 SHEETS

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	12-H-1(193)	1986	36	62



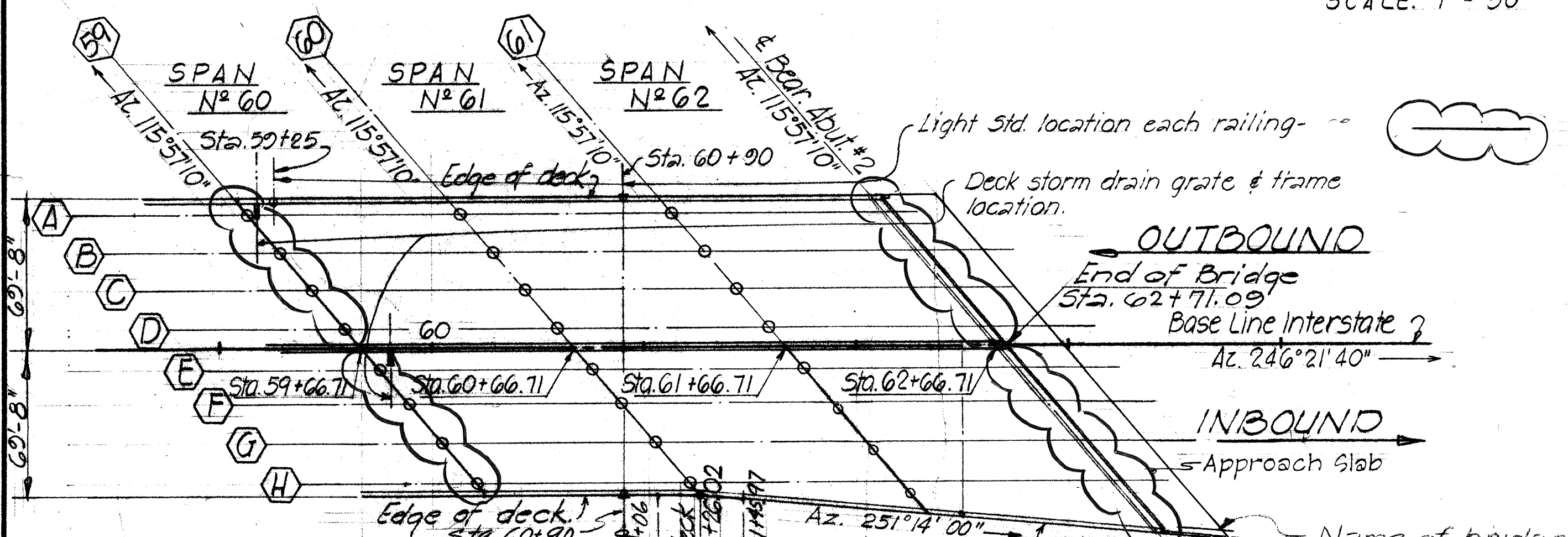
PART LAYOUT PLAN

SCALE: 1" = 50'



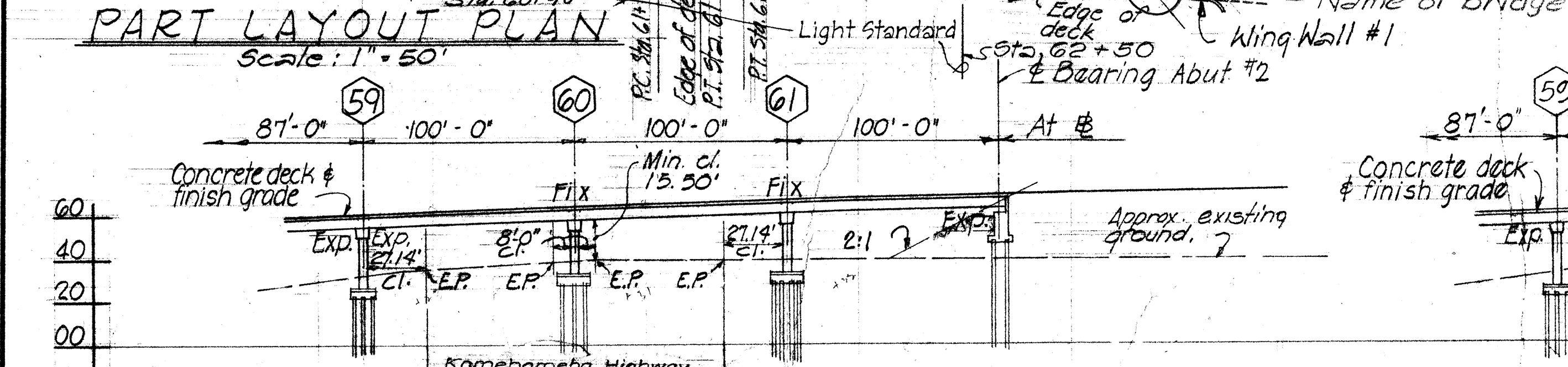
PART PROFILE - INBOUND & OUTBOUND BRIDGES

SCALE: 1" = 50'



PART LAYOUT PLAN

Scale: 1" = 50'



PART PROFILE - INBOUND BRIDGE

SCALE: 1" = 50'

NOTE:
Remove existing seal, prepare concrete surface, saw out if required, and install preformed joint seal.
See details on Sht. P1

DESIGN SPECIFICATIONS: AASHTO
Standard Specifications for Highway Bridges (9th Edition) with subsequent additions and modifications.

DESIGN LOADS: HS-20-44 OR INTERSTATE LOADING

DESIGN STRESSES:
1. R.C. Beams & Slabs - See AASHTO Specifications and Special Provisions except as otherwise noted.

CLASS A-1	CLASS E-1
$f'_c = 3,000$ psi	4,500 psi
$f'_t = 1,200$ psi	1,800 psi
$n = 10$	8
$f_s = 20,000$ psi tension	

2. Prestressed Girders -
 $f'_c = 5,500$ psi
 $f'_t = 4,000$ psi
Design load = 20,160 lbs. per strand.
Forms must be removed and the beams inspected before the strands are cut.

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

PEARL CITY VIADUCT

LAYOUT PLAN

Sta. 47+78.00 TO Sta. 62+71.09

INTERSTATE ROUTE H-1
Proj. No. IR-H-1(193)
SCALE AS NOTED Date, Sept. 1985
SHEET No. P5 OF 6 SHEETS

