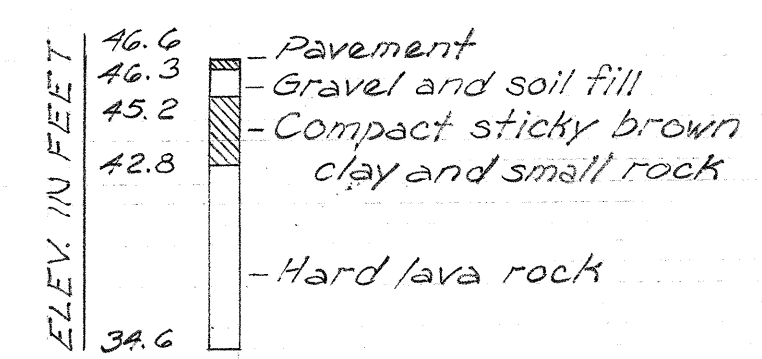


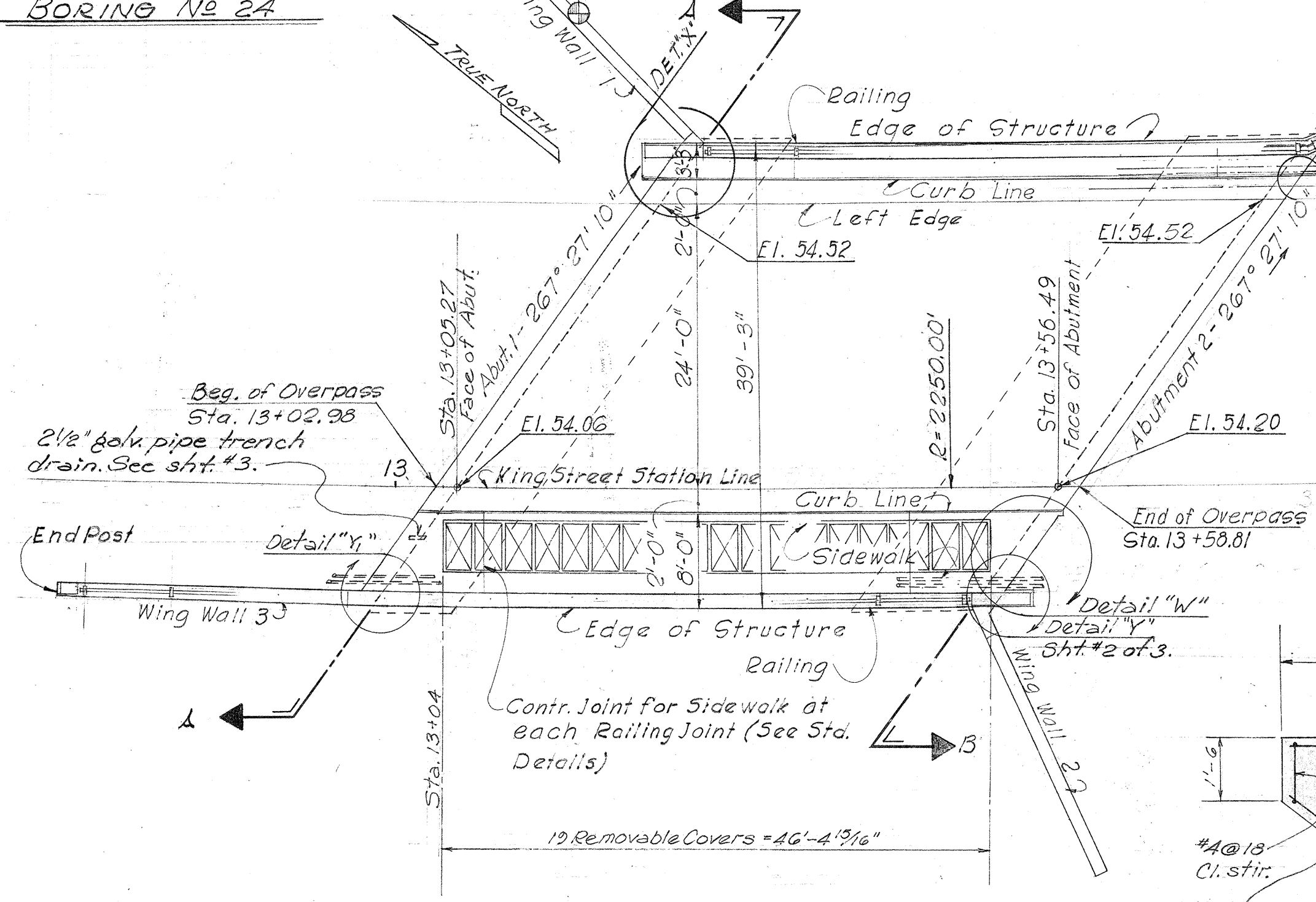
FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW	1650000	1960	53	79

CURVE DATA
 $\Delta = 5^\circ-09'-50''$
 $R = 2250.00$
 $T = 101.46$
 $Lc = 202.79$

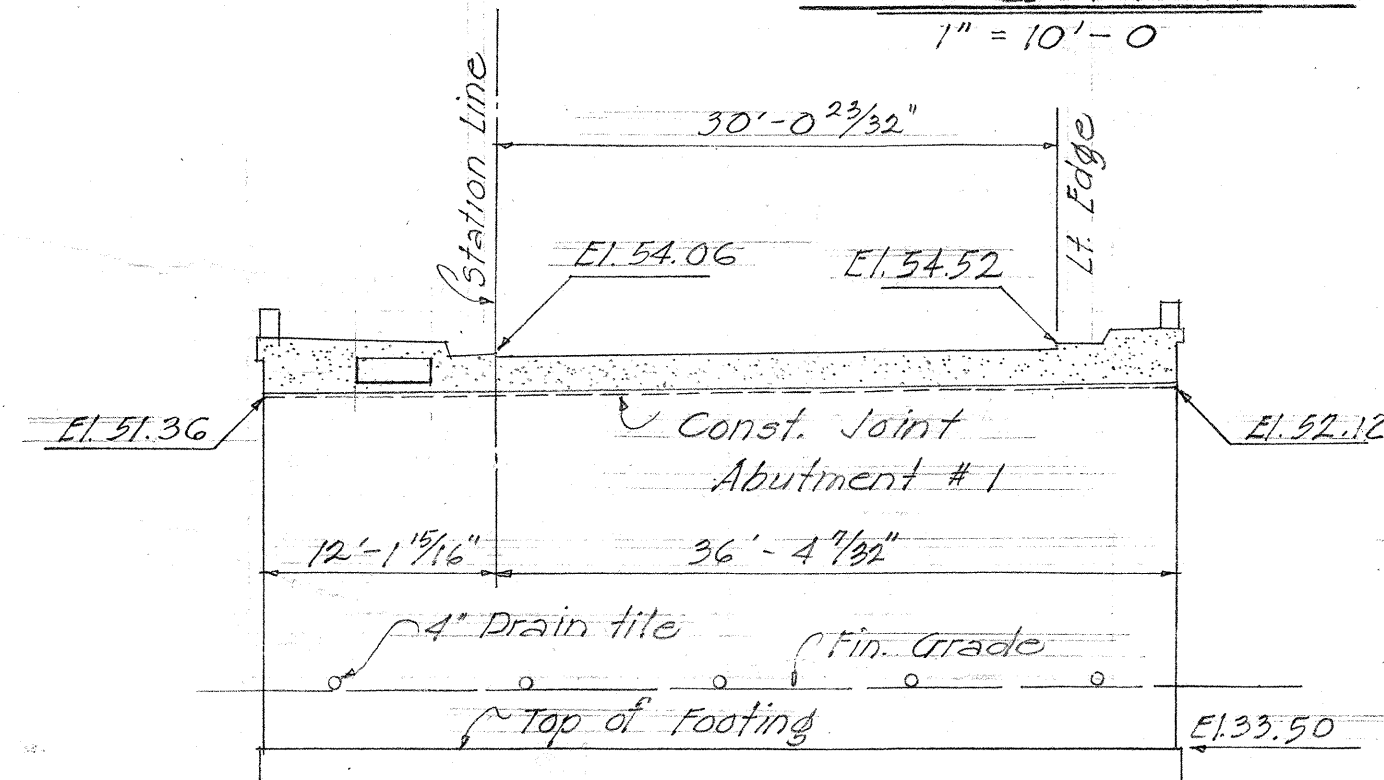
ESTIMATED QUANTITIES	
ITEM	QUANTITY
Class A-1 Concrete	Lump Sum (422 C.Y.)
Reinforcing Steel	Lump Sum (82,690 LBS)
Structure Exc.	385 C.Y.
Filter Material	85 C.Y.
A.C. Paving Mix V	42 Ton
Tack Coat	34 Gal.
Aluminum Railing	175 Lin. Ft.
Steel Grating on Utility Tr.	47 Lin. Ft.



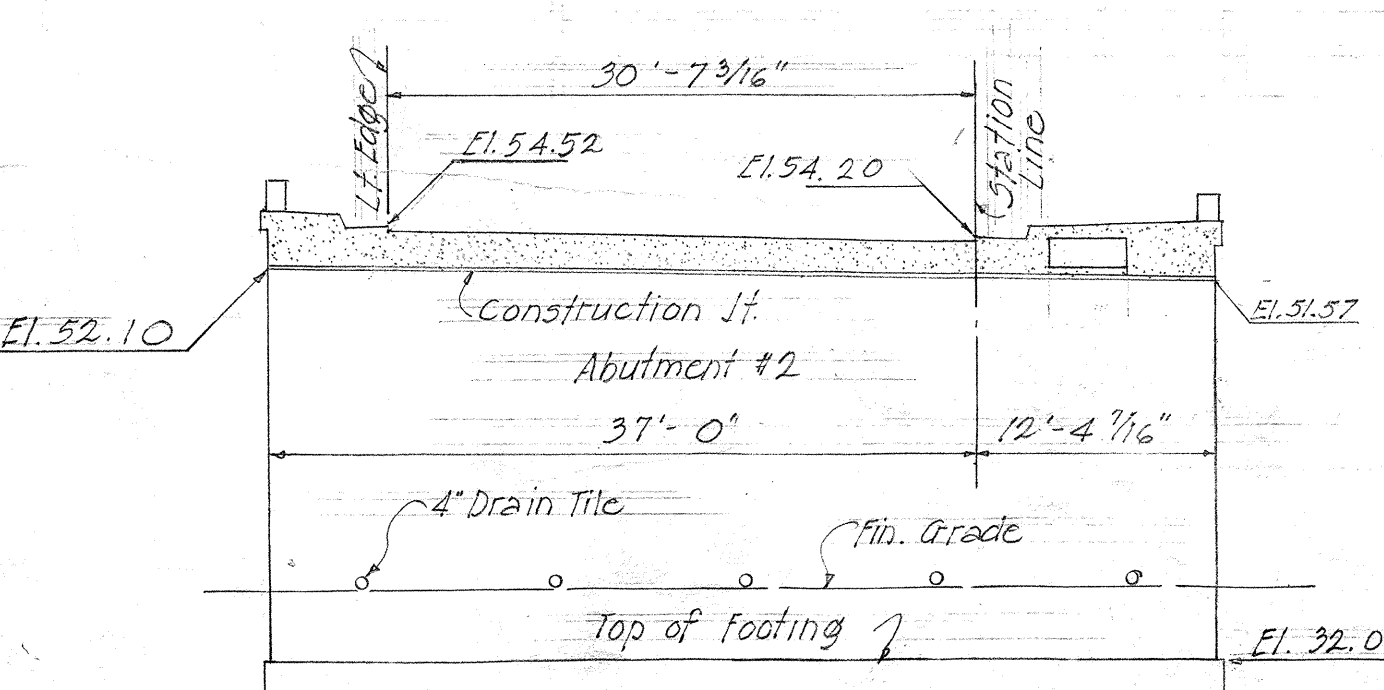
BORING NO. 24



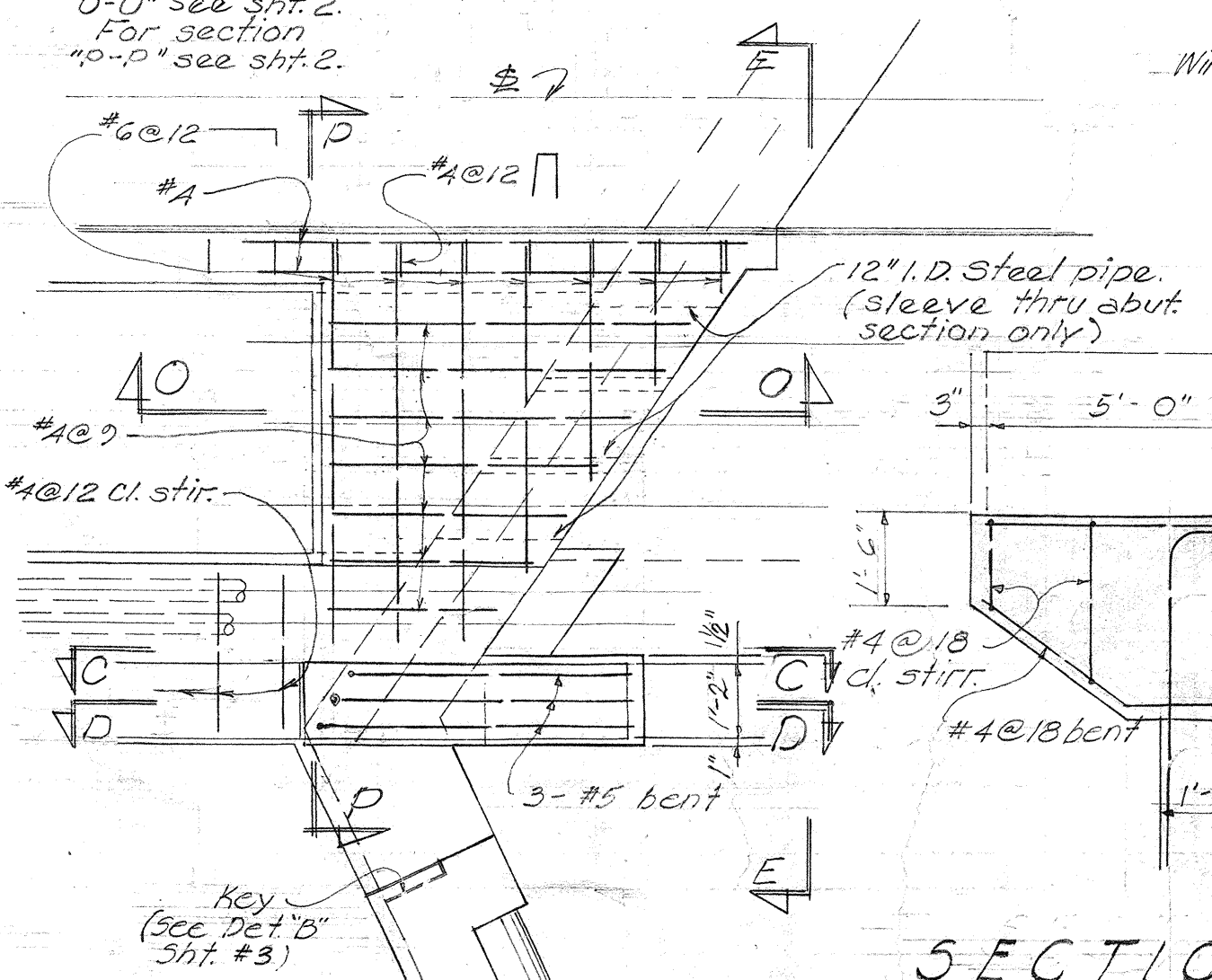
PLAN
1" = 10'-0"



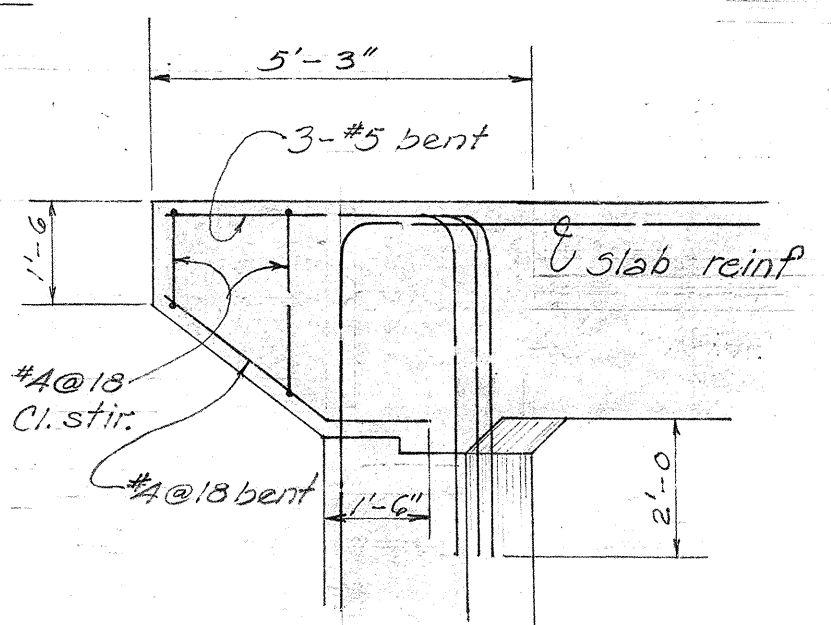
SECTION "A-A"



SECTION "B-B"

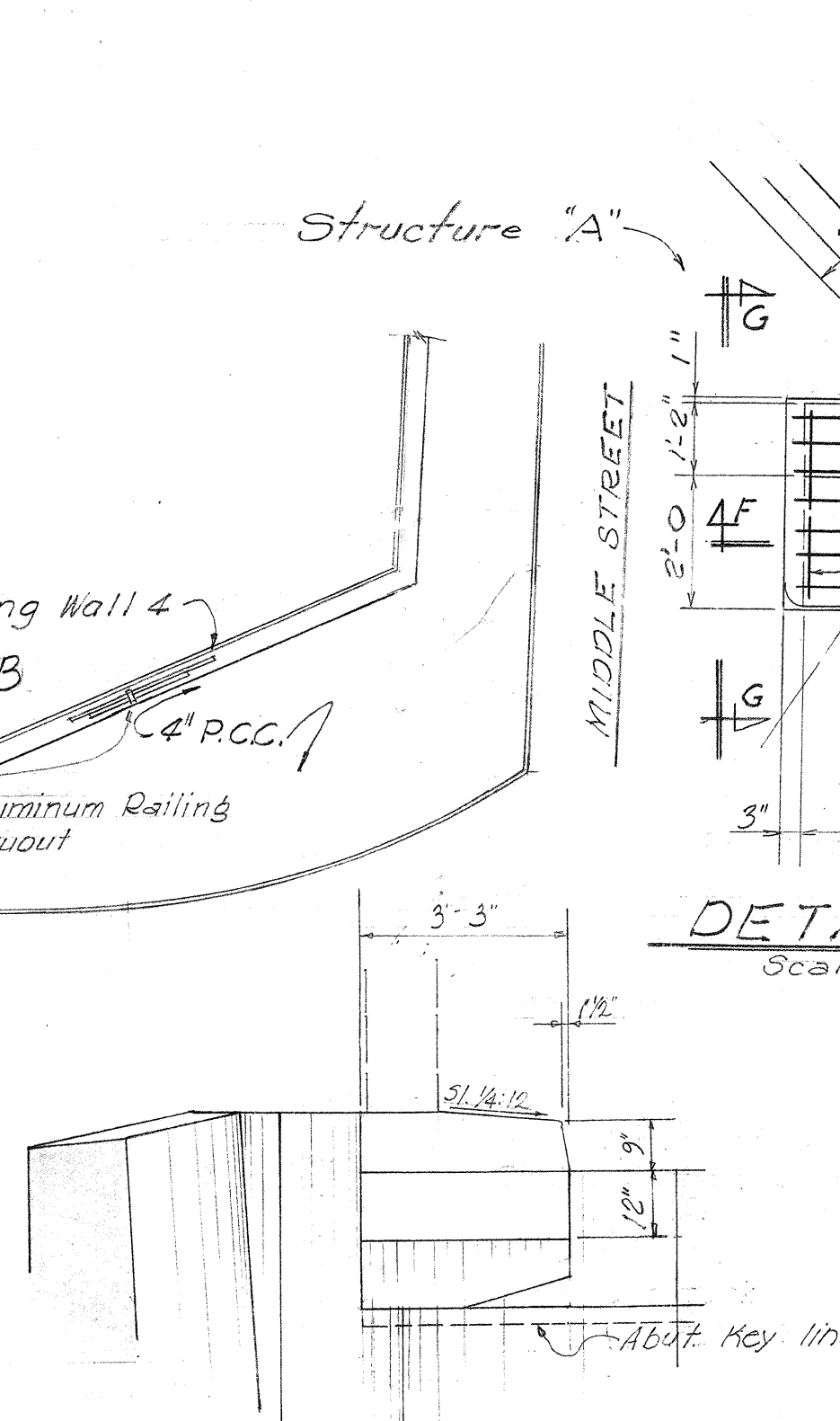


DETAIL "W"
Similar at Abut. 1

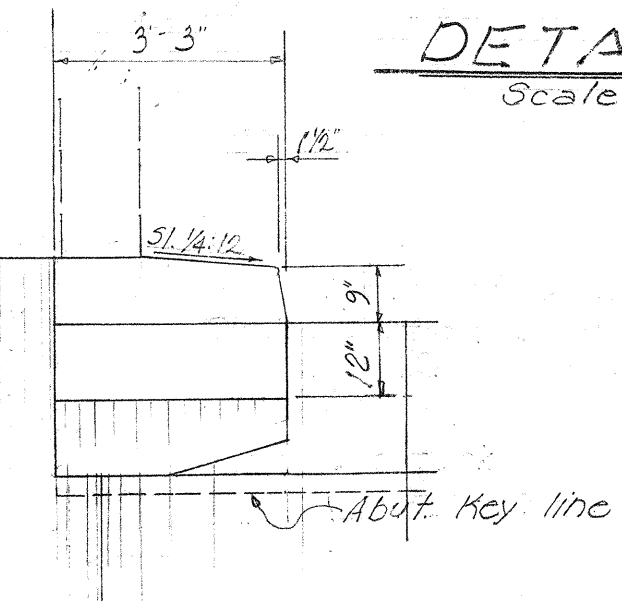


SECTION "C-C"

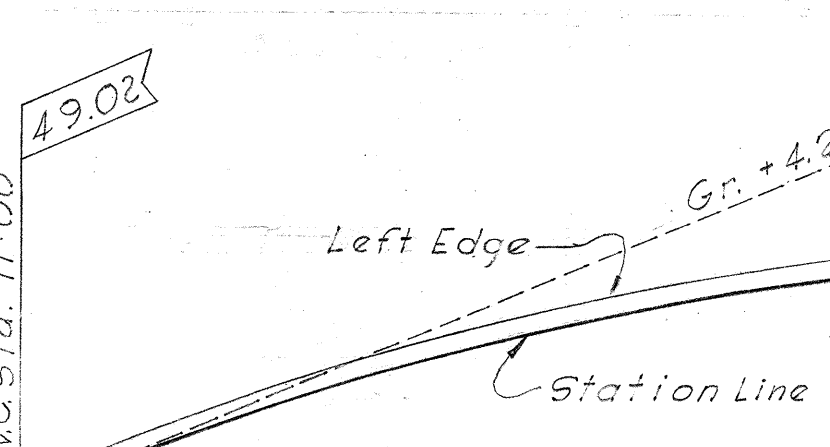
ELEVATION "G-G"
Scale: 3/8" = 1'-0"



DETAIL "X"
Scale: 3/8" = 1'-0"

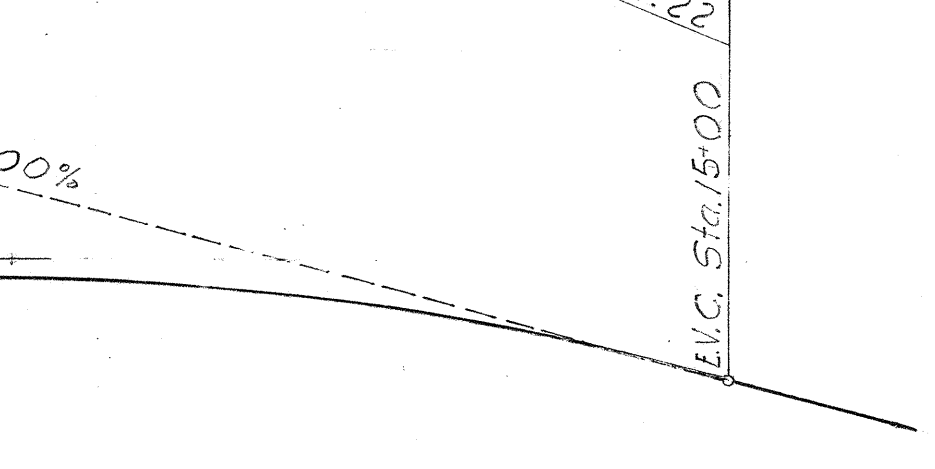


DETAIL "V" (Sh#2)
Scale: 3/8" = 1'-0"

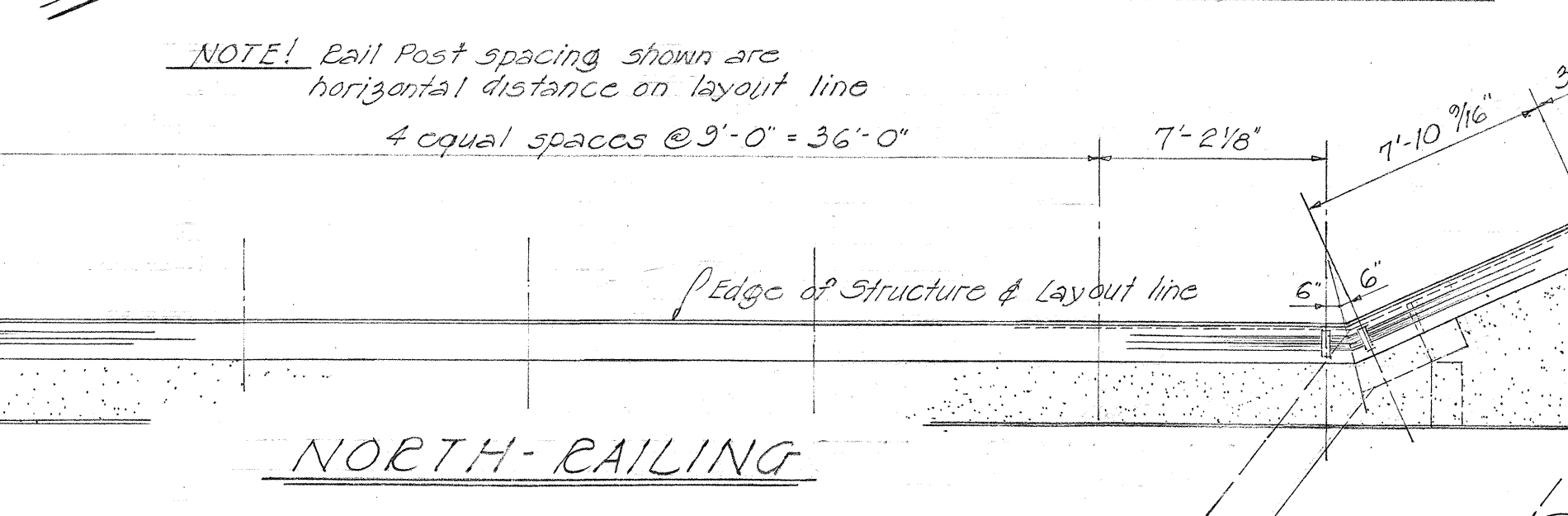


Note: Brackets, clamps, bolts, hexagon nuts and washers (galvanized) are incidental to 2 1/2" pipe.

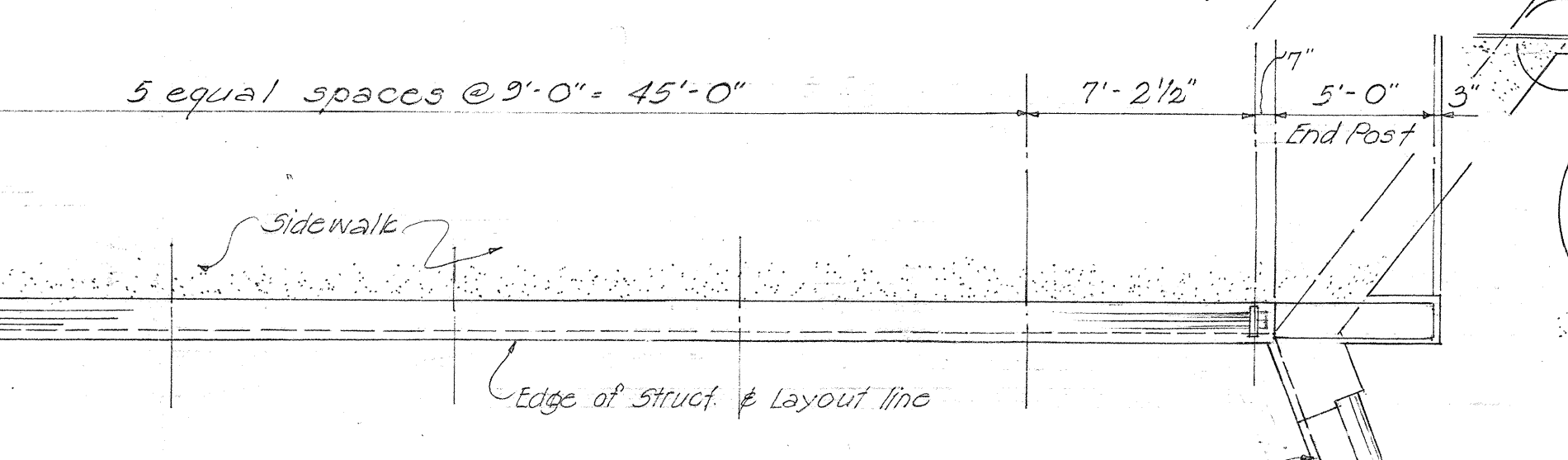
SECTION "F-F"
Scale: 3/8" = 1'-0"



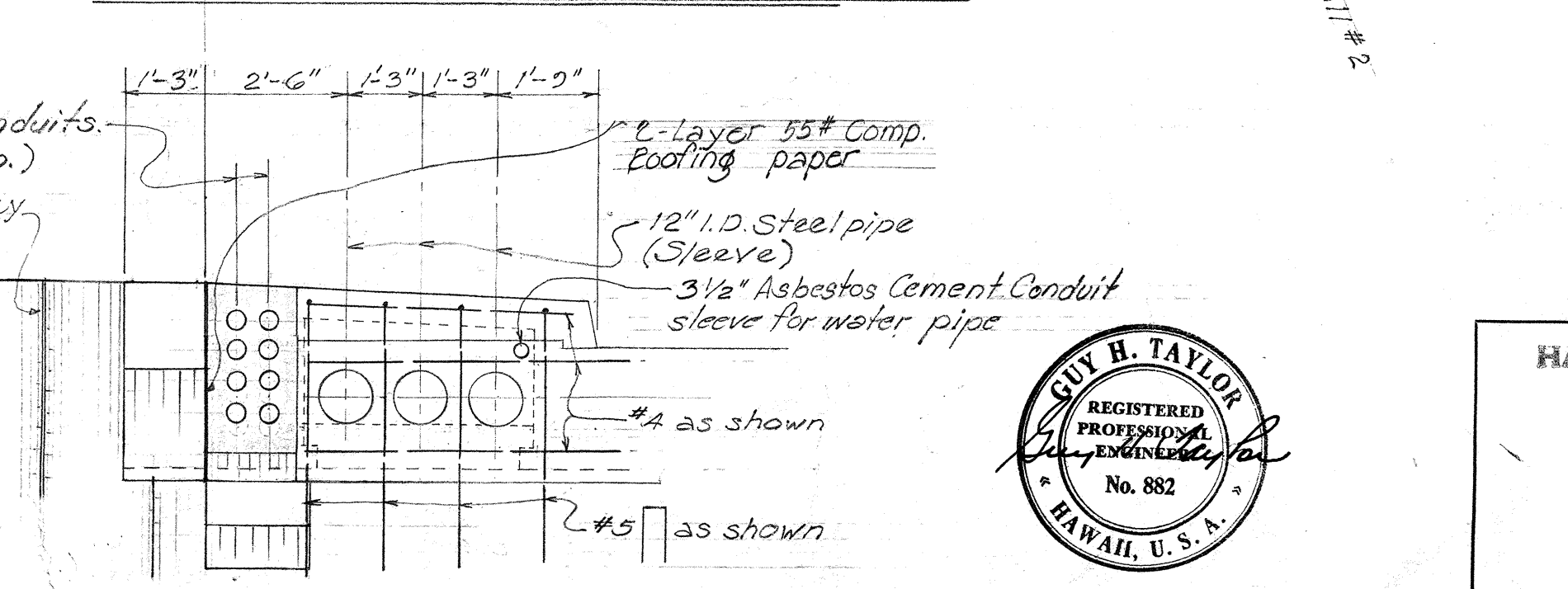
PROFILE ~ KING STREET
Hori. 1" = 40'-0" Vert. 1" = 4'-0"



NORTH-RAILING



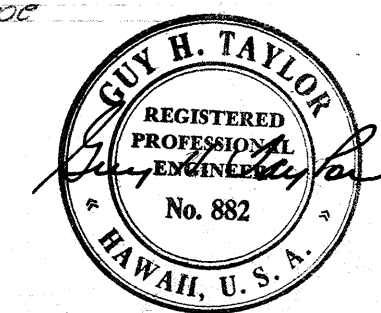
SOUTH-RAILING
RAILING ~ PART PLAN



SECTION "H-H"

REFERENCE DRAWINGS

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



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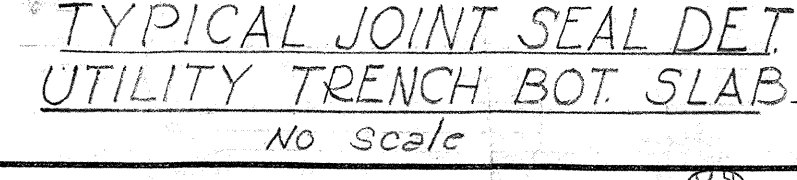
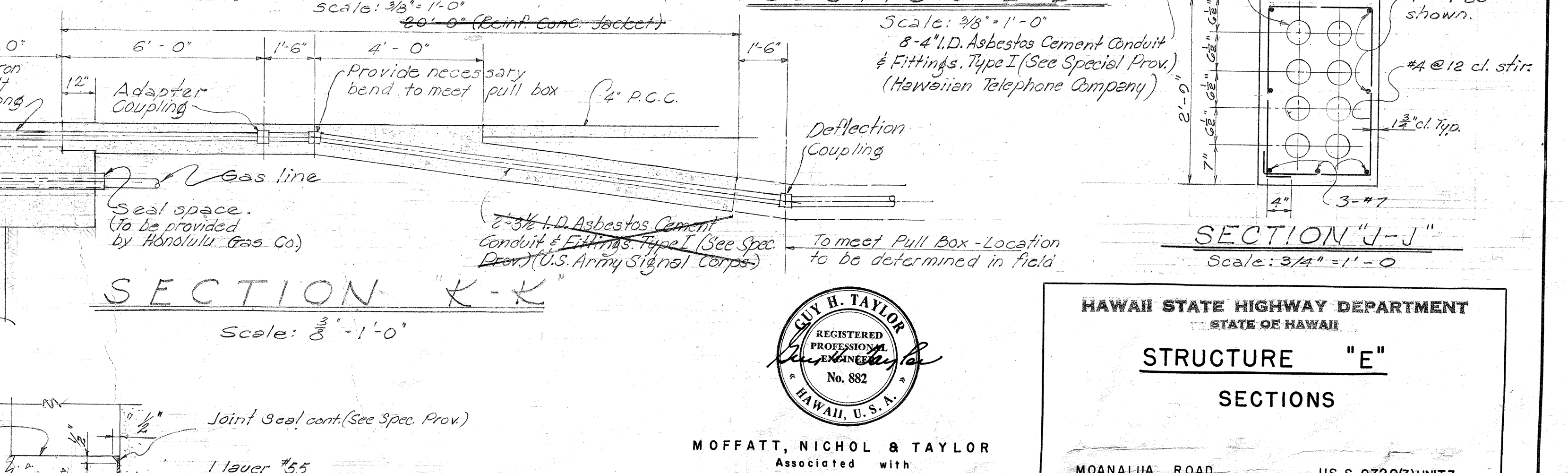
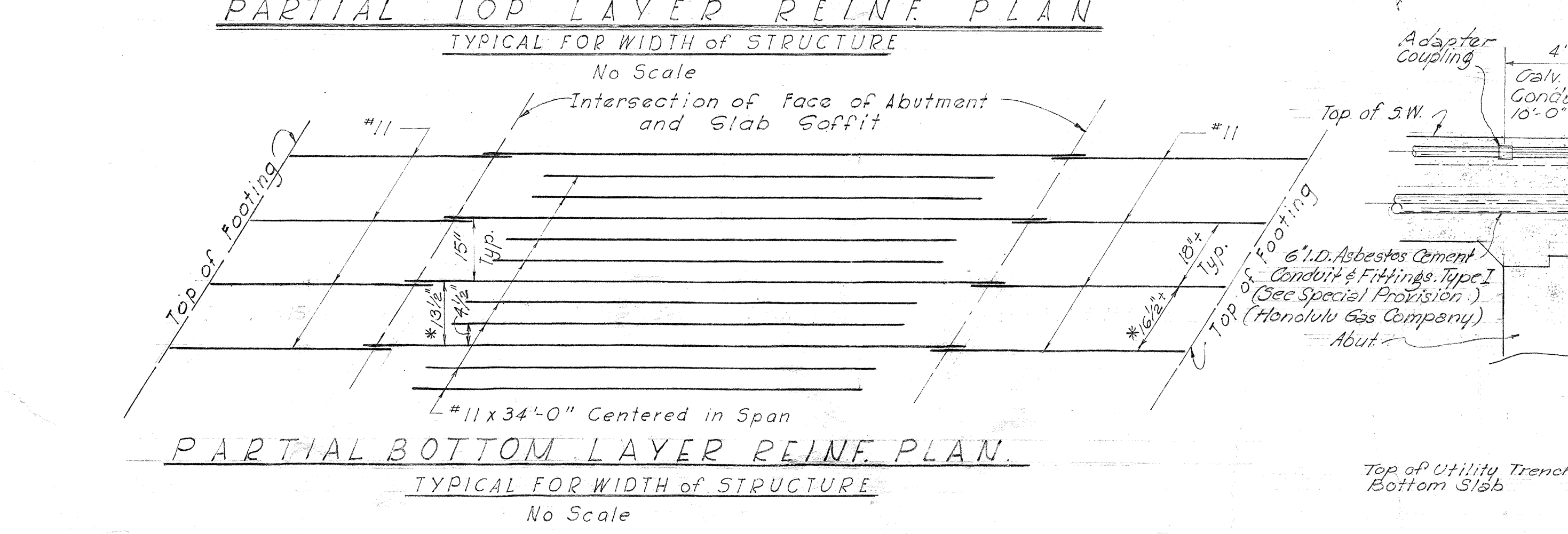
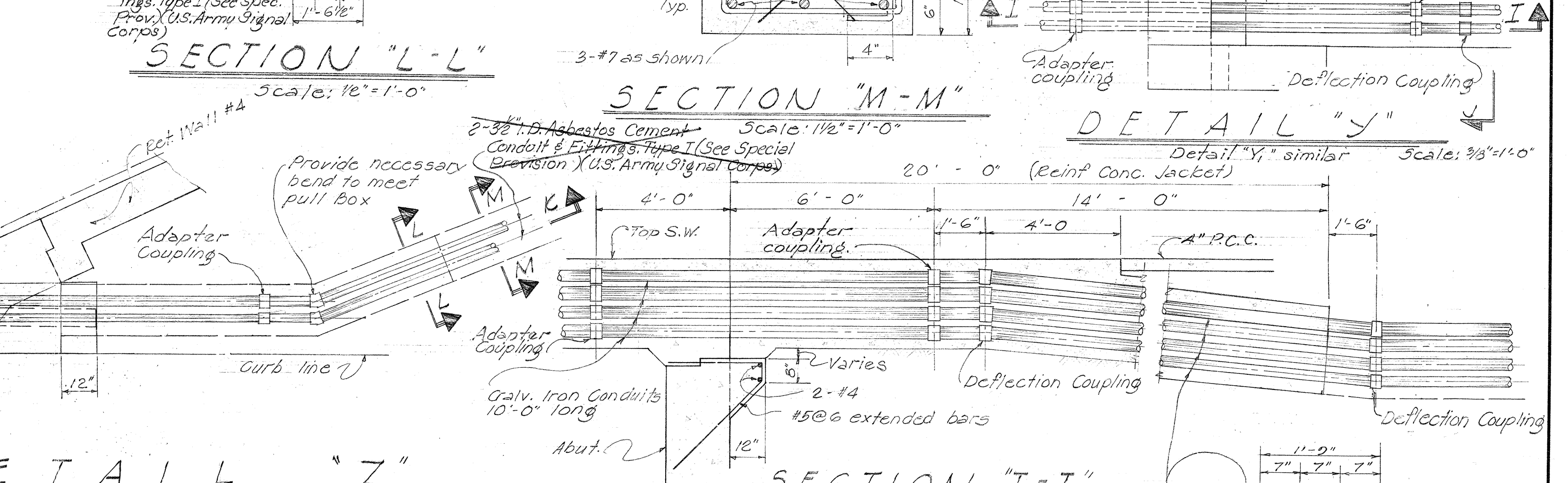
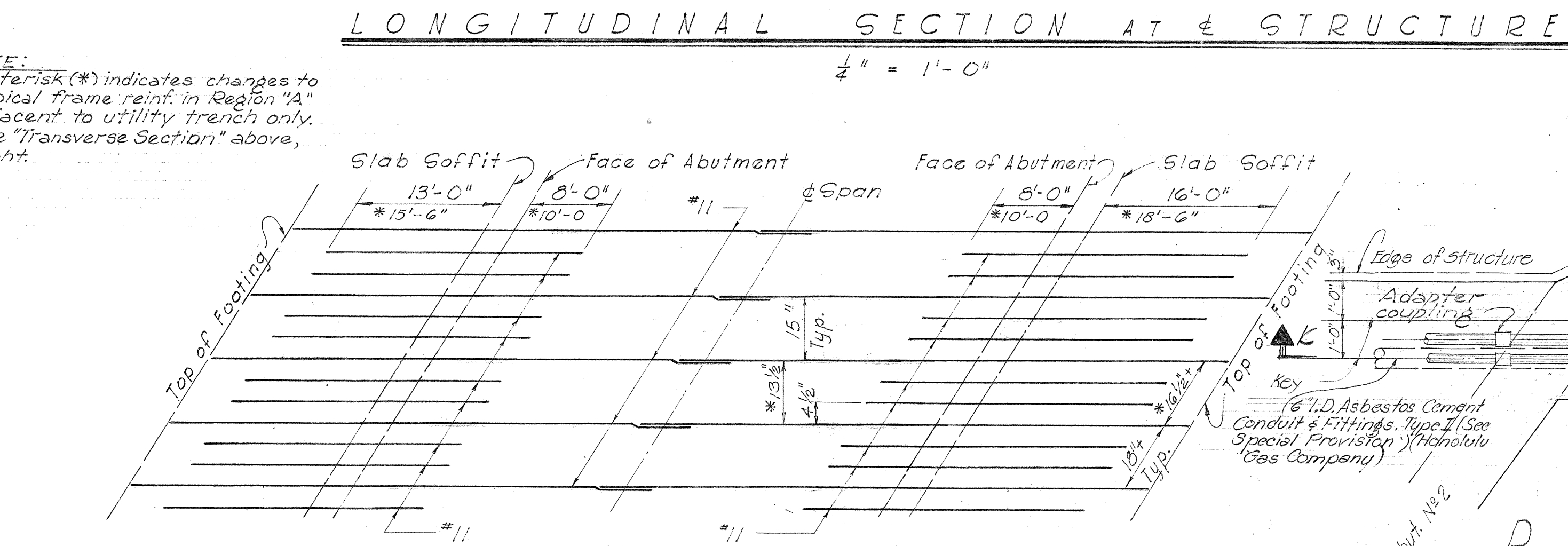
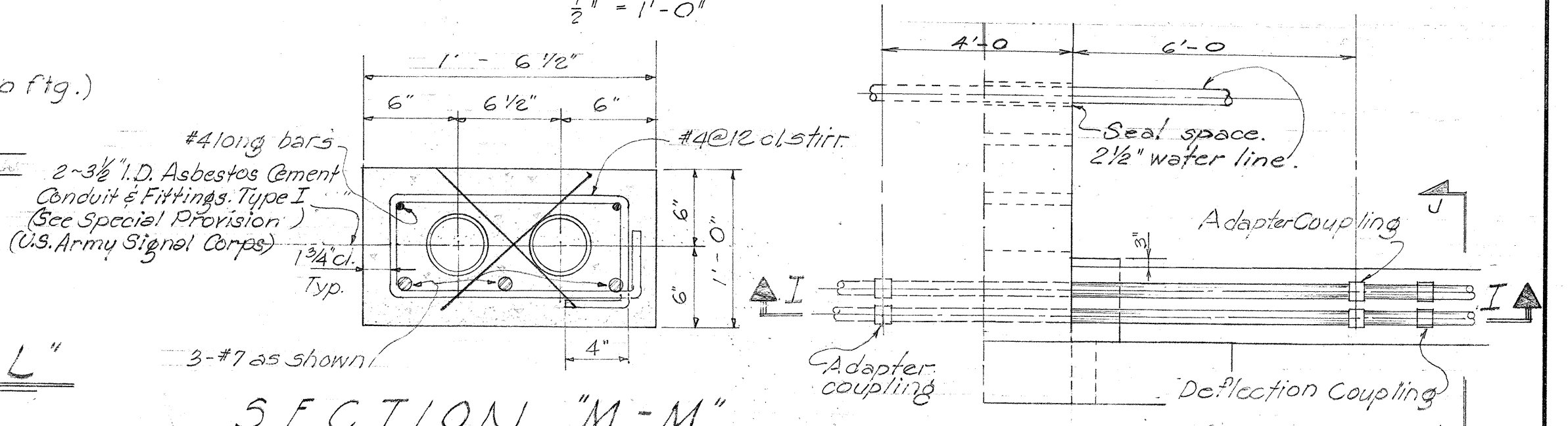
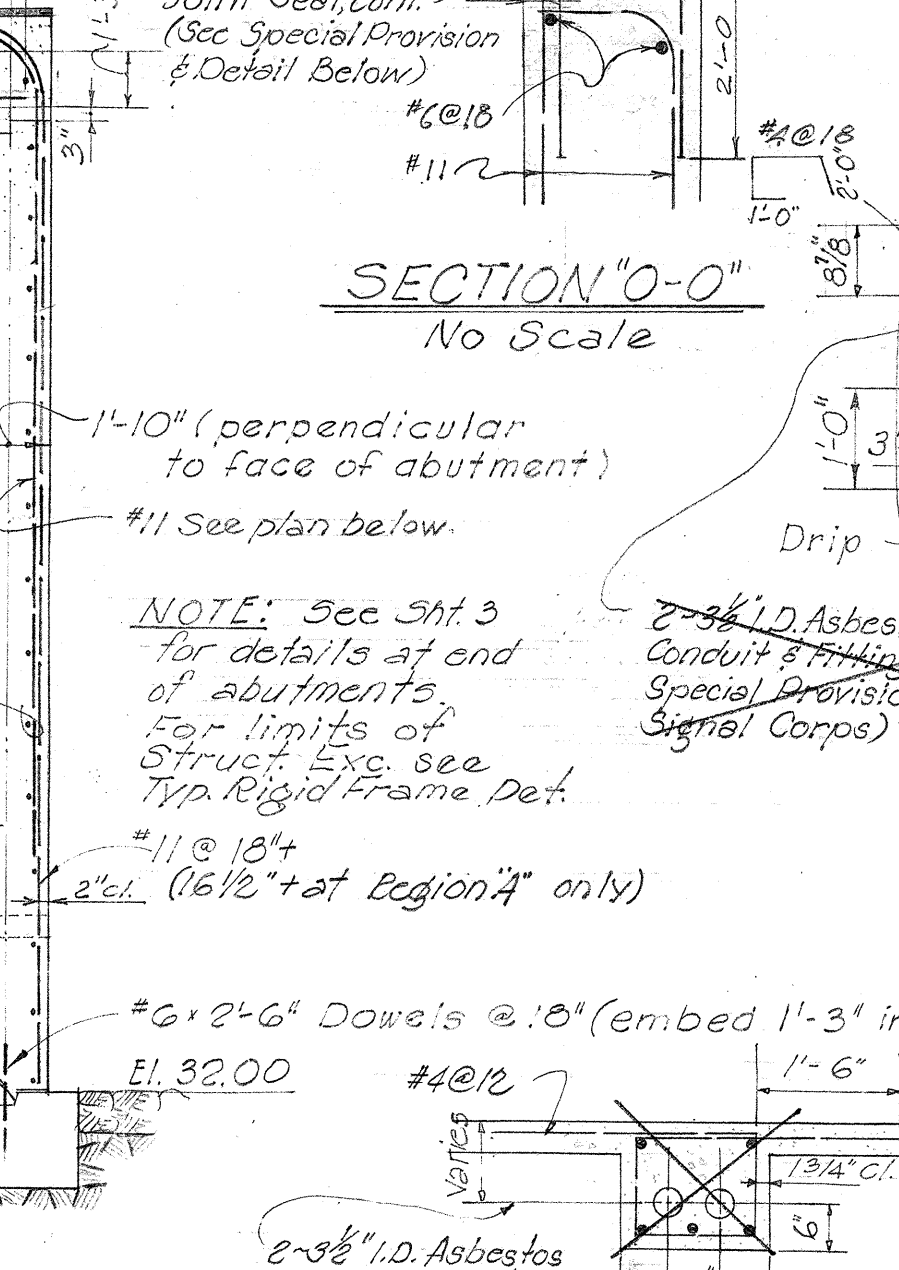
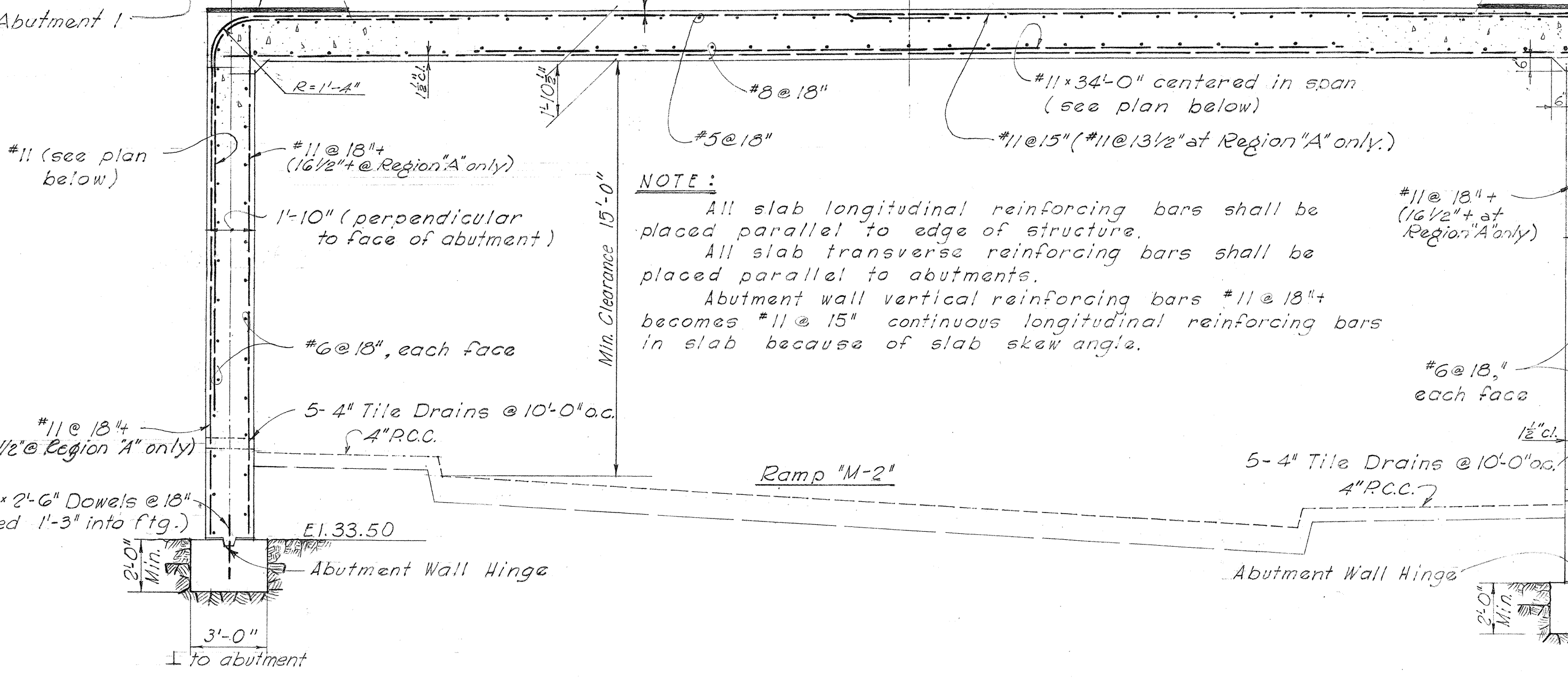
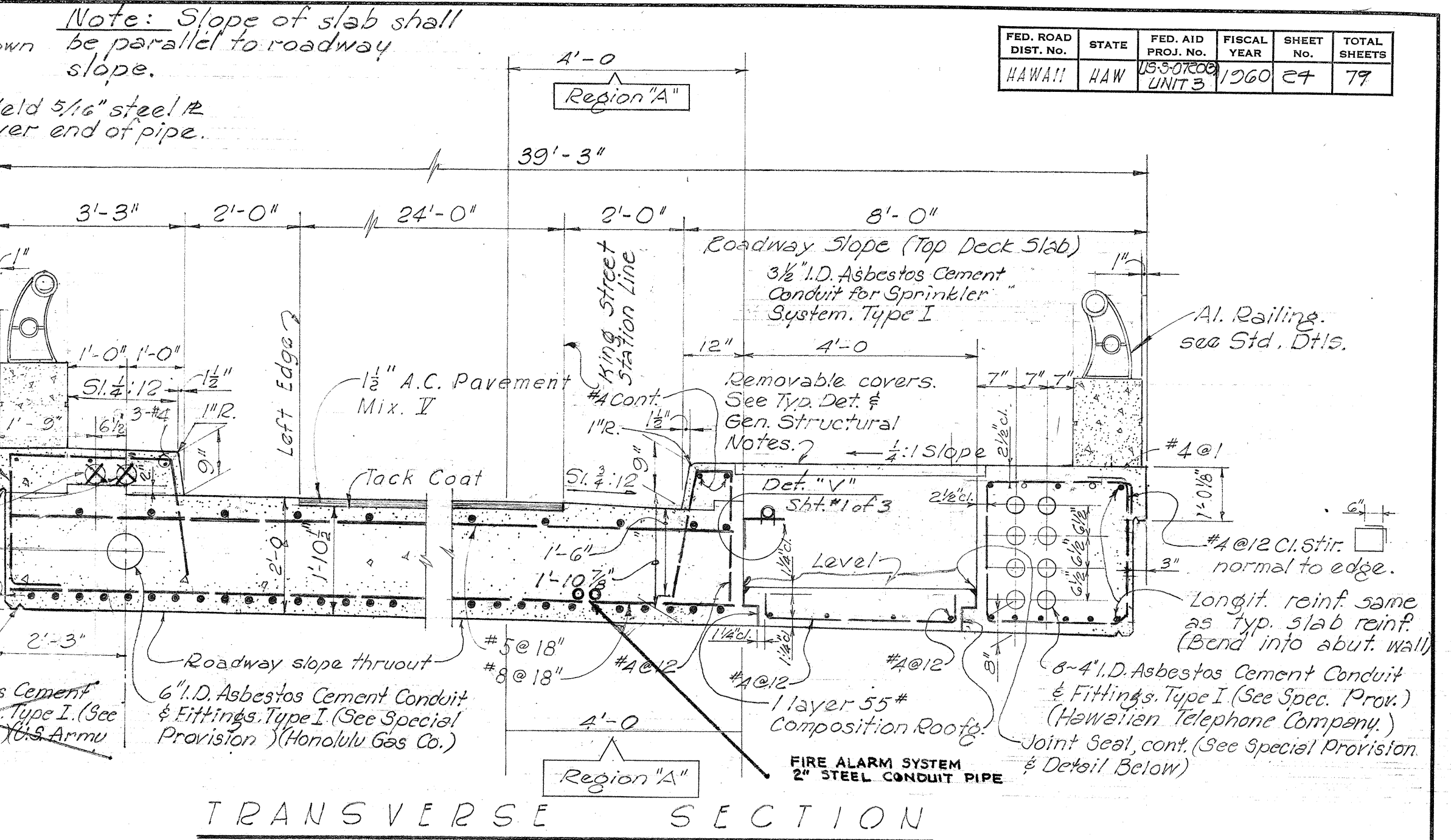
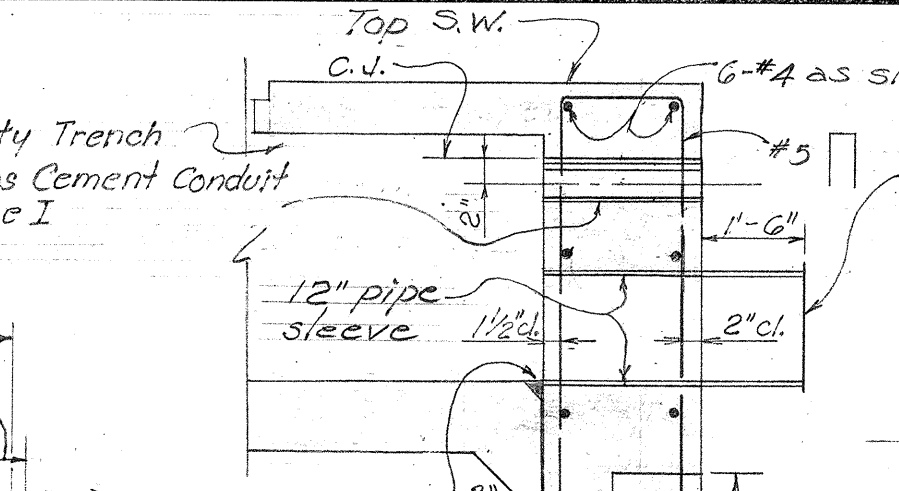
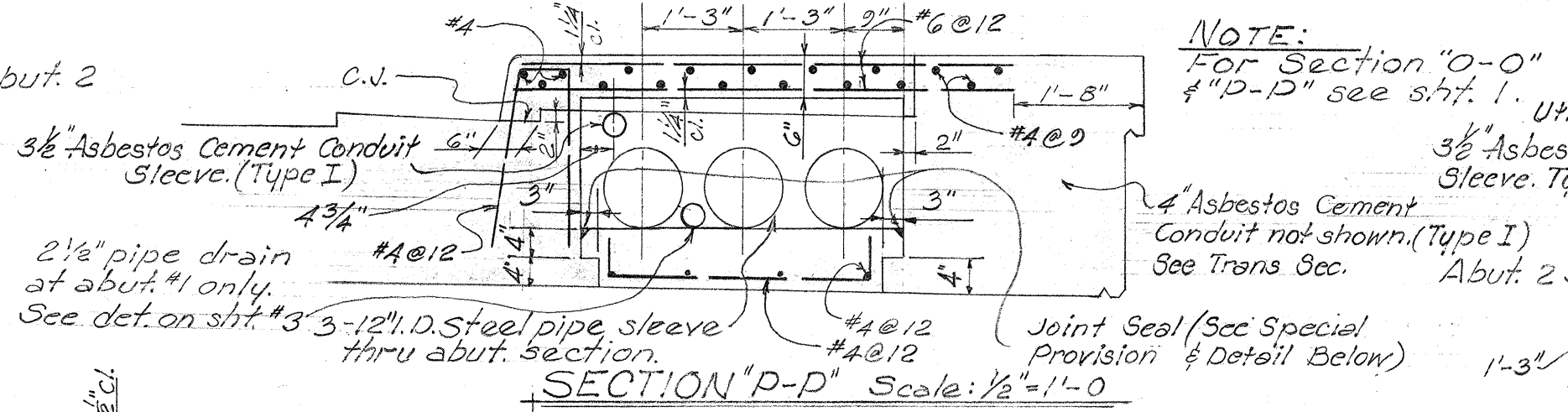
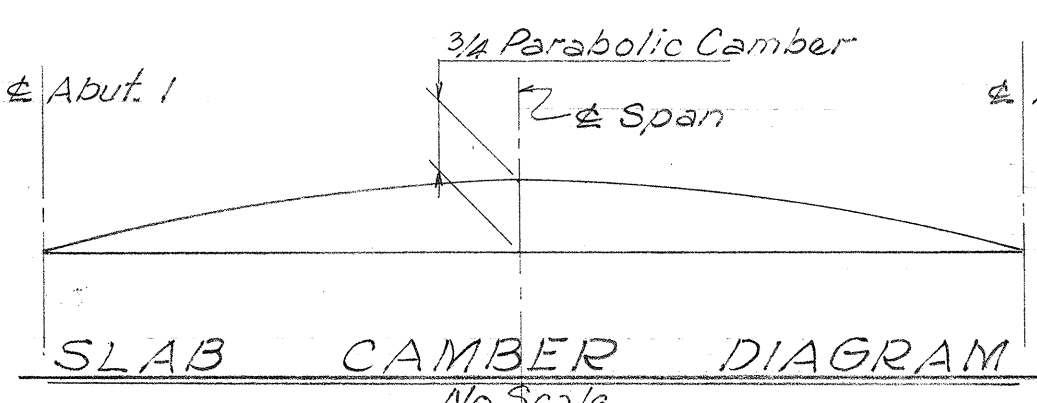
HAWAII STATE HIGHWAY DEPARTMENT
 STATE OF HAWAII

STRUCTURE "E"
PLAN AND PROFILE

MOANALUA ROAD US-5-0720(3) UNIT 3

5526.23

DATE: FEB. 1961
 SURVEY PLOTTED BY: H. LUCK
 DRAWN BY: H. LUCK
 CHECKED BY: GUY H. TAYLOR
 NOTE BOOK QUANTITIES CHECKED BY: TAYLOR



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STATE OF HAWAII

STRUCTURE "E"

SECTIONS

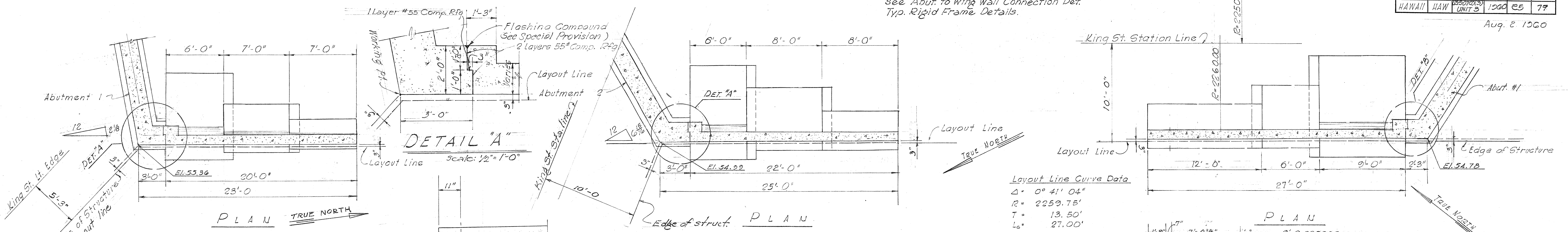
MOANALUA ROAD US-S-0720(3)UNIT3

SURVEY PLOTTED BY: H. LUCK
DATE: FEB 1967
DRAWN BY: BUCK
CHECKED BY: SYLVESTER
QUANTITIES CHECKED BY: WHITE
NOTE BOOK NO. TAYLOR

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW	15070(3)	1960	25	77

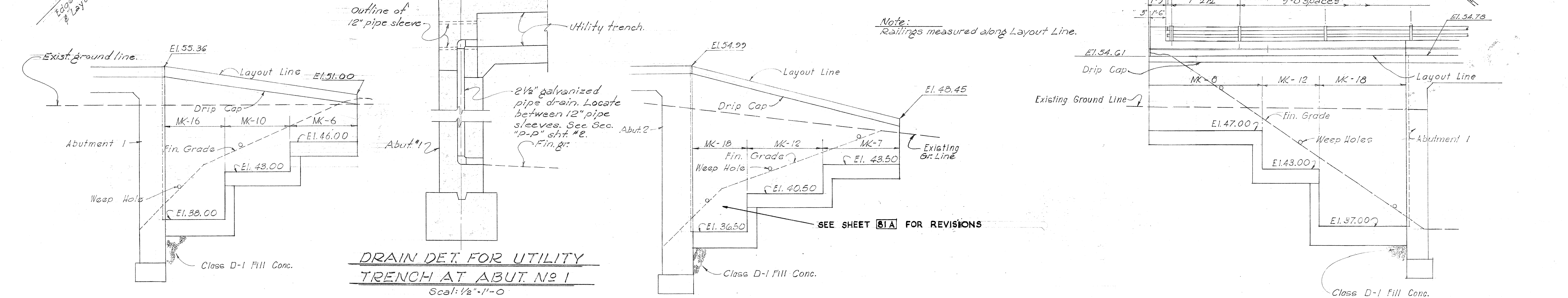
Aug. 2, 1960

Note: For Wing Wall and Abutment Reinf. see Abut. to Wing Wall Connection Det. Typ. Rigid Frame Details.



Layout Line Curve Data
 $\Delta = 0^\circ 41' 04''$
 $R = 2253.75'$
 $T = 13.50'$
 $L = 27.00'$

Note: Railings measured along Layout Line.



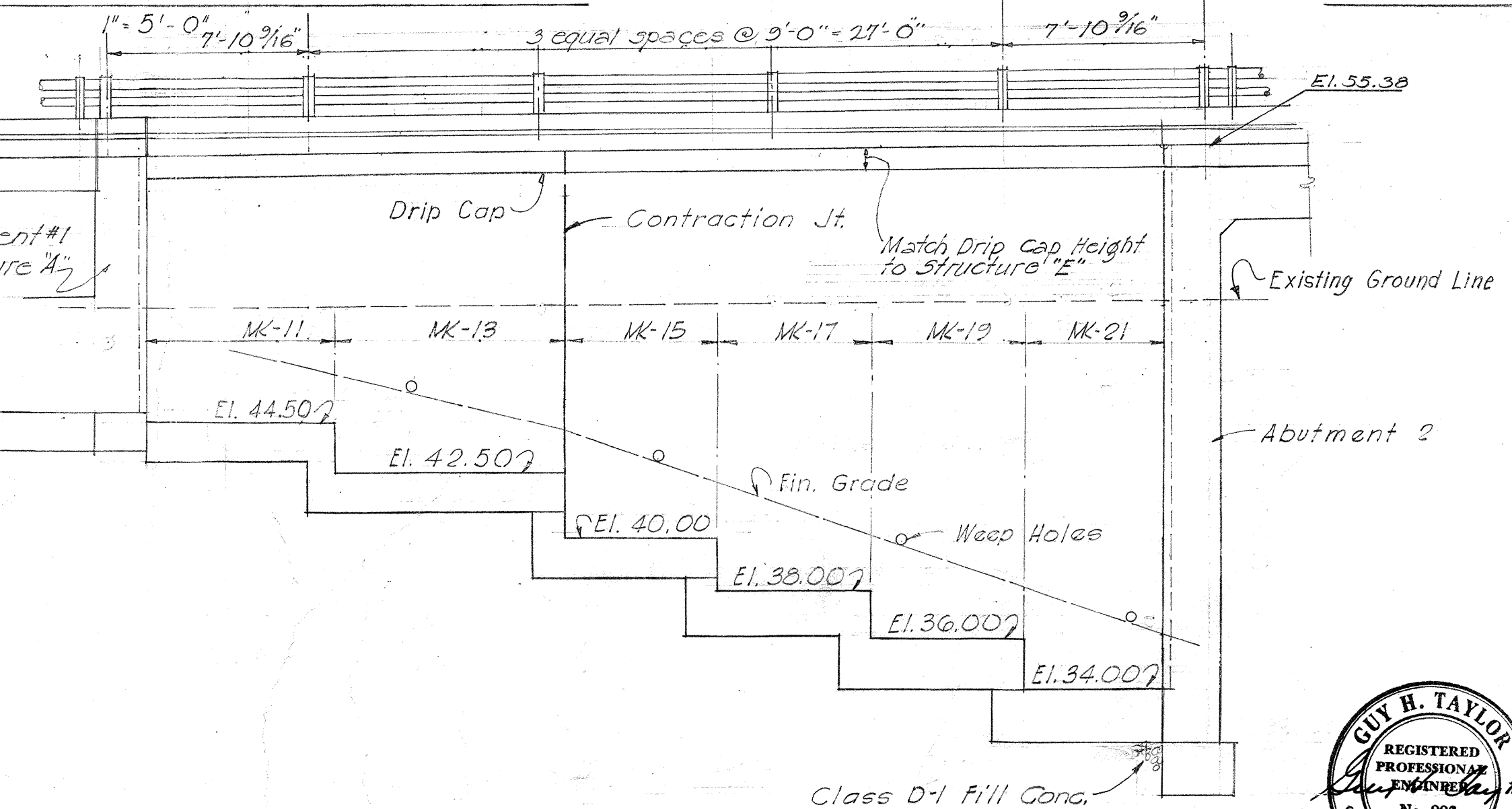
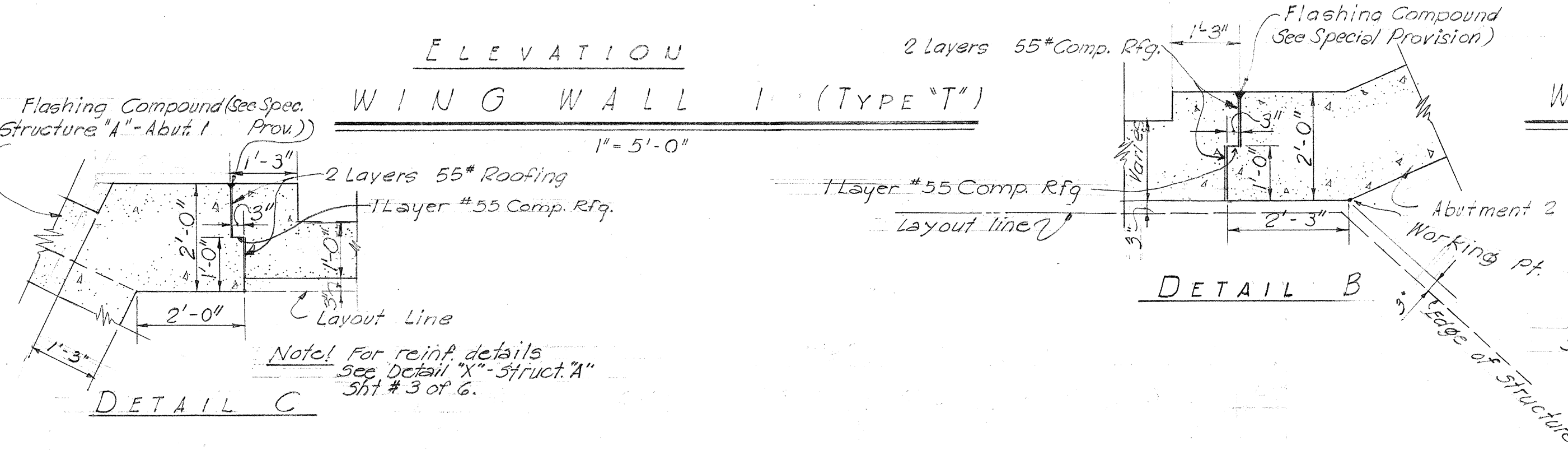
DRAIN DET. FOR UTILITY TRENCH AT ABUT. NO. 1
 Scale: 1/2" = 1'-0"

SEE SHEET 81A FOR REVISIONS

ELEVATION WING WALL 1 (TYPE "T")
 1" = 5'-0"

ELEVATION WING WALL 2 (TYPE "T")
 1" = 5'-0"

ELEVATION WING WALL 3 (TYPE "T")
 1" = 5'-0"



ELEVATION WING WALL 4 (TYPE "T")
 1" = 5'-0"

REFERENCE DRAWINGS
 RETAINING WALL DETAILS
 STD. DET. ALUMINUM RAIL.



HAWAII STATE HIGHWAY DEPARTMENT
 STATE OF HAWAII

STRUCTURE "E"
WING WALLS

MOANALUA ROAD US-8-0720(3) UNIT 3

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 Civil and Structural Engineers

SS 26.25

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