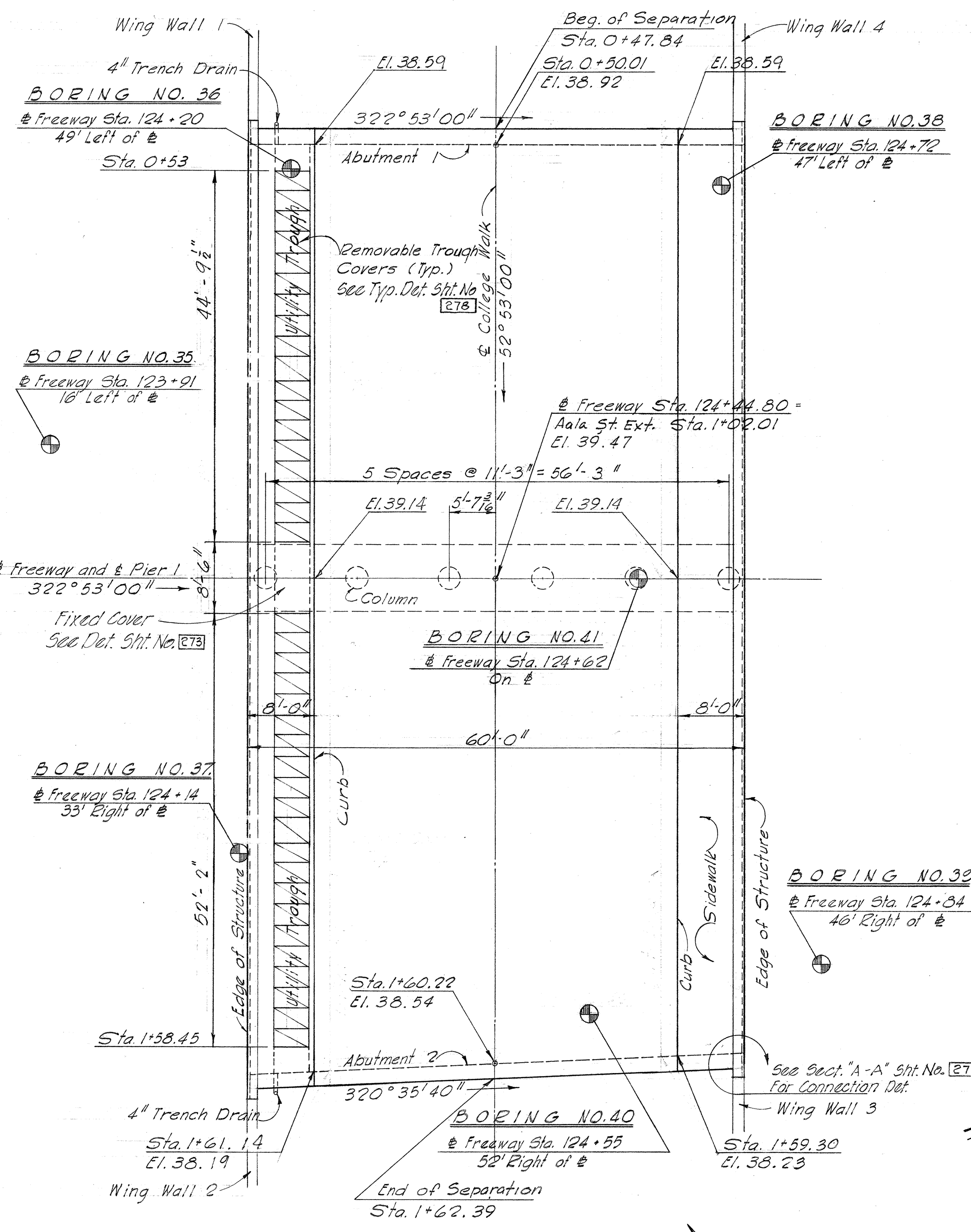
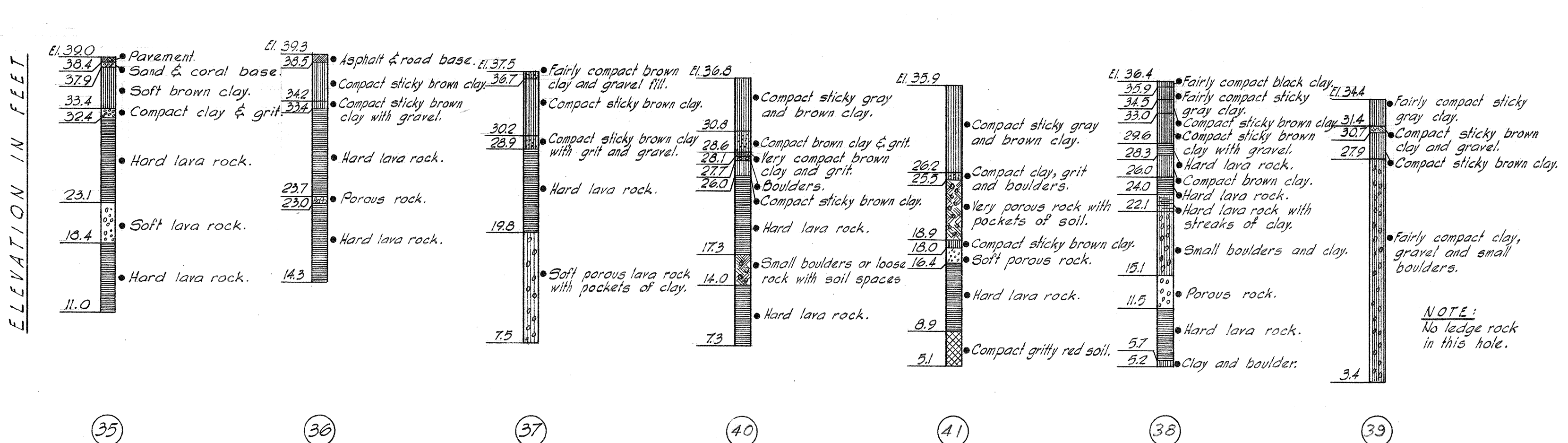


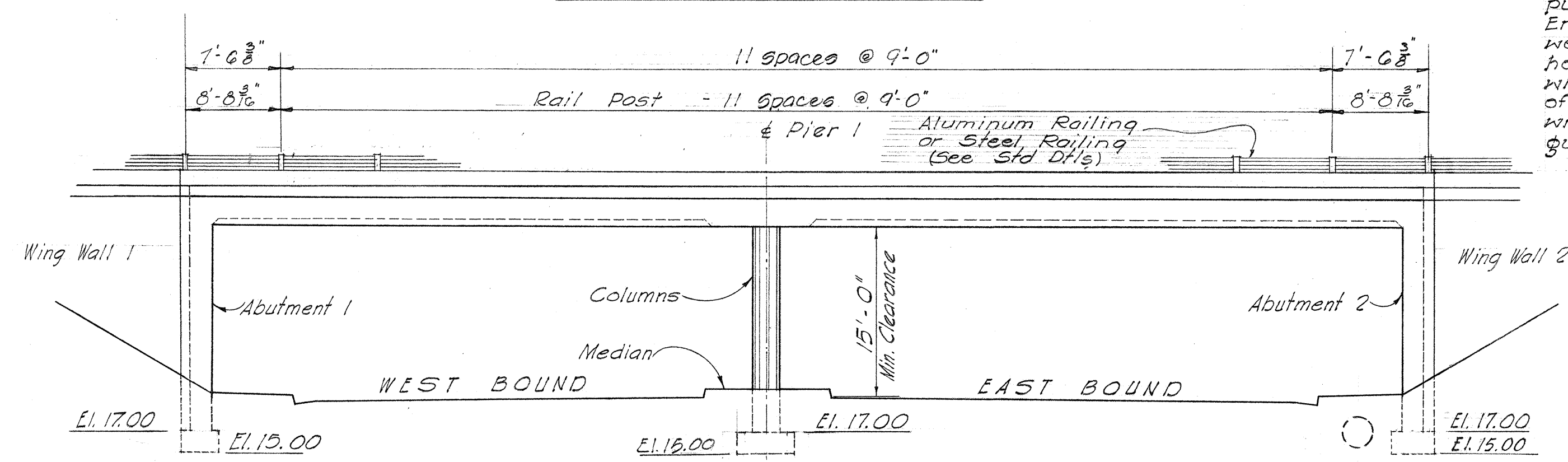


PLAN  
1" = 10'-0"

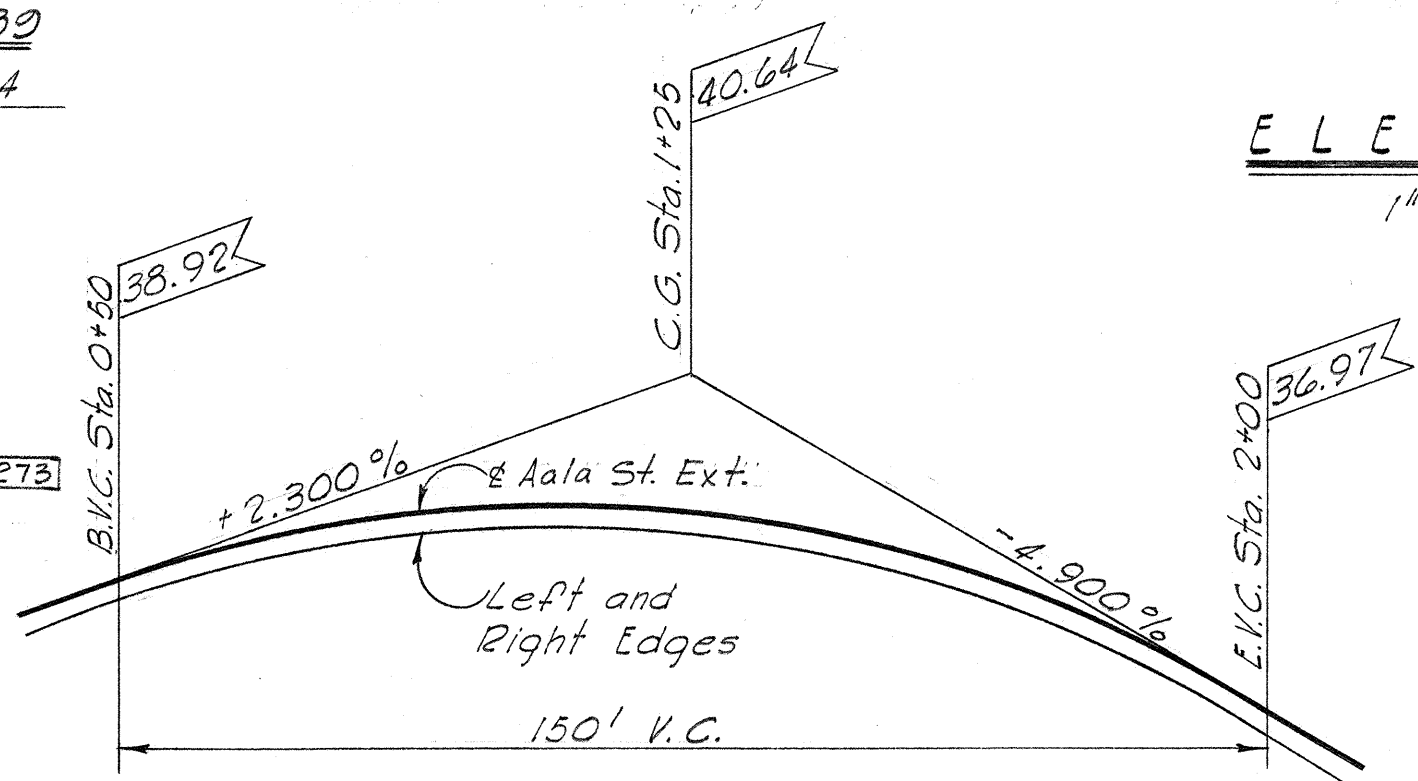


BORING LOGS

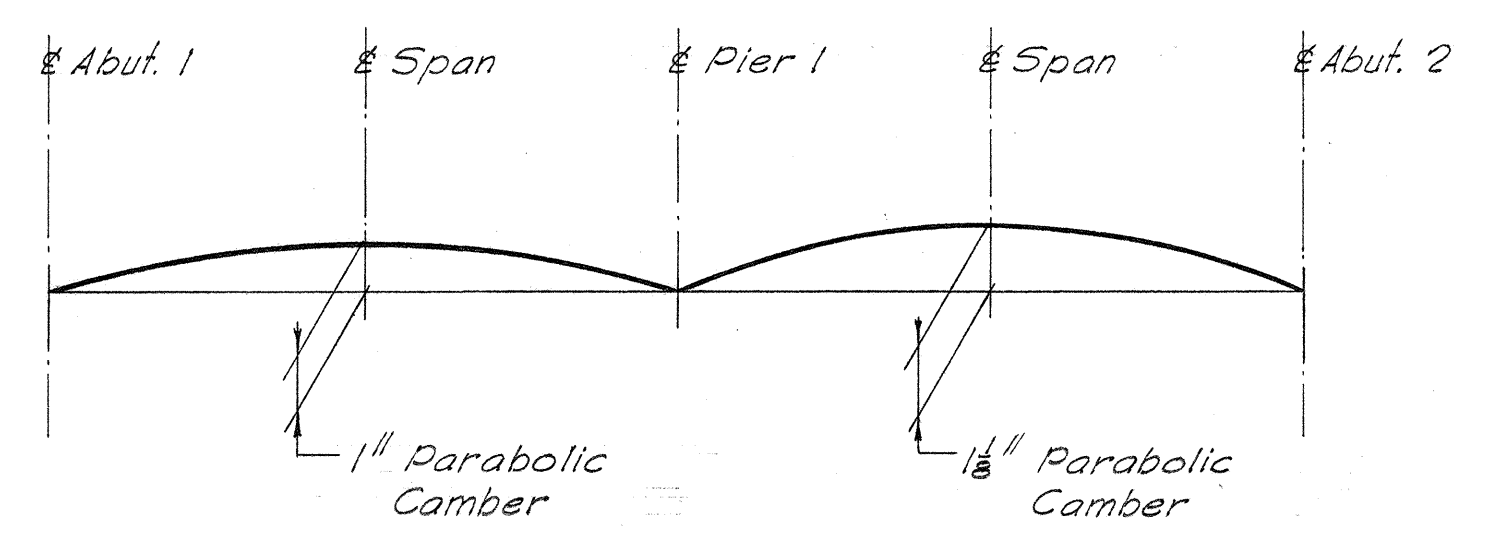
NOTE:  
The boring data shown on this plan is for design purposes only, and is for the convenience of the Engineer in the control of earthwork. The borings were carefully taken and are believed to be reliable, however, the Department assumes no responsibility whatsoever in respect to the sufficiency or accuracy of borings, or of the interpretation thereof, and will not either impliedly or expressly make any guarantee of any of the same.



| ITEM                                    | QUANTITY              |
|-----------------------------------------|-----------------------|
| Class A-1 Concrete                      | Lump Sum (444 cu yd)  |
| Reinforcing Steel                       | Lump Sum (155,828 lb) |
| Structural Excav.                       | 410 Cu Yds.           |
| Filter Material                         | 93 Cu Yds.            |
| Parapet & End Post                      | 372 Lin. Ft.          |
| Aluminum Railing or Steel Railing       | 366 Lin. Ft.          |
| Steel Grating for Utility Trough Covers | 97 Lin. Ft.           |



PROFILE  
No Scale



SLAB CAMBER DIAGRAM  
No Scale

- REFERENCE DRAWINGS
- DETAIL ROADWAY PLAN
  - TYPICAL RIGID FRAME DETAIL
  - STANDARD DETAILS
  - TYPICAL DETAILS AND GENERAL STRUCTURAL NOTES
  - RETAINING WALL DETAILS

STRUCTURE No. 7  
DEPARTMENT OF TRANSPORTATION  
DIVISION OF HIGHWAYS  
STATE OF HAWAII

AALA ST. EXTENSION SEPARATION  
PLAN

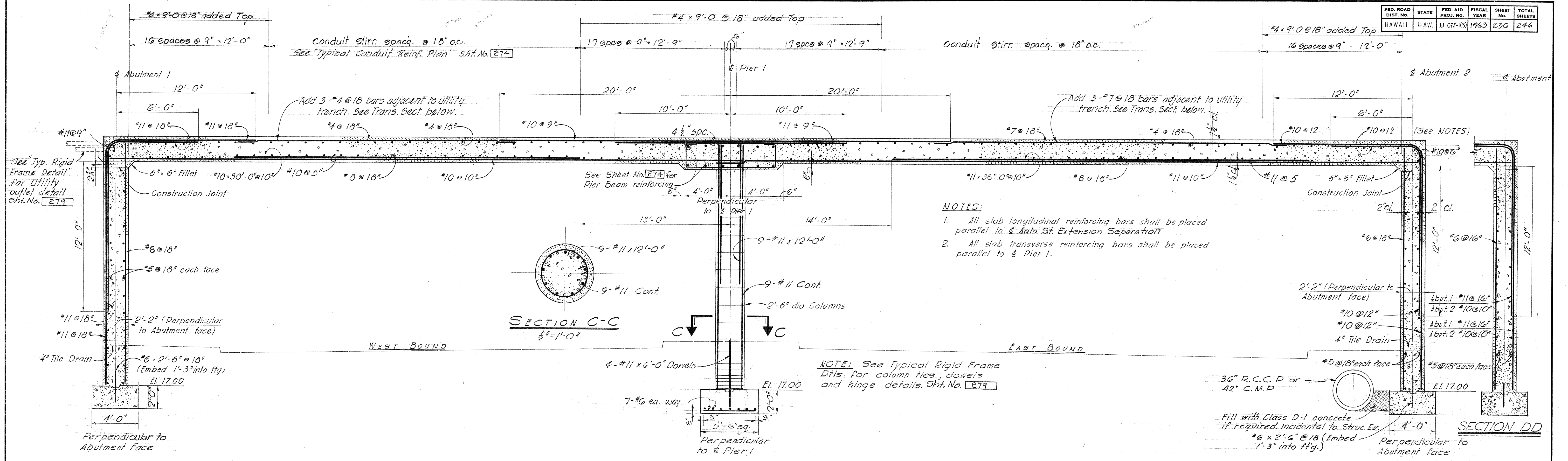
LUNALILO FREEWAY

U-072-1 (3)

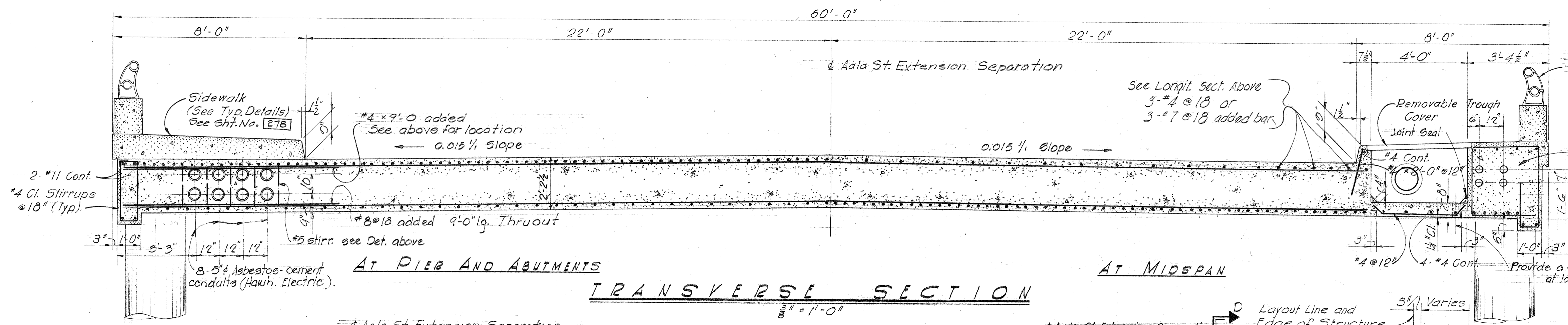
GUY H. TAYLOR  
REGISTERED PROFESSIONAL ENGINEER  
No. 882  
HAWAII, U.S.A.

MOFFATT, NICHOL & TAYLOR  
Associated with  
BELT, COLLINS & ASSOC., LTD.  
Civil and Structural Engineers

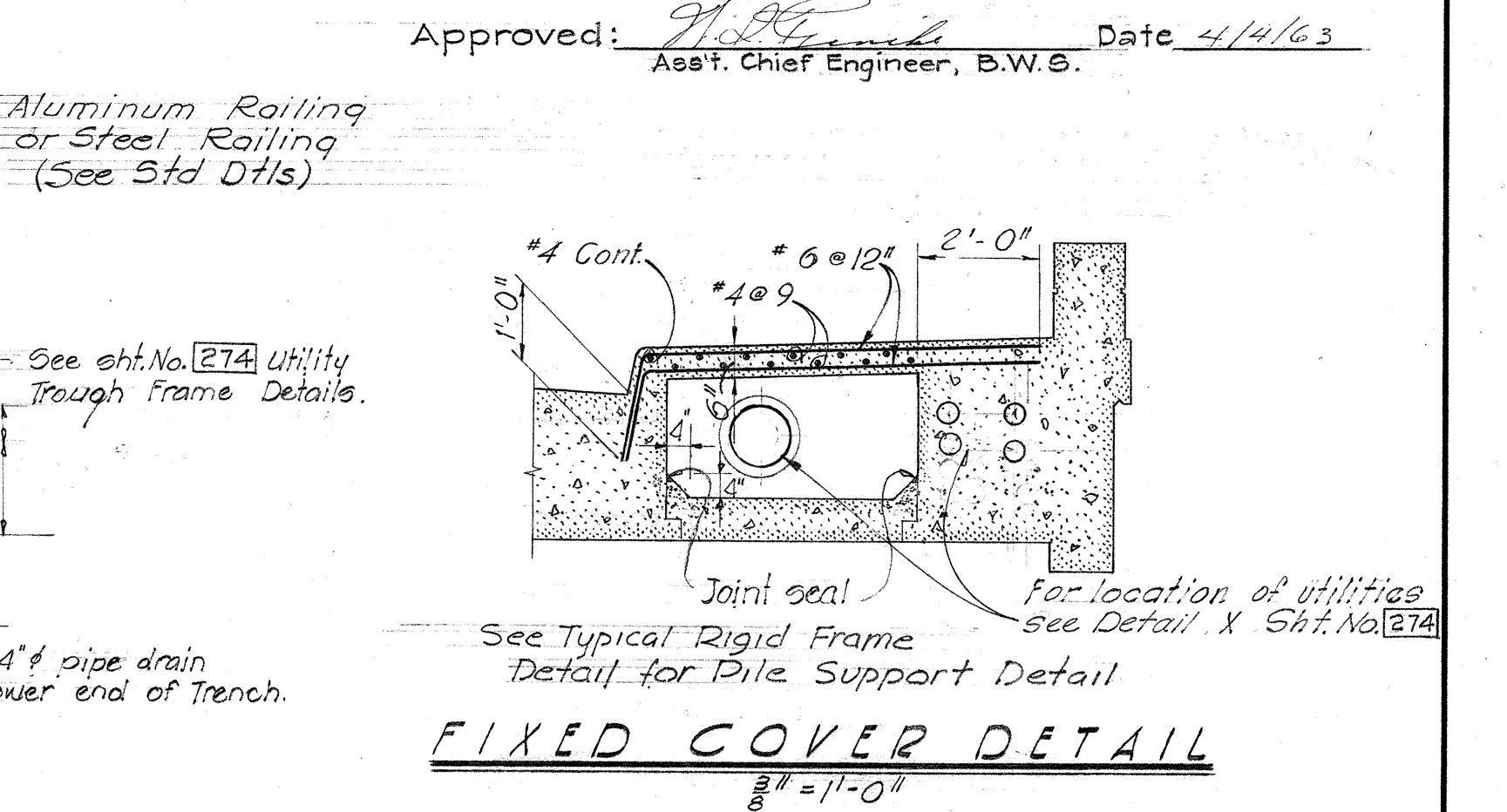
| FED. ROAD DIST. NO. | STATE | FED. AID PROJ. NO. | FISCAL YEAR | SHEET NO. | TOTAL SHEETS |
|---------------------|-------|--------------------|-------------|-----------|--------------|
| HAWAII              | HAW.  | U-072-1(3)         | 1963        | 236       | 246          |



LONGITUDINAL SECTION AT OVERPASS  
1/8" = 1'-0"



TRANSVERSE SECTION  
3/8" = 1'-0"



FIXED COVER DETAIL  
3/8" = 1'-0"

NOTES:  
1. Section B-B same but opposite hand.  
2. Reinforcing shown is in addition to typical abutment and wing wall reinforcing.

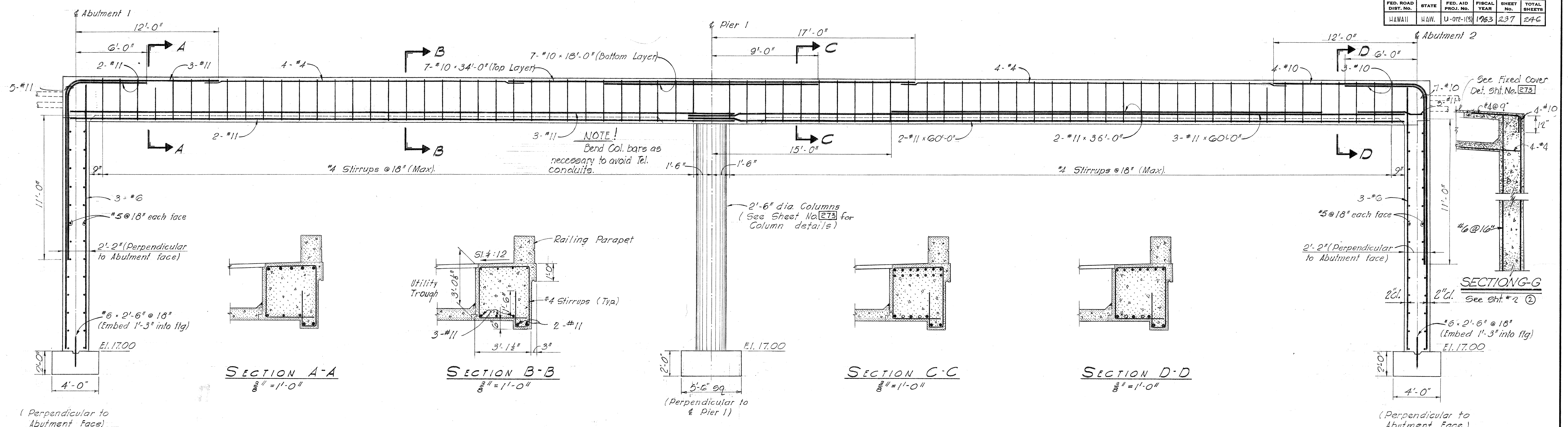


STRUCTURE No 7  
DEPARTMENT OF TRANSPORTATION  
DIVISION OF HIGHWAYS  
STATE OF HAWAII  
ALAA ST. EXTENSION SEPARATION  
SECTIONS  
LUNALILO FREEWAY U-072-1(3)

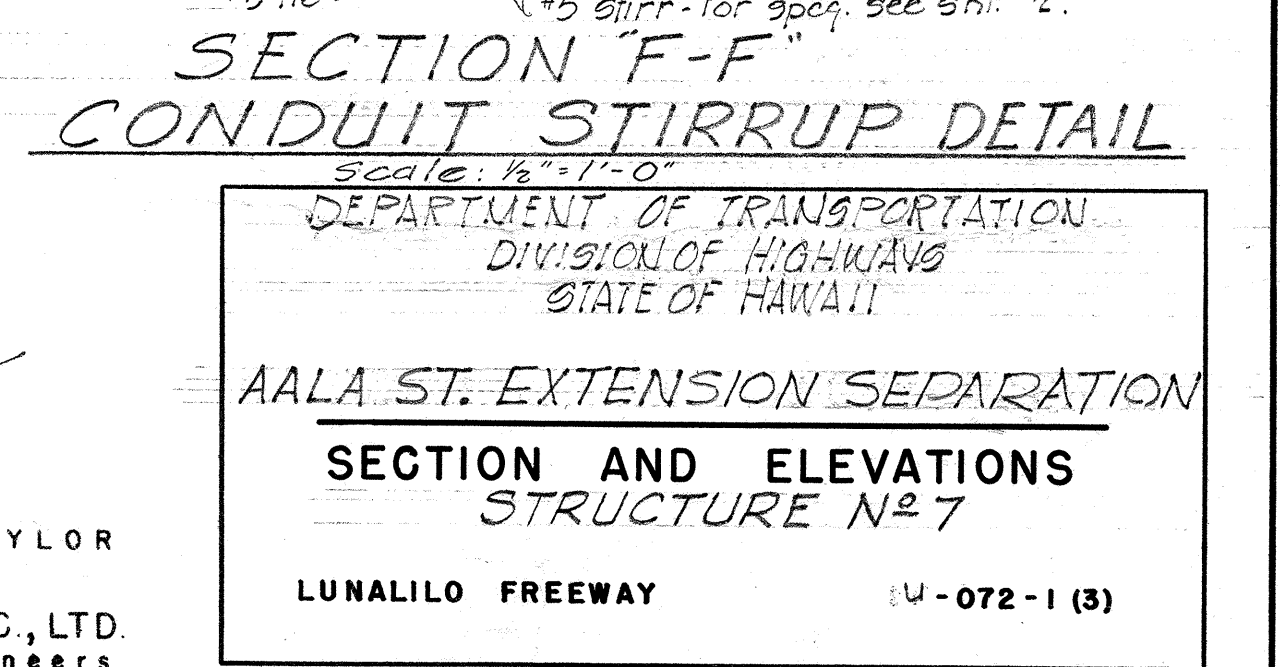
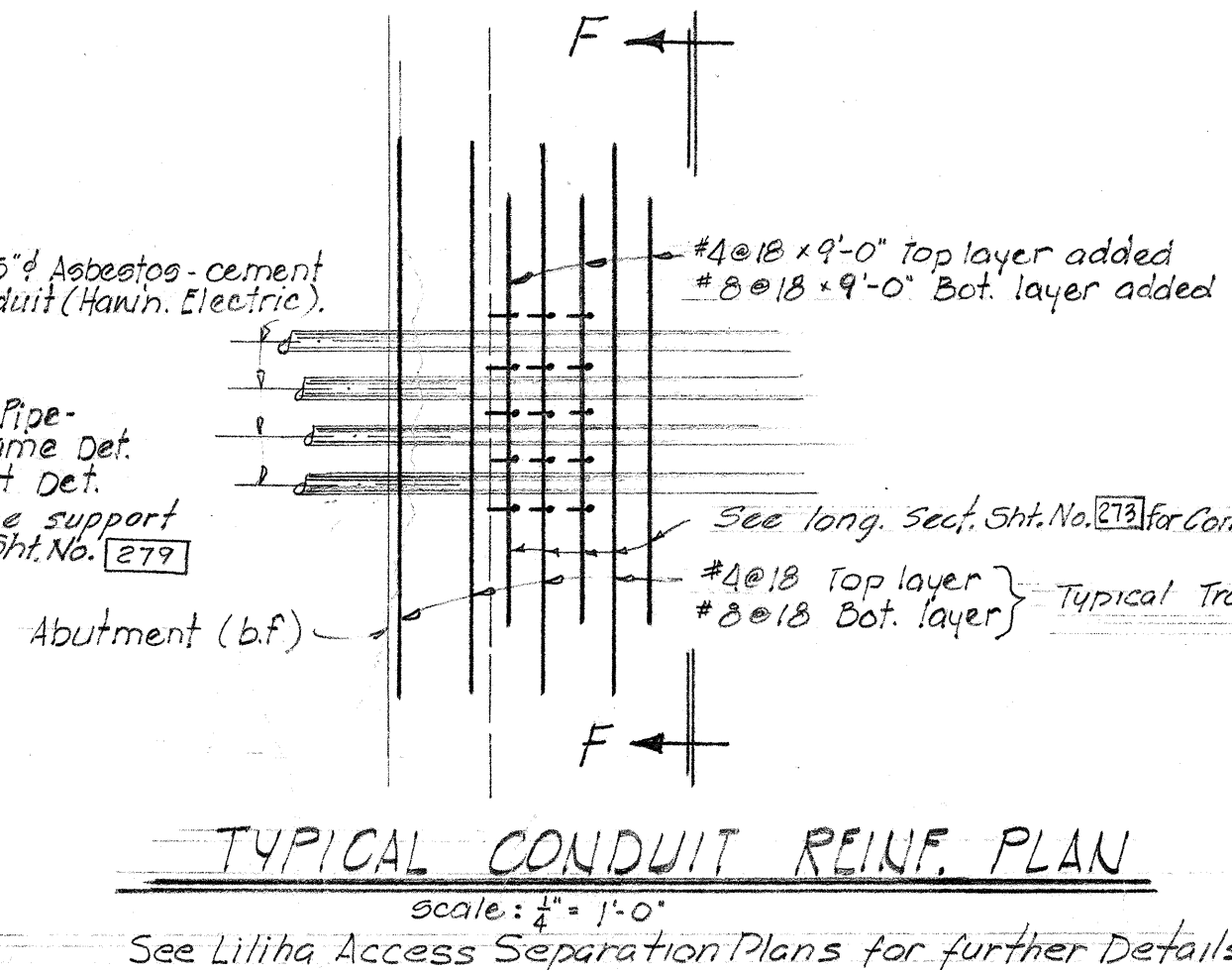
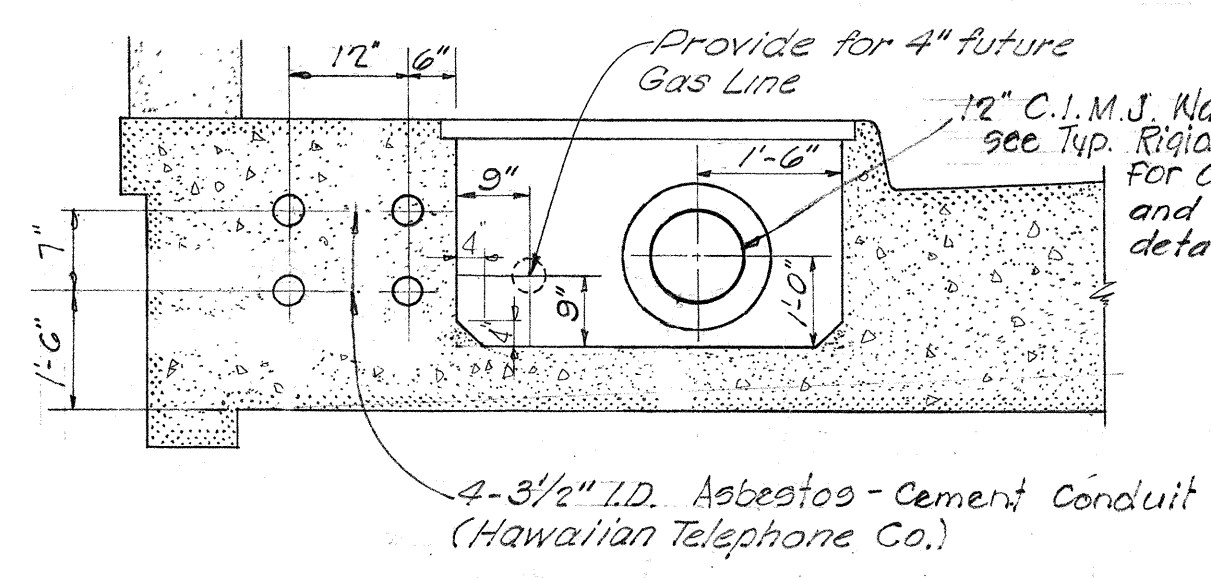
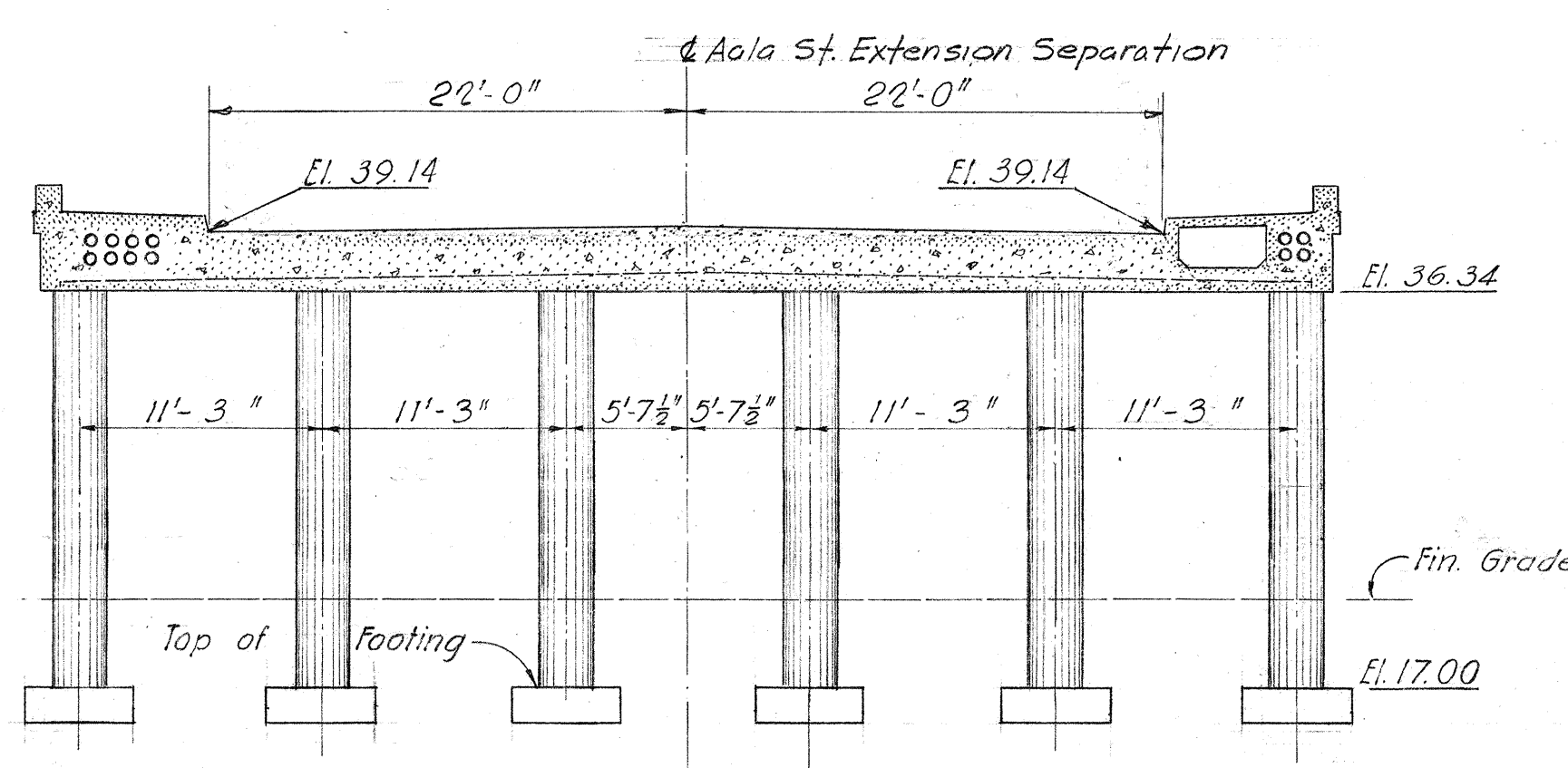
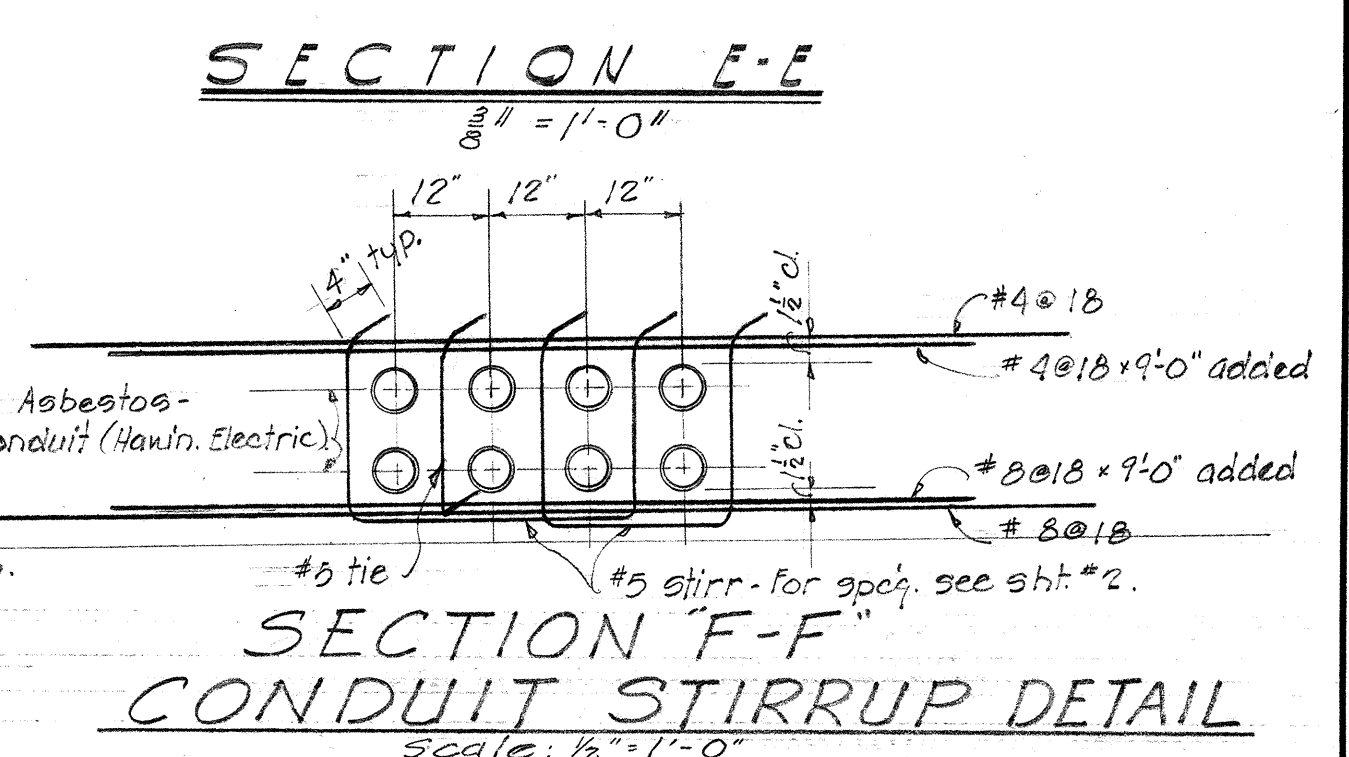
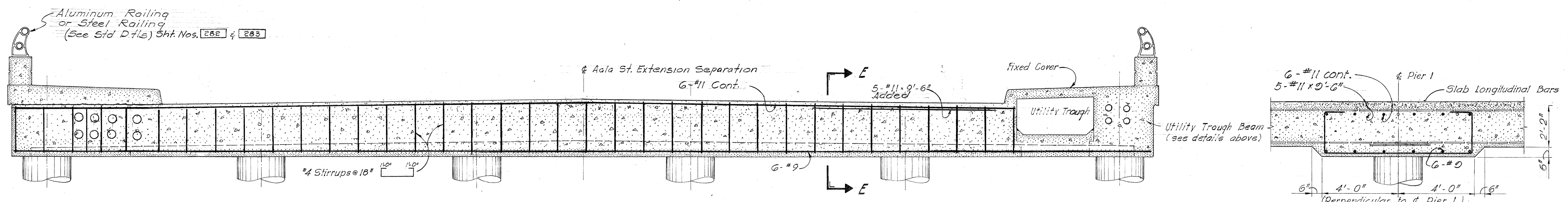
|                       |         |
|-----------------------|---------|
| DATE                  | JULY 55 |
| SURVEY PLOTTED BY     | ...     |
| ORIGINAL PLAN         | ...     |
| TRACED BY             | ...     |
| QUANTITIES CHECKED BY | ...     |
| NOTE BOOK             | ...     |
| No.                   | ...     |

① See SECTION D-D (This Sheet)  
② See SECTION G-G (Sheet No. 274)  
③ See UTILITY TROUGH FRAME ELEV. (Sheet No. 274)

| FED. ROAD DIST. NO. | STATE | FED. AID PROJ. NO. | FISCAL YEAR | SHEET NO. | TOTAL SHEETS |
|---------------------|-------|--------------------|-------------|-----------|--------------|
| HAWAII              | HAW.  | U-072-1(3)         | 1963        | 237       | 246          |



UTILITY TROUGH FRAME ELEVATION SECT. 3



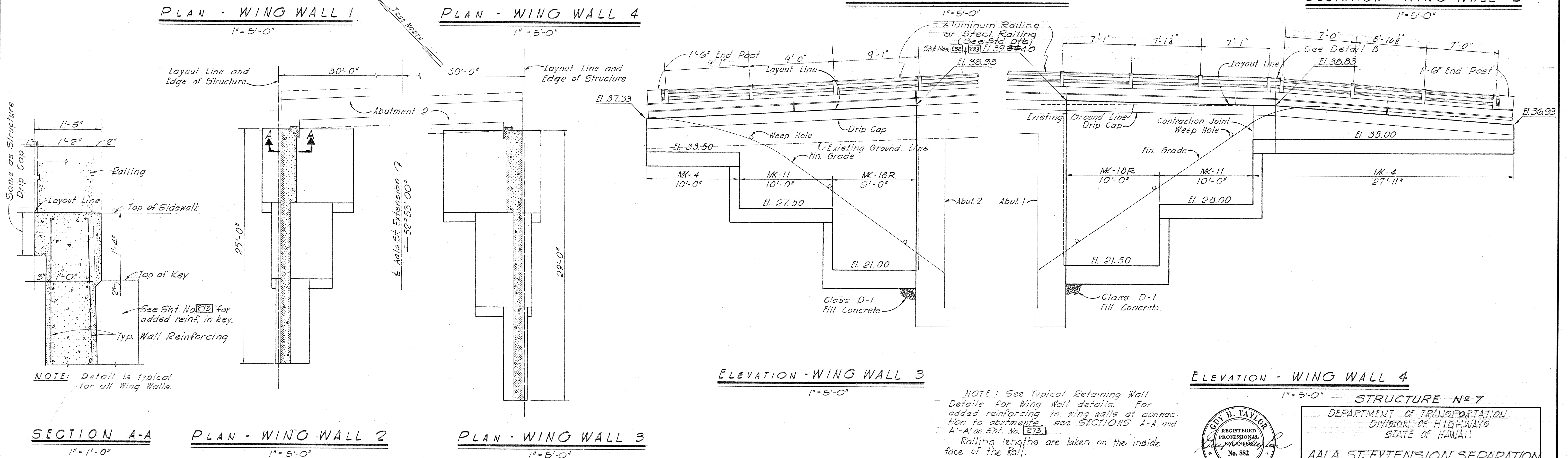
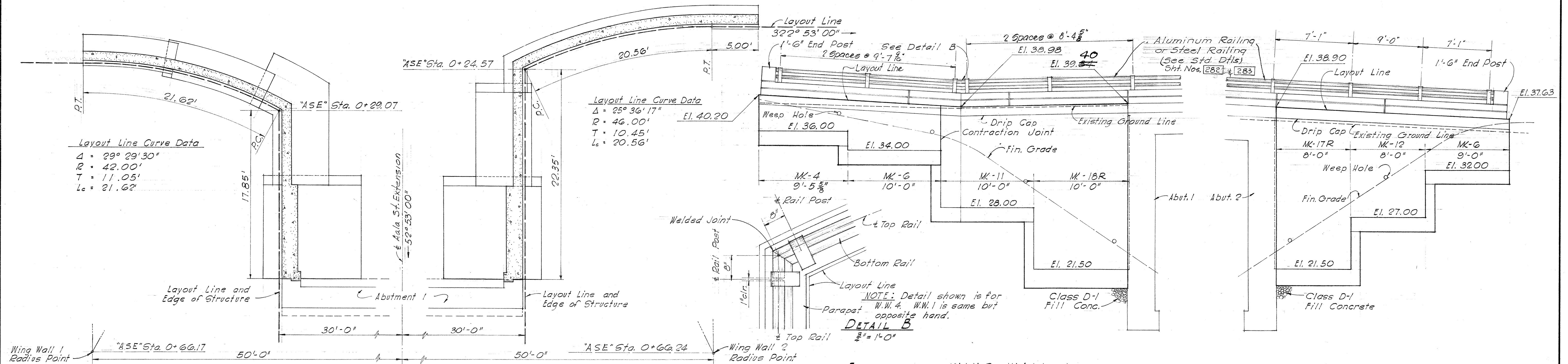
|                       |         |
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| ORIGINAL PLAN         | JULY 63 |
| TRACED BY             |         |
| QUANTITIES CHECKED BY |         |
| NOTE BOOK             |         |
| No.                   |         |

APPROVED: *Hawmud O'Keefe* 4/2/63  
PLANNING ENGINEER, HON. GAS CO.  
DATE 3-14-63  
PLANT ENGR. SUPV., H.T. CO., LTD.

APPROVED: *Hawmud O'Keefe* 3-22-63  
PLANNING ENGINEER, HON. GAS CO.  
DATE 3-24-63  
Approved *John C. Shaw* Date 4/1/63  
Asst. Chief Engineer, B.W.S.

GUY H. TAYLOR  
REGISTERED PROFESSIONAL ENGINEER  
No. 882  
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MOFFATT, NICHOL & TAYLOR  
Associated with  
BELT, COLLINS & ASSOC., LTD.  
Civil and Structural Engineers

SECTION AND ELEVATIONS  
STRUCTURE No. 7  
LUNALILO FREEWAY  
U-072-1(3)



MOFFATT, NICHOL & TAYLOR  
Associated with  
BELT, COLLINS & ASSOC., LTD.  
Civil and Structural Engineers

STRUCTURE No. 7  
DEPARTMENT OF TRANSPORTATION  
DIVISION OF HIGHWAYS  
STATE OF HAWAII  
**AALA ST. EXTENSION SEPARATION**  
**WING WALLS**  
LUNALILO FREEWAY U-072-1(3)