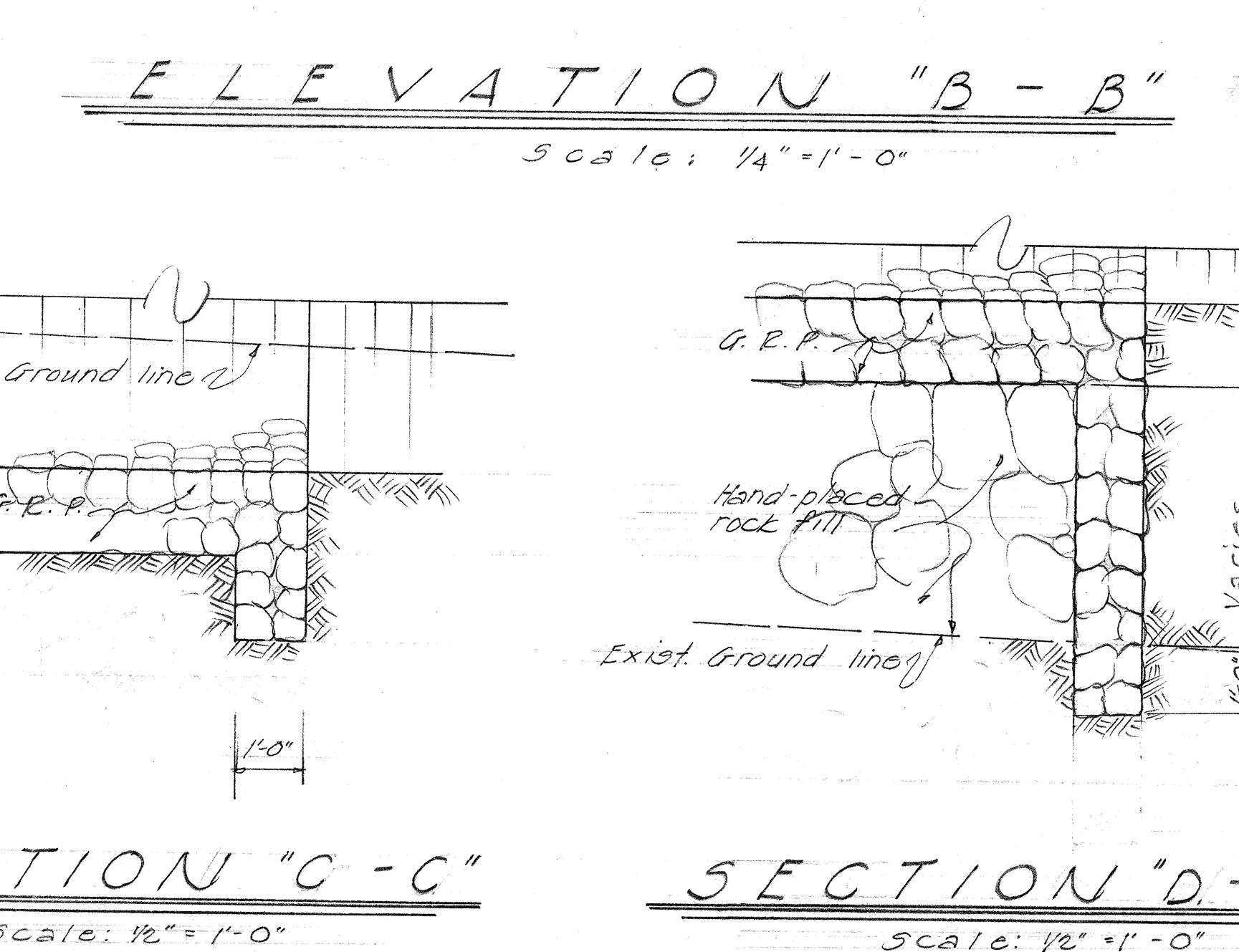
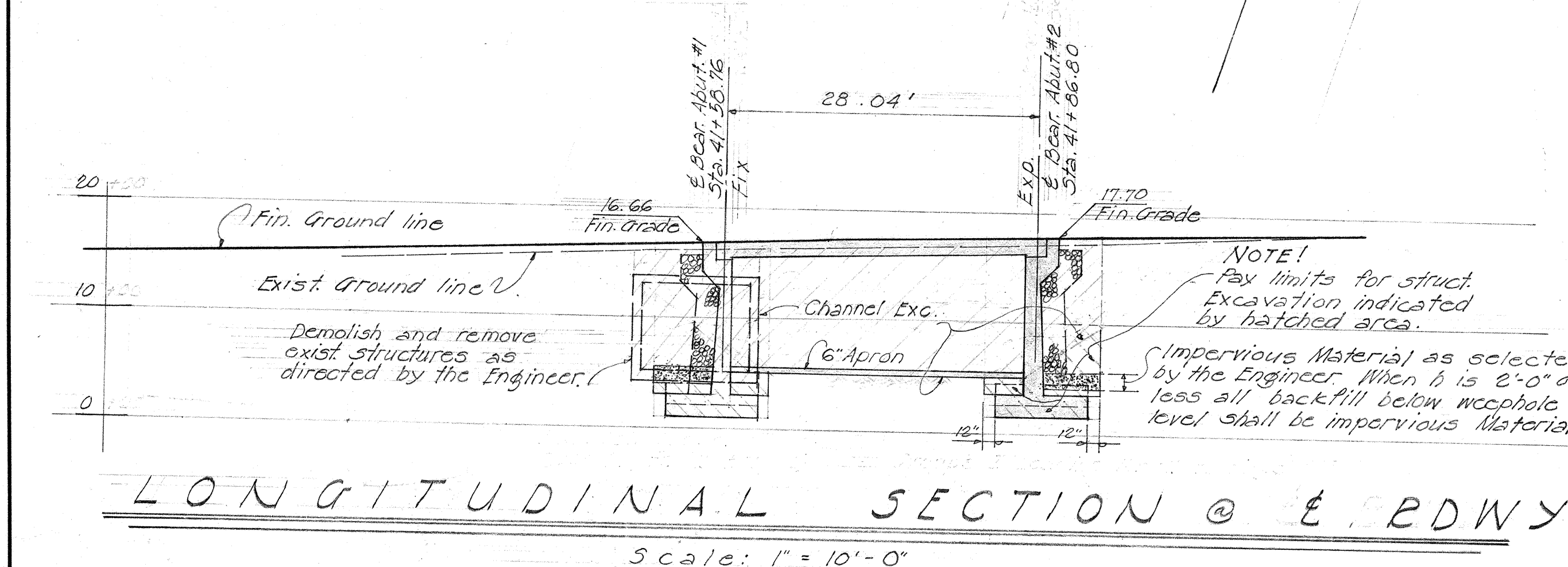
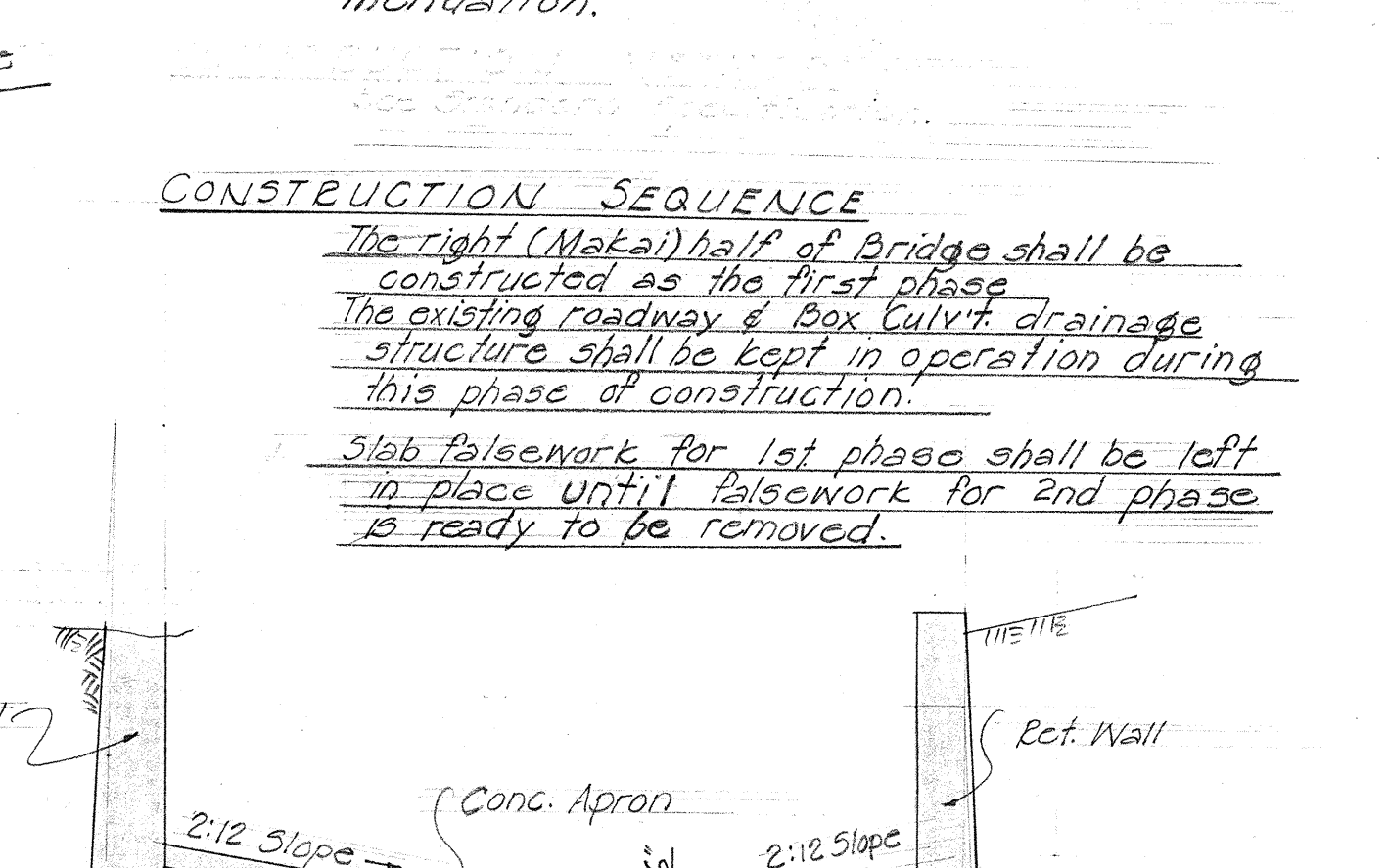
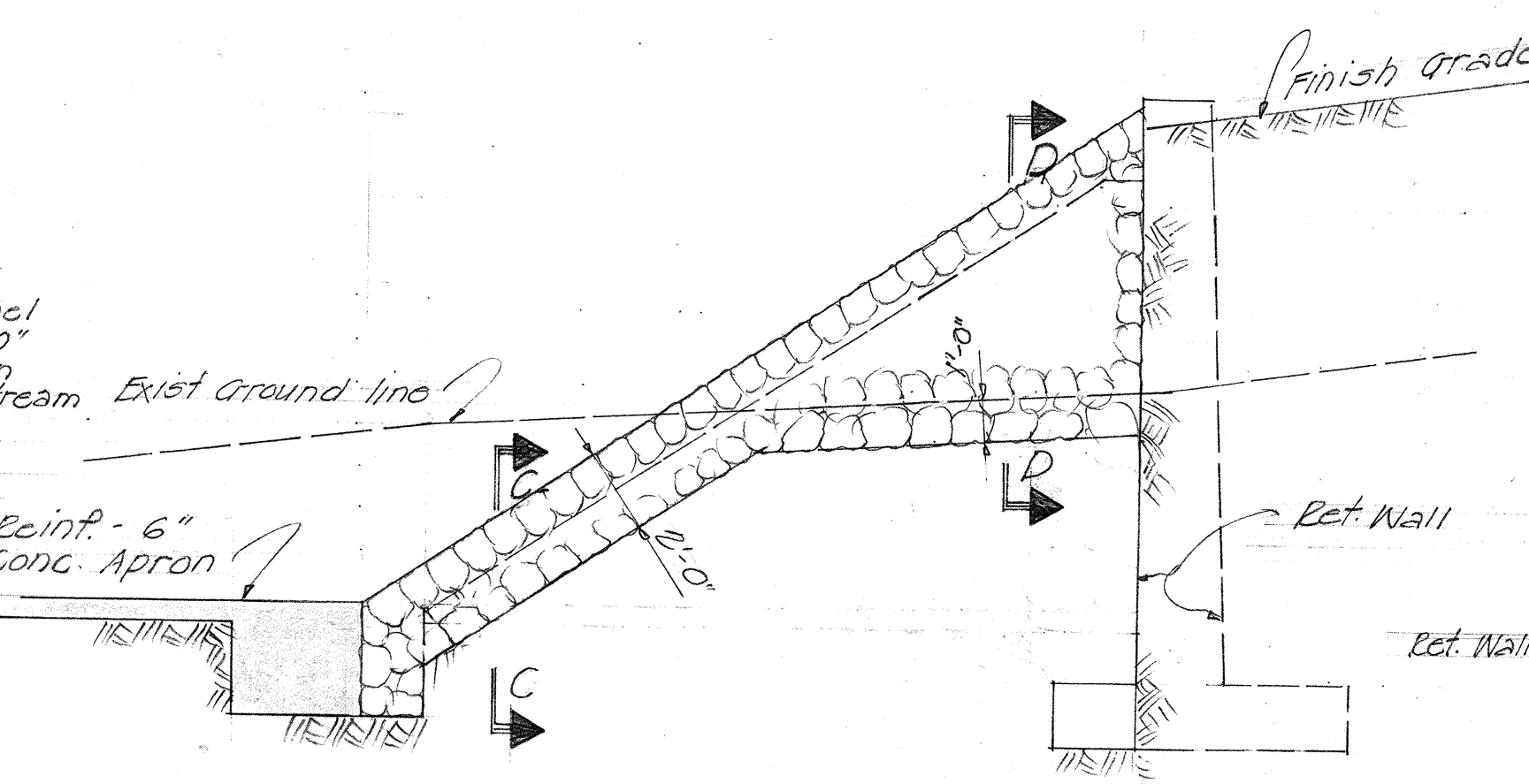
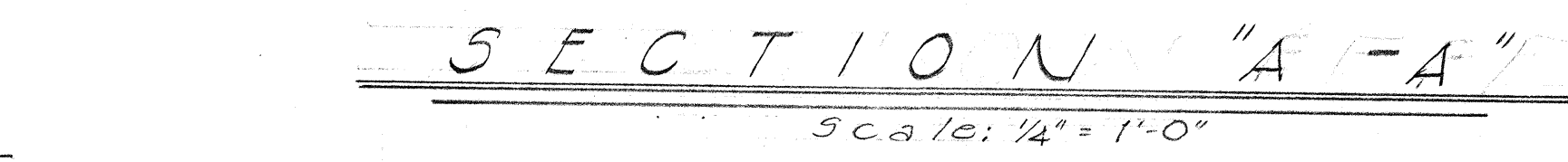
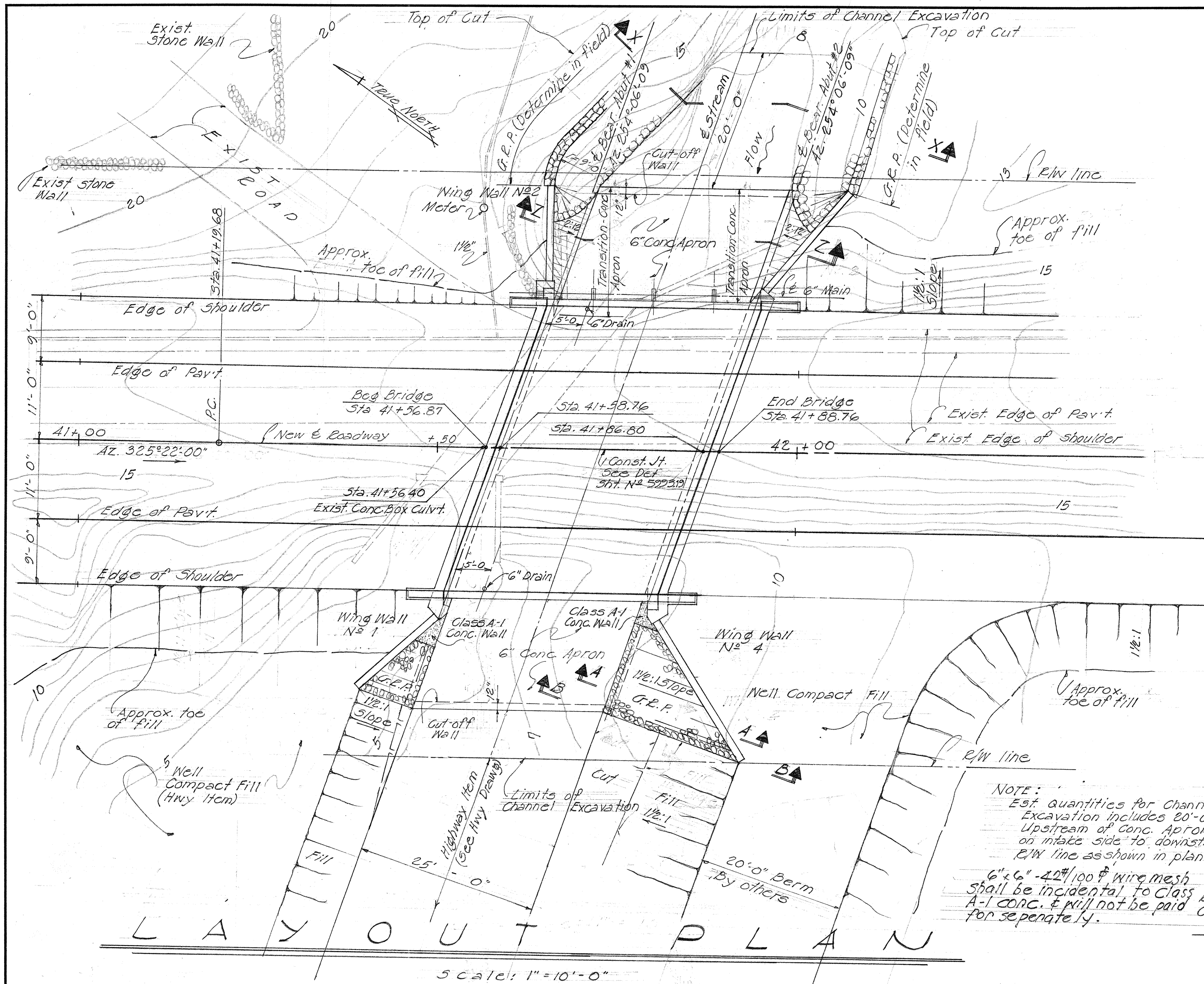




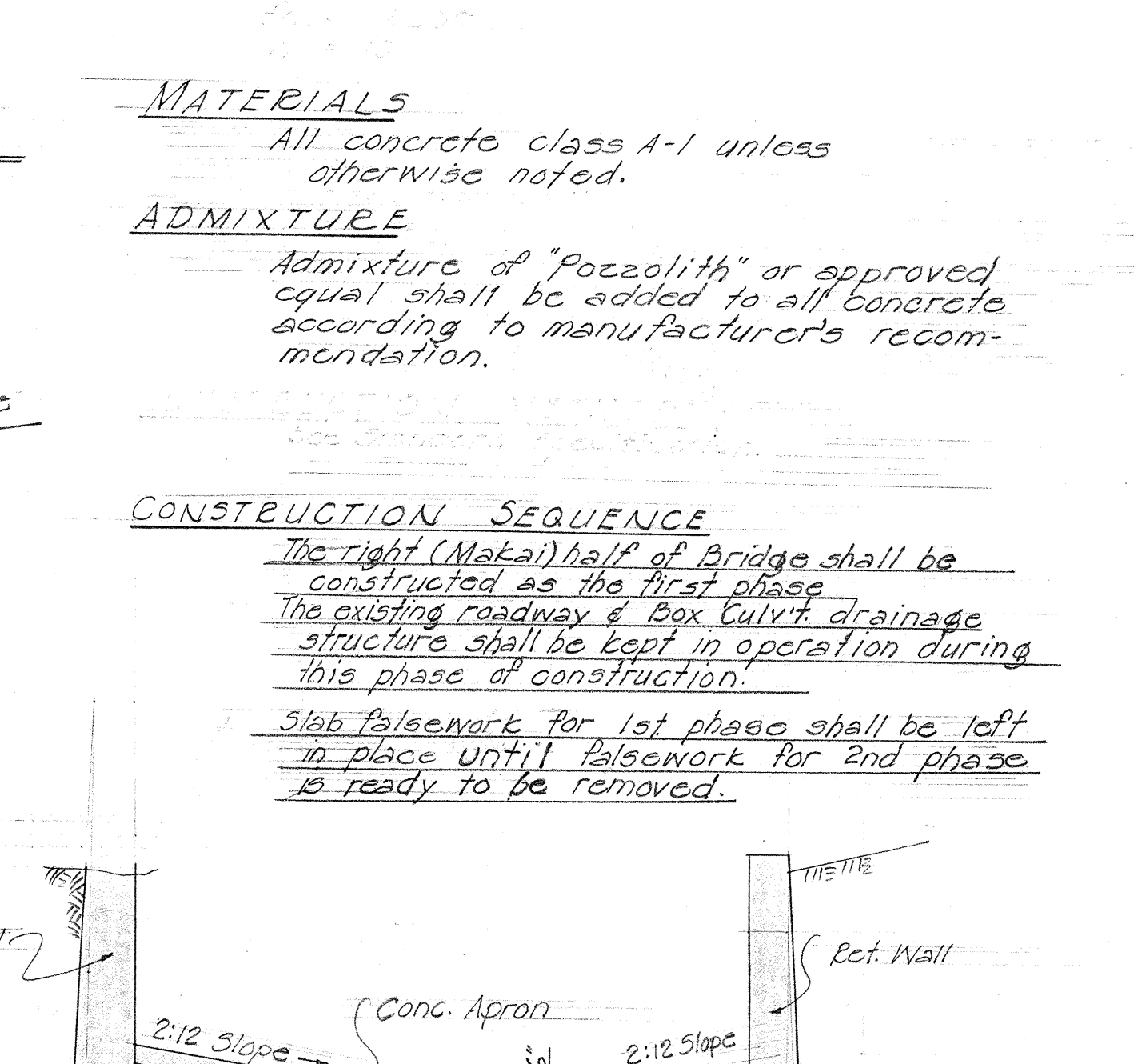
GENERAL NOTES

CONSTRUCTION METHOD
All backfills behind Abutments shall be complete in place before pouring concrete for the superstructure.
Sidewalk, curb and railing shall not be poured until after the falsework for the span has been released.

MATERIALS
All concrete class A-1 unless otherwise noted.

AD MIXTURE
Admixture of "Pozzolite" or approved equal shall be added to all concrete according to manufacturer's recommendation.

CONSTRUCTION SEQUENCE
The right (Makai) half of Bridge shall be constructed as the first phase.
The existing roadway & Box Culvert drainage structure shall be kept in operation during this phase of construction.
Slab falsework for 1st phase shall be left in place until falsework for 2nd phase is ready to be removed.



ESTIMATED QUANTITIES

Class A-1 Conc.	Lump Sum (310cy)
Reinf. Steel	Lump Sum (26,600#)
Struct. Exc.	300 c.y.
Filter Material	85 c.y.
Grouted Public Paving	45 c.y.
A.C. Pavt. Mix II	7 tons
Tack Coat	20 gal.
Channel Exc.	575 c.y.
Rock Fill	20 c.y.

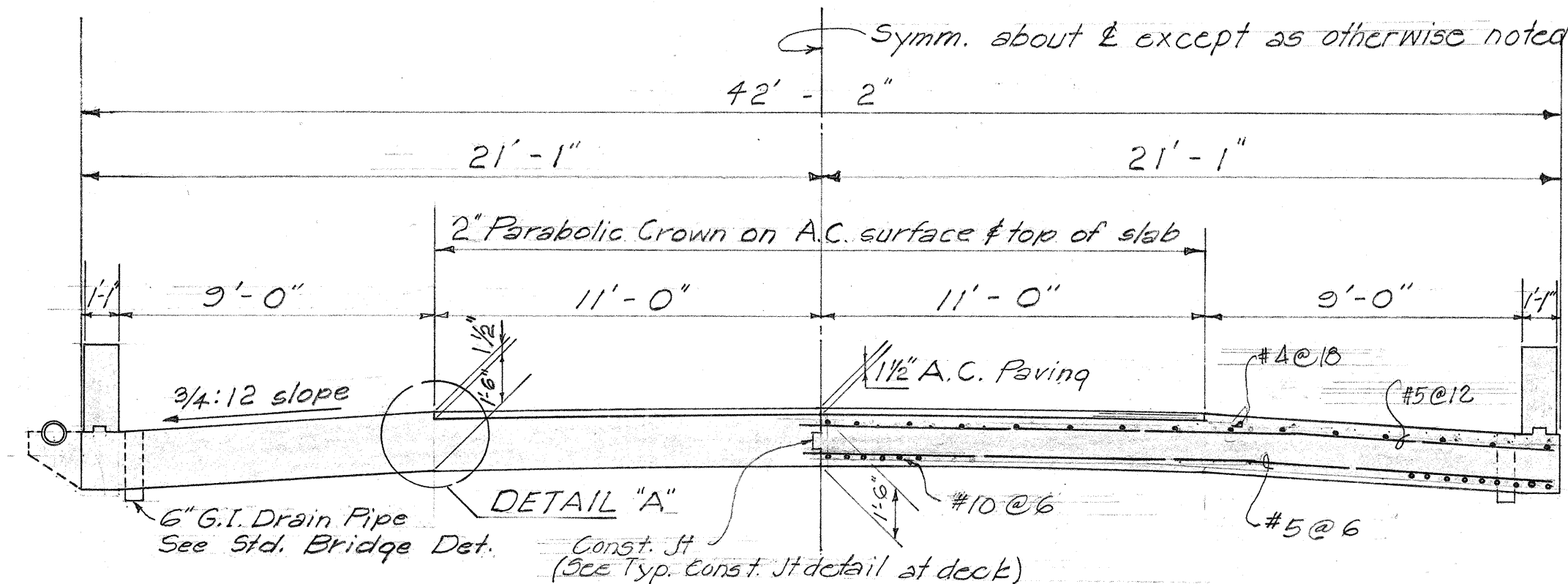
TERRITORIAL HIGHWAY DEPARTMENT
TERRITORY OF HAWAII

MAKAHUNA BRIDGE
STA 41+56.87 to STA 41+88.76
Kawaihae Road PROJ. S-02600 (1)
JAN. 1959

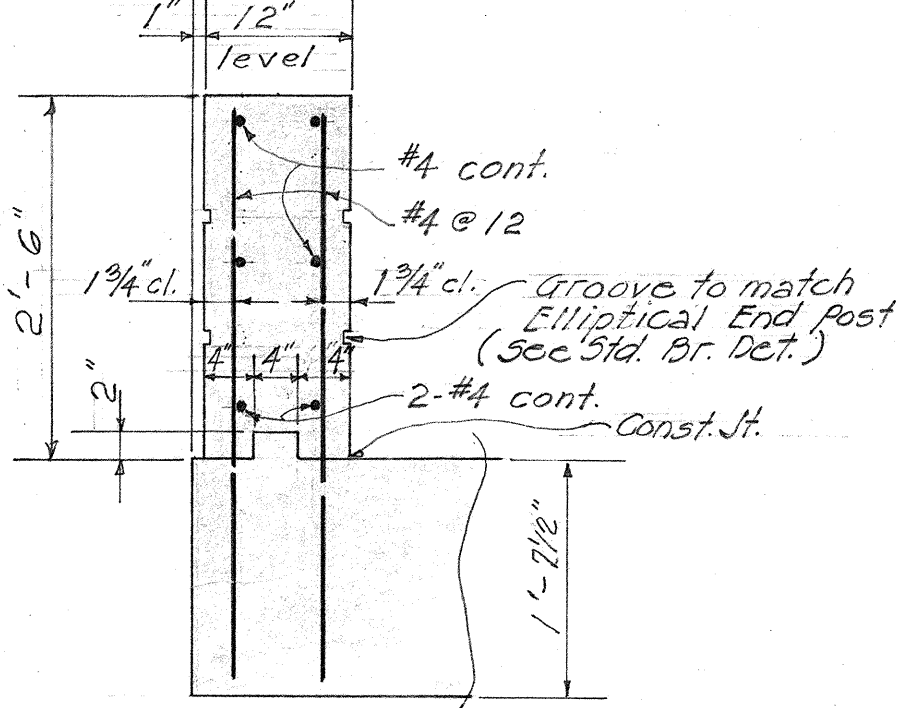
DESIGNED BY: [Signature]
DRAWN BY: [Signature]
CHECKED BY: [Signature]
DATE: 1-22-59

ORIGINAL PLAN NO. [Blank]
NOTE BOOK NO. [Blank]

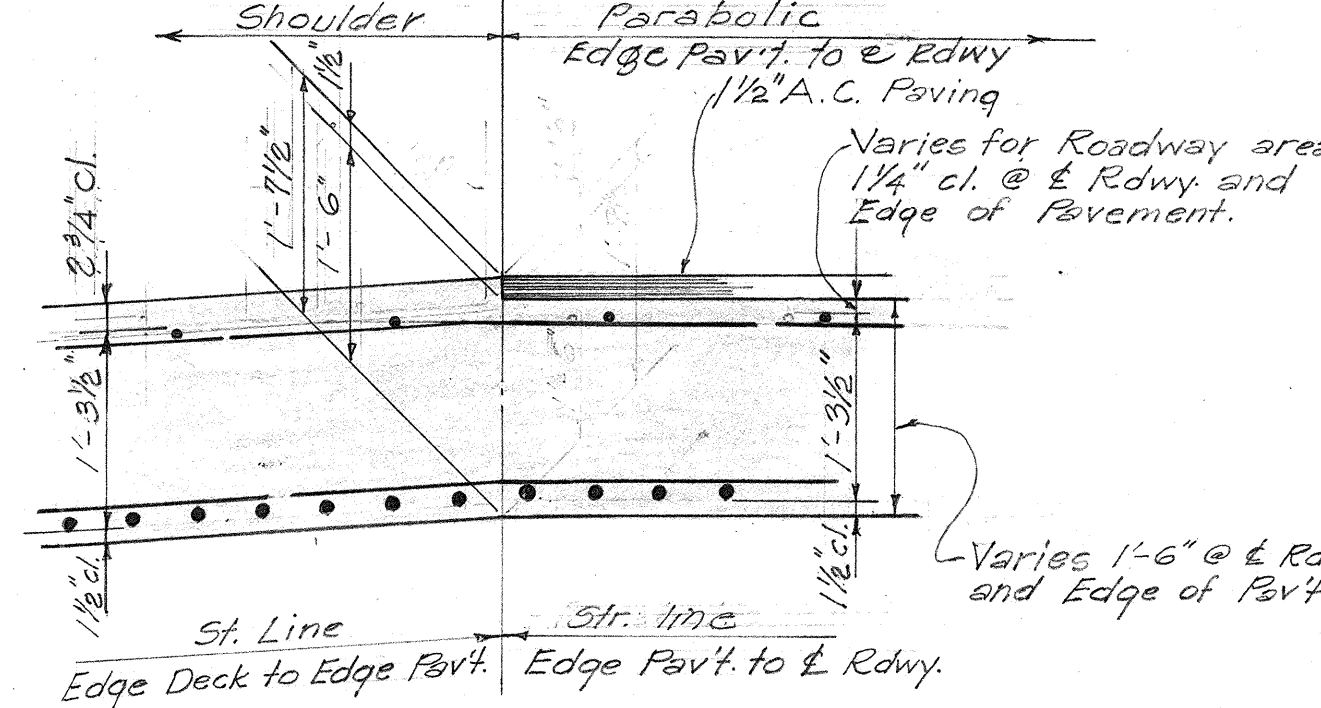
FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW	5-0260	1959	19	38



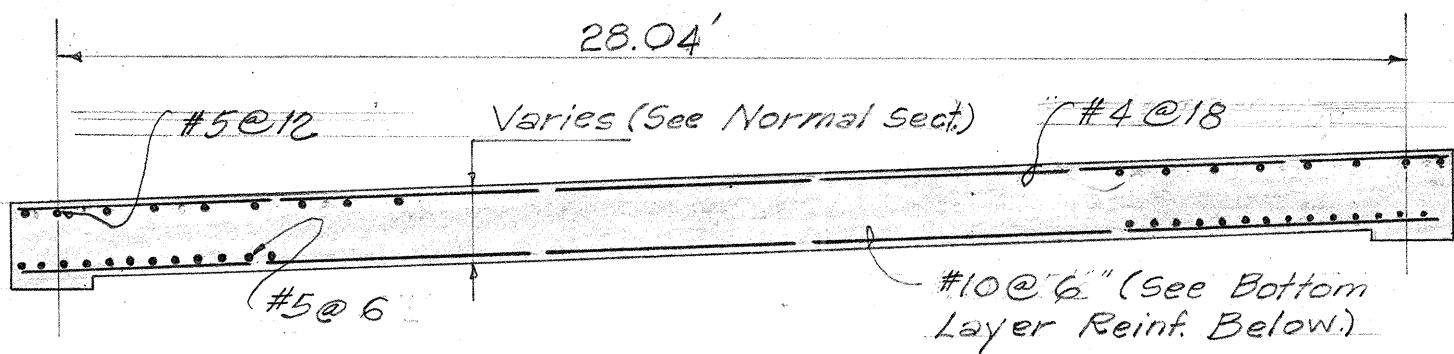
NORMAL SECTION SCALE: 1/4" = 1'-0"



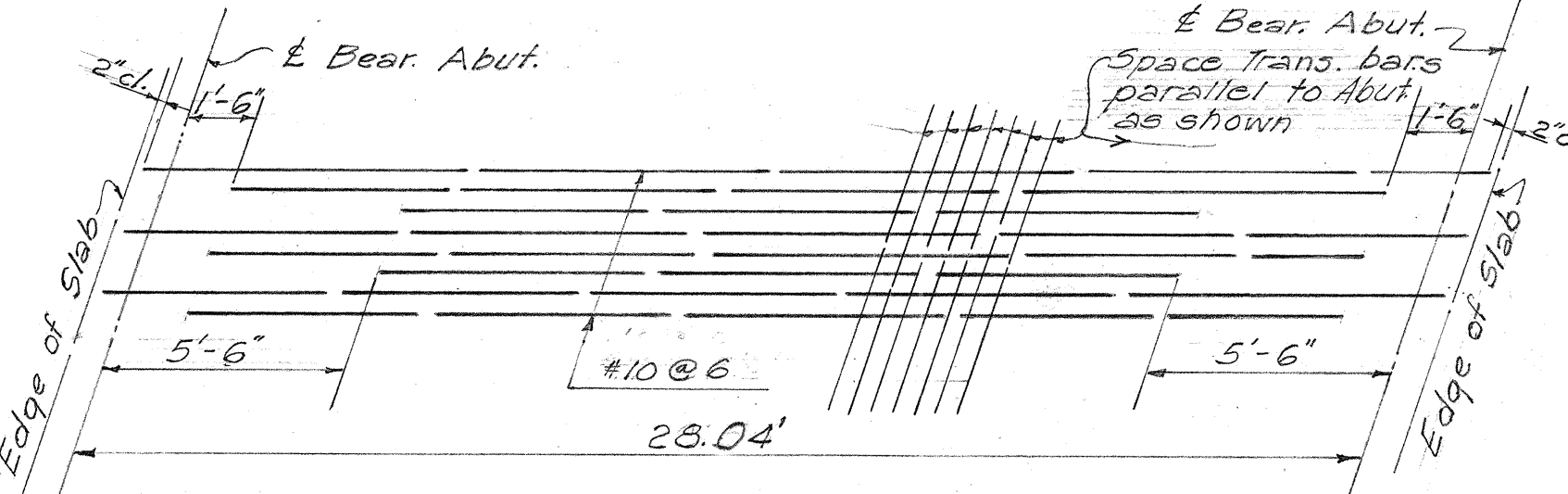
TYP. RAILING DETAIL Scale: 3/4" = 1'-0"



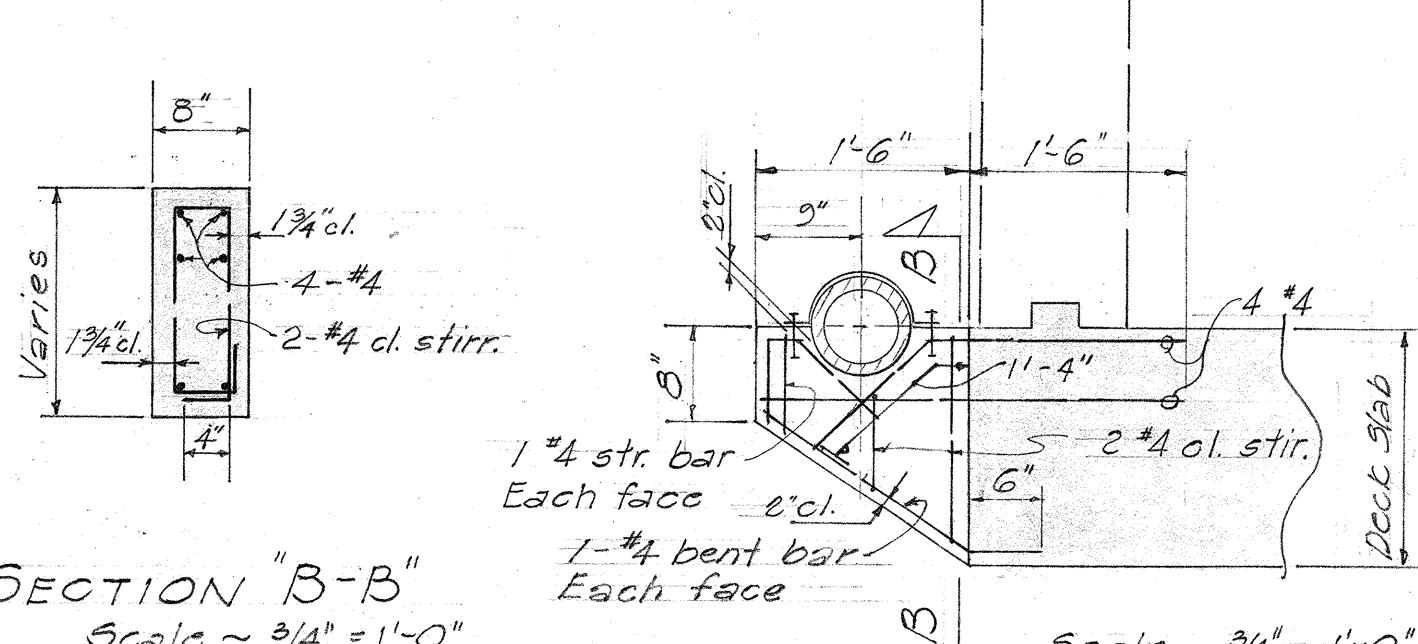
DETAIL "A" (SHOWING SLAB REINF. AT EDGE PAV'T) Scale: 3/4" = 1'-0"



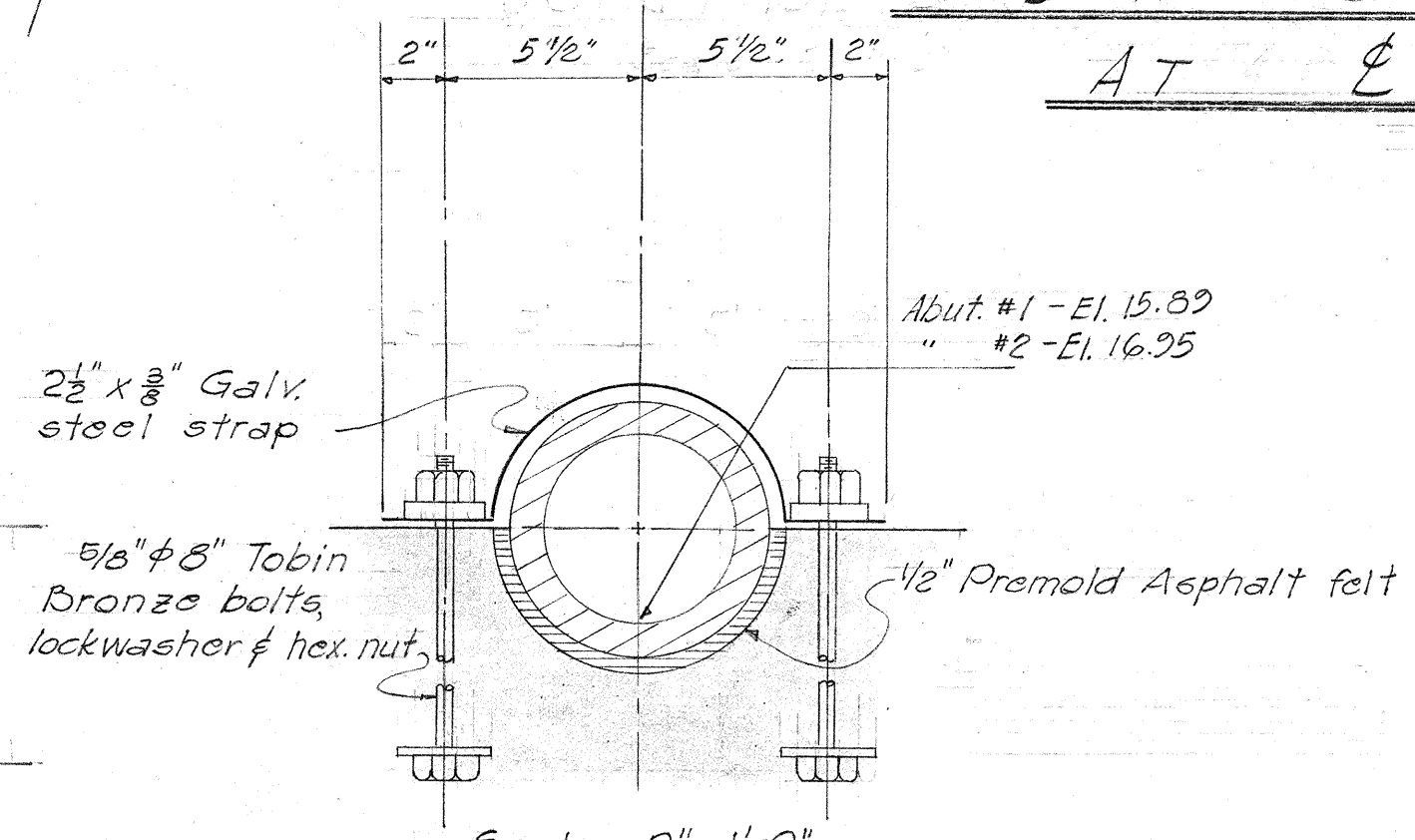
LONG REINF. SECTION Scale: 1/4" = 1'-0"



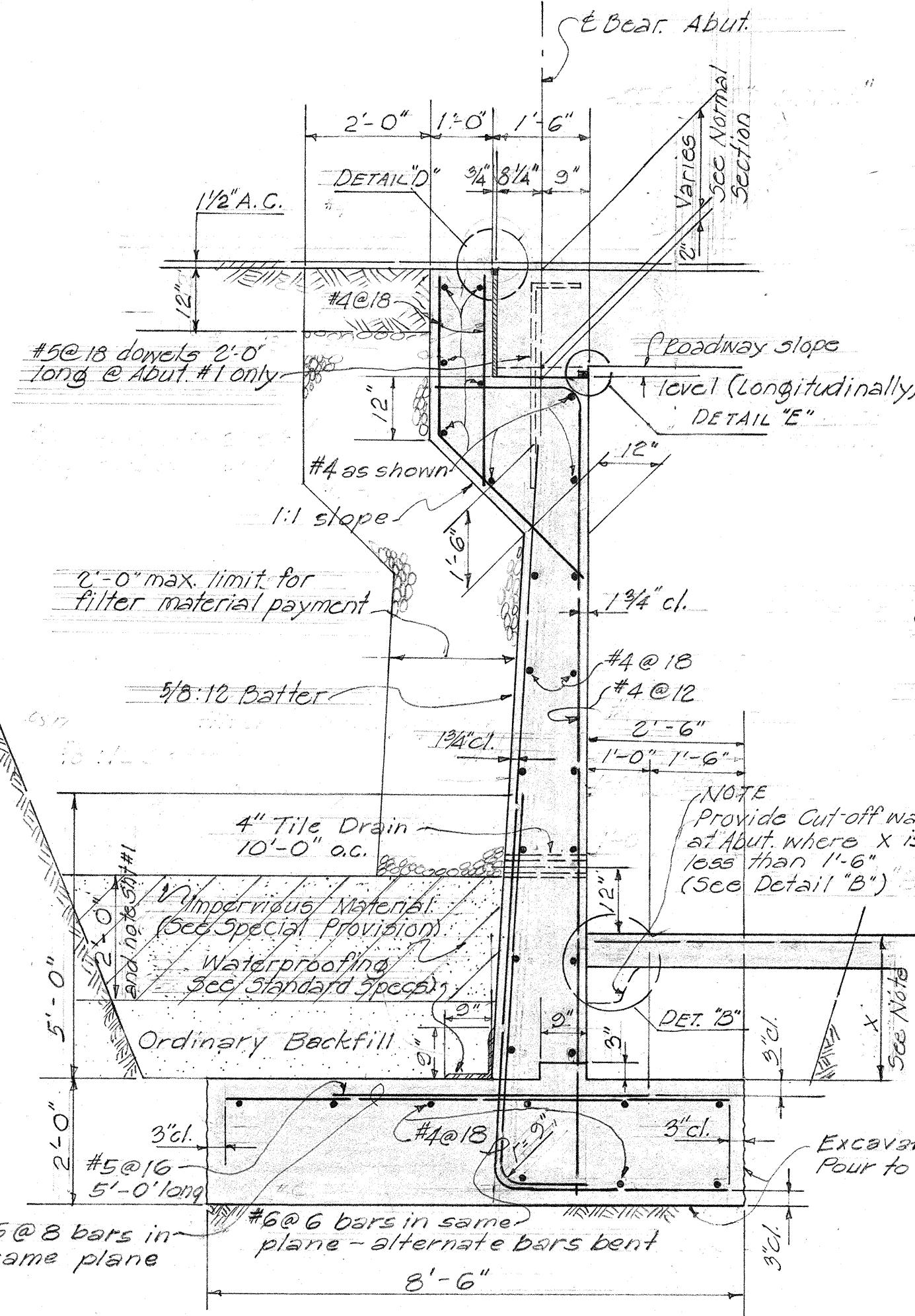
PART PLAN - BOTTOM REINF Scale: 1/4" = 1'-0"



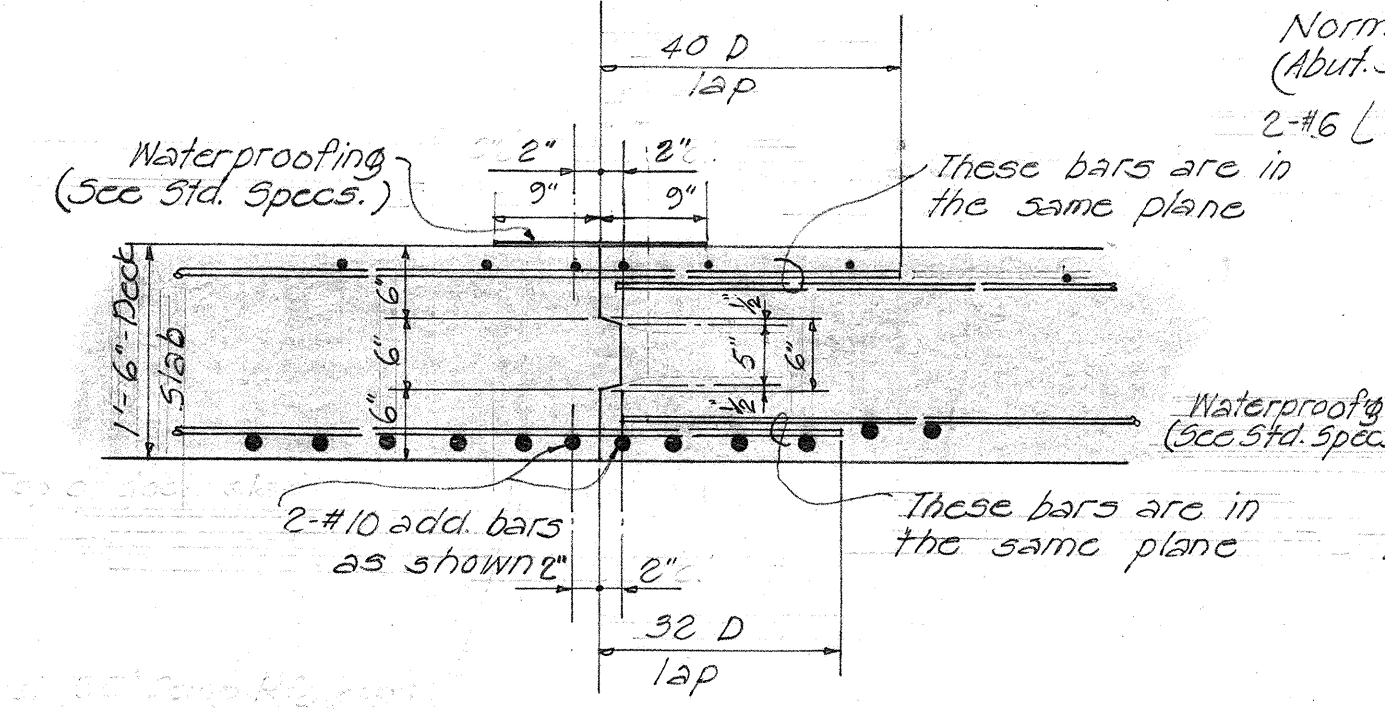
SECTION "B-B" Scale ~ 3/4" = 1'-0"



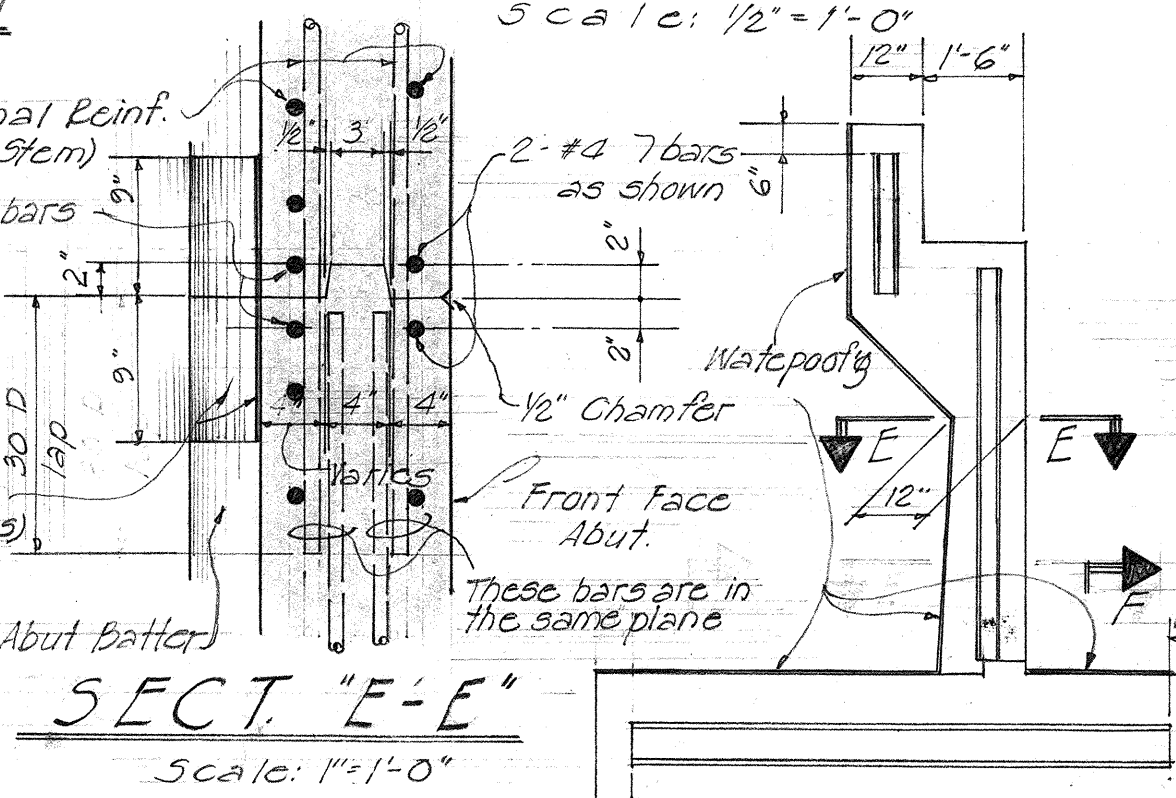
TYPICAL PIPE BRACKET DETAIL



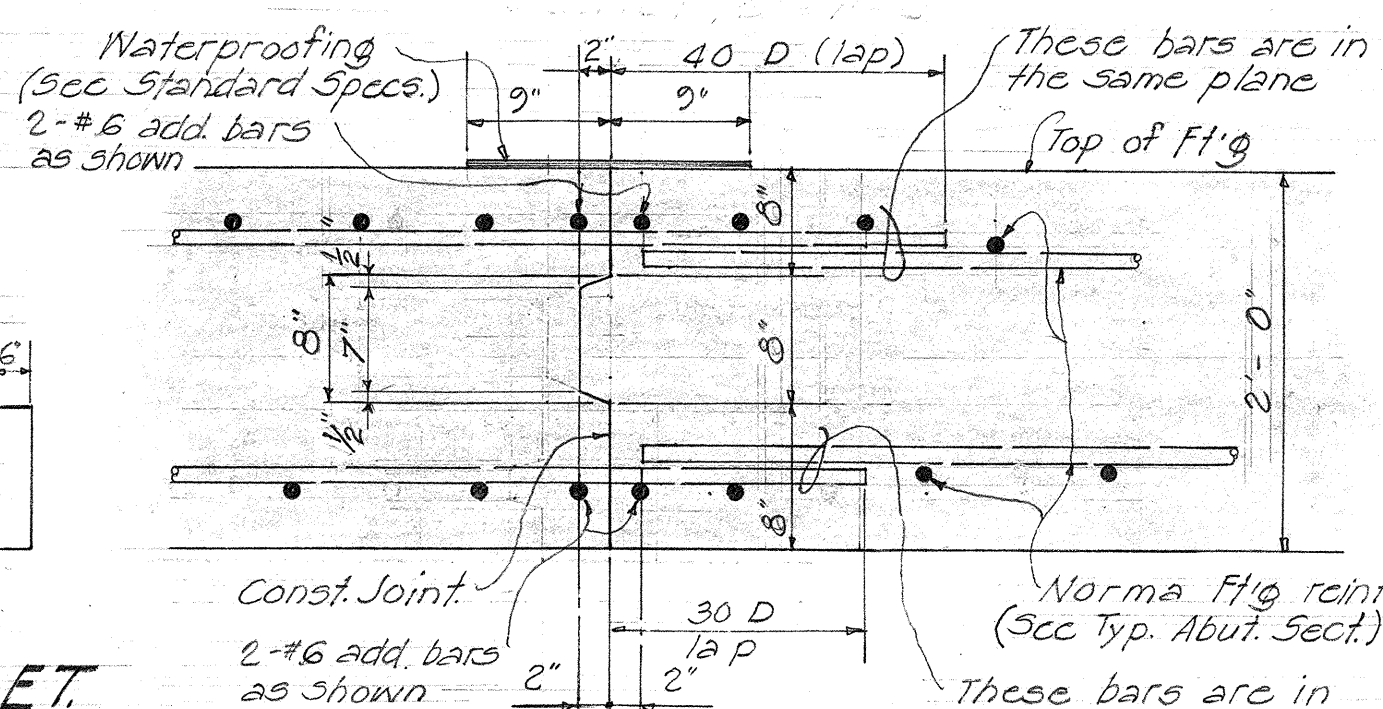
TYPICAL ABUTMENT SECTION Scale: 1/2" = 1'-0"



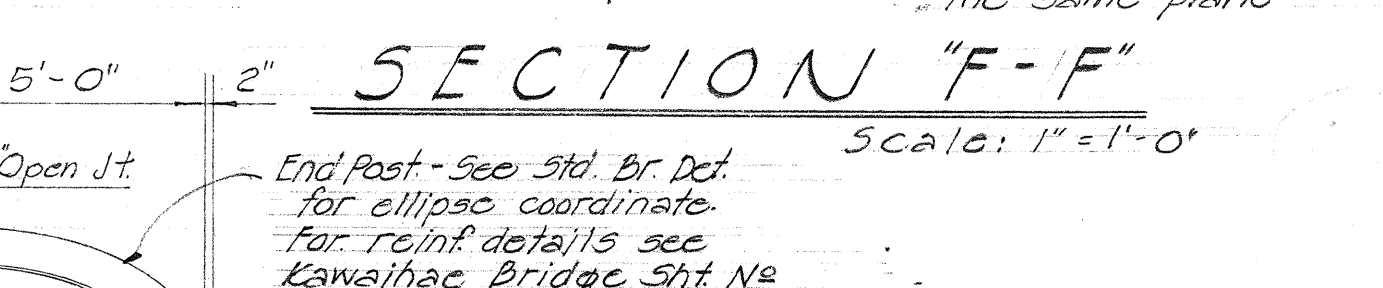
TYP. CONST. JOINT DETAIL AT DECK Scale: 3/4" = 1'-0"



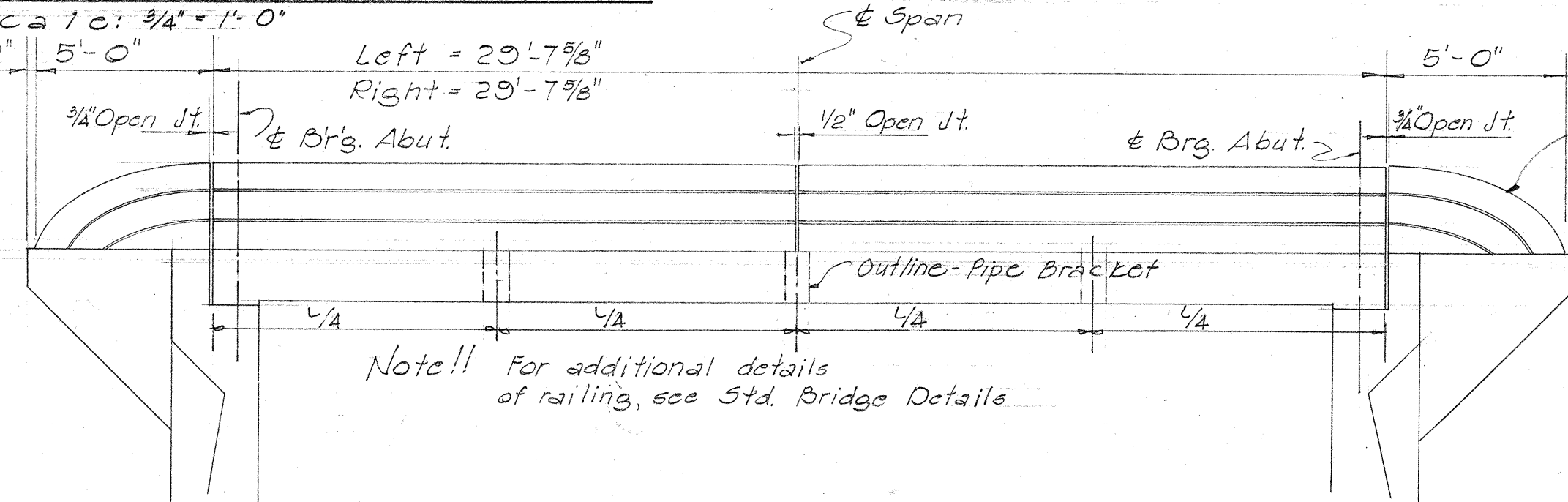
SECT. "E-E" Scale: 1" = 1'-0"



ABUT. JOINT DET.

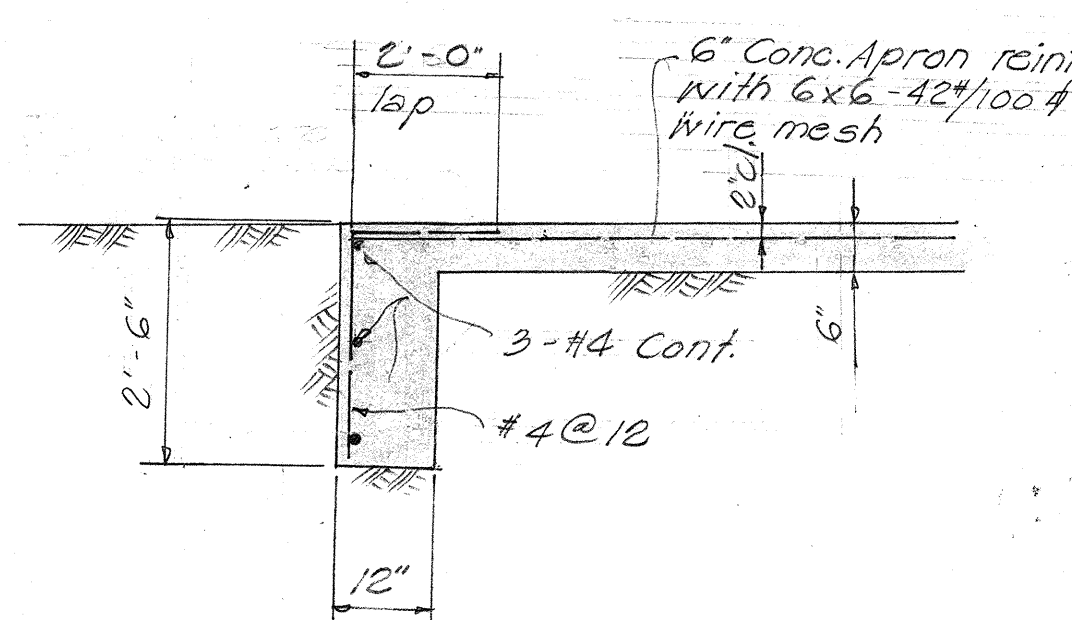


SECTION "F-F" Scale: 1" = 1'-0"



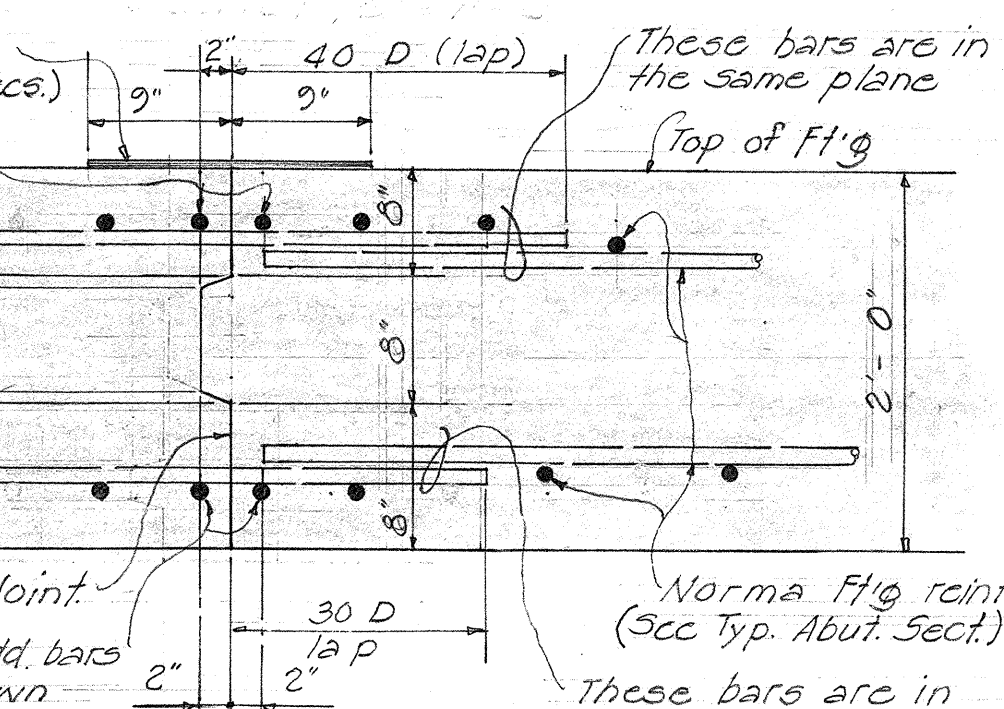
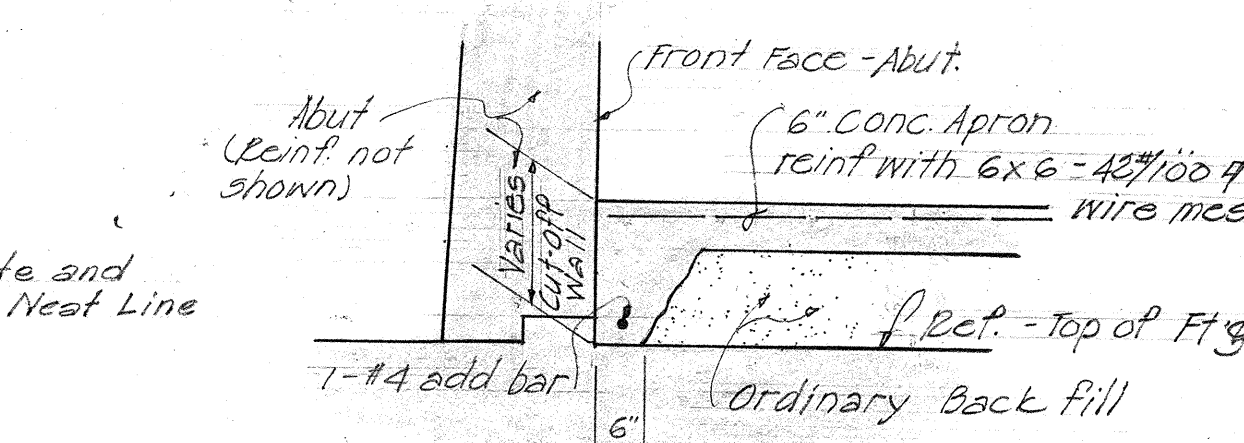
RAILING ELEVATION Scale ~ 1/4" = 1'-0"

TYP. END POST BRACKET DETAIL Scale: 3/8" = 1'-0"



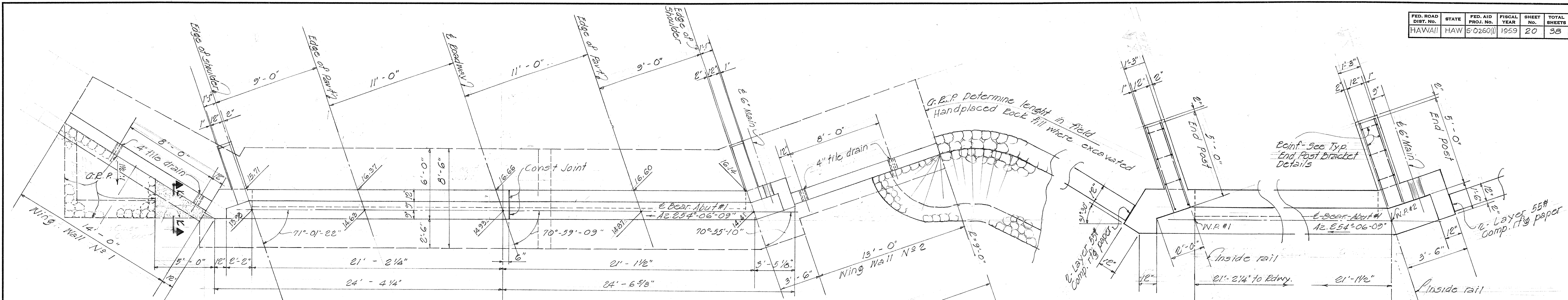
DETAIL "C" Scale: 1/2" = 1'-0"

DETAIL "E" TYP. JOINT DETAIL AT ABUTMENTS



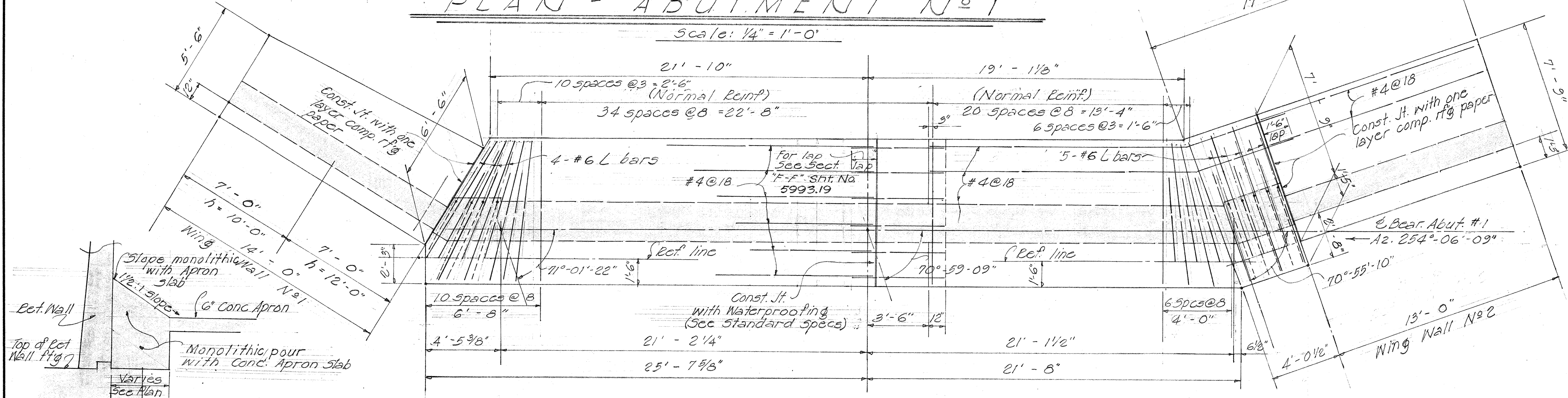
SECTION "F-F" Scale: 1" = 1'-0"

TERRITORIAL HIGHWAY DEPARTMENT
TERRITORY OF HAWAII
MAKAHUNA BRIDGE
STA 41+56.87 to STA 41+88.76
Kauai Road P.O. 5-0260(1)
JAN. 1959

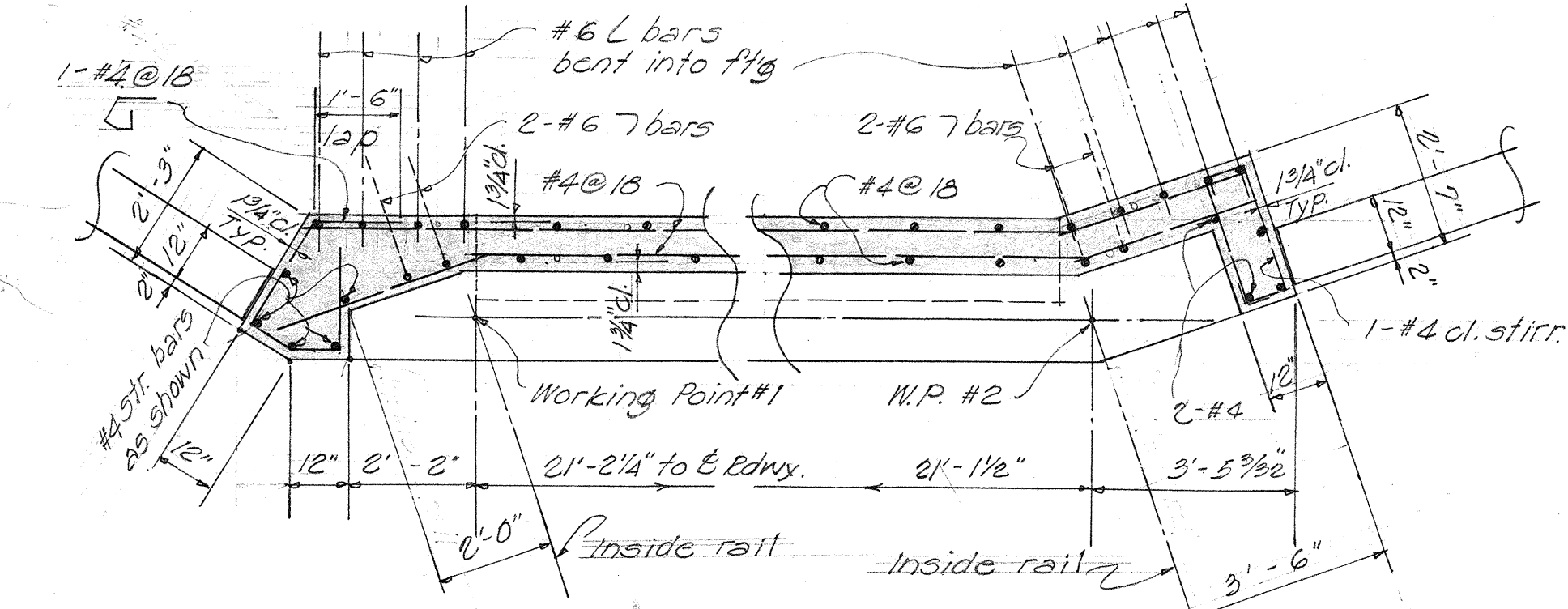


PLAN - ABUTMENT NO 1

PART PLAN - ABUT NO 1



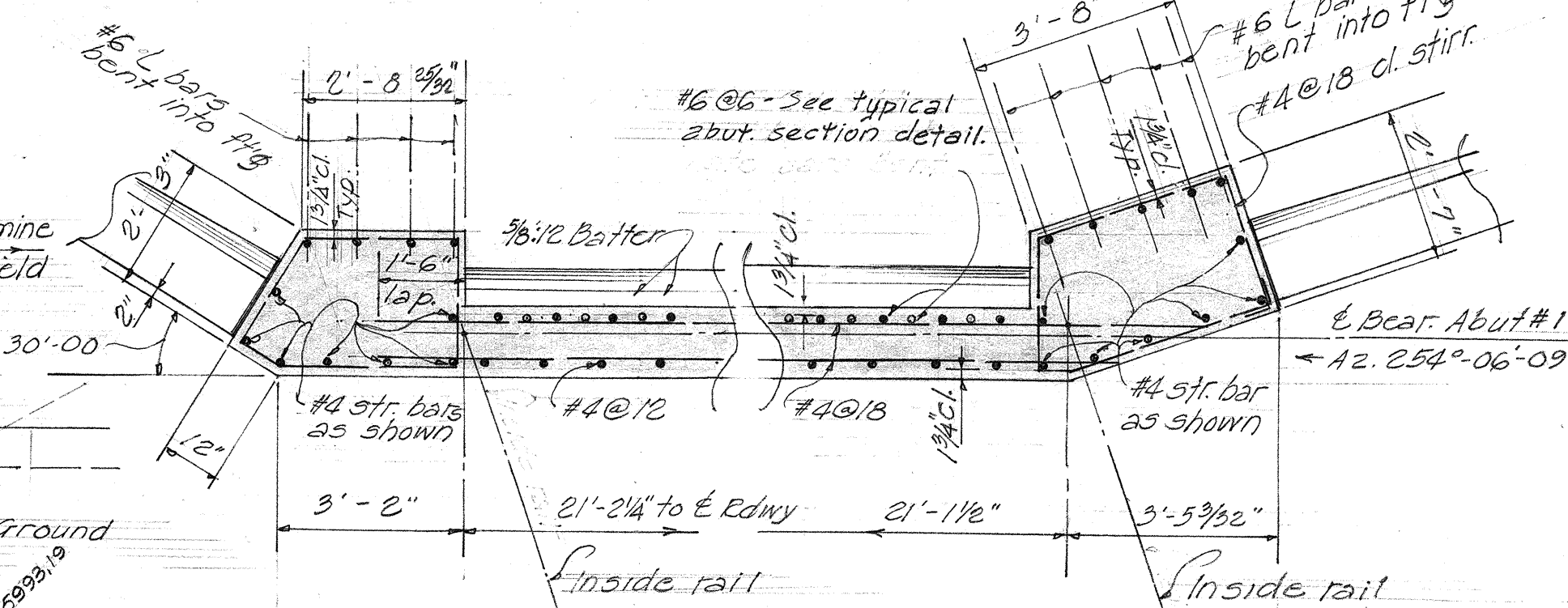
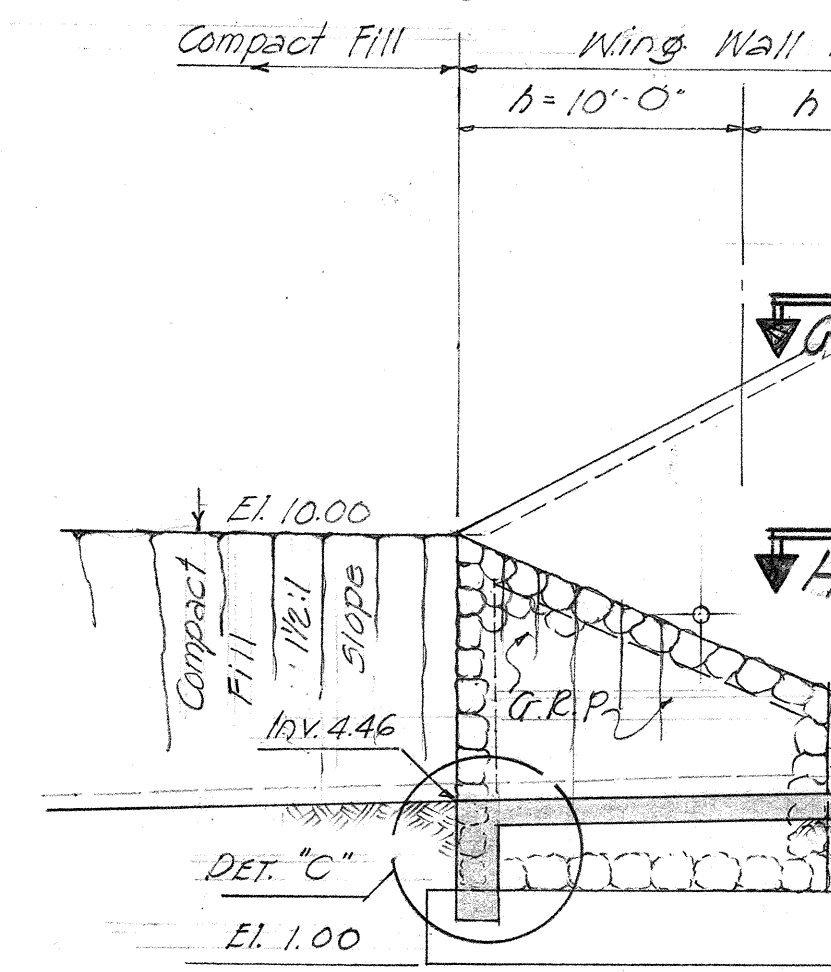
ABUT NO 1 FOOTING - TOP REINF. PLAN



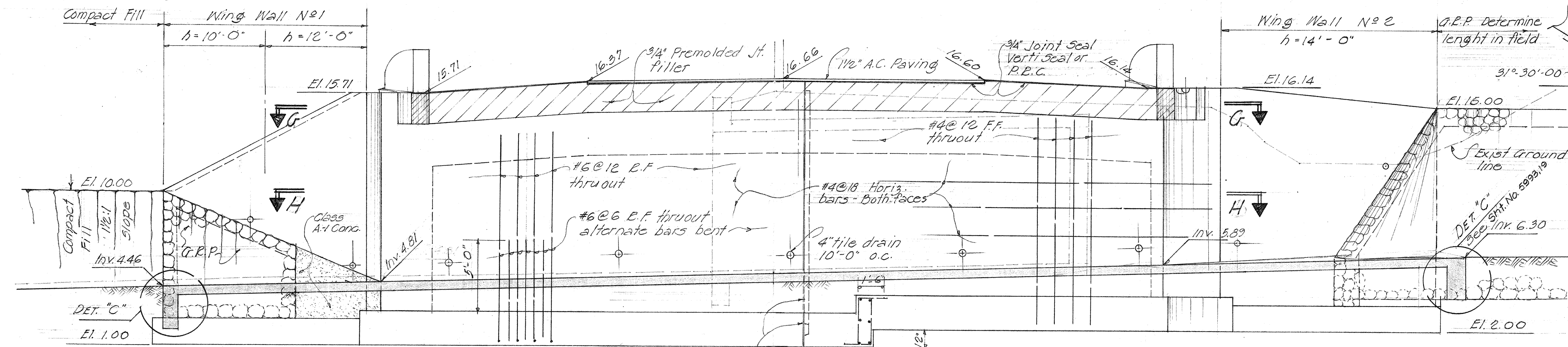
SECTION "G-G"

SECTION "K-K"

(Similar as Sect. "L-L")
Scale: 3/8" = 1'-0"



SECTION "H-H"



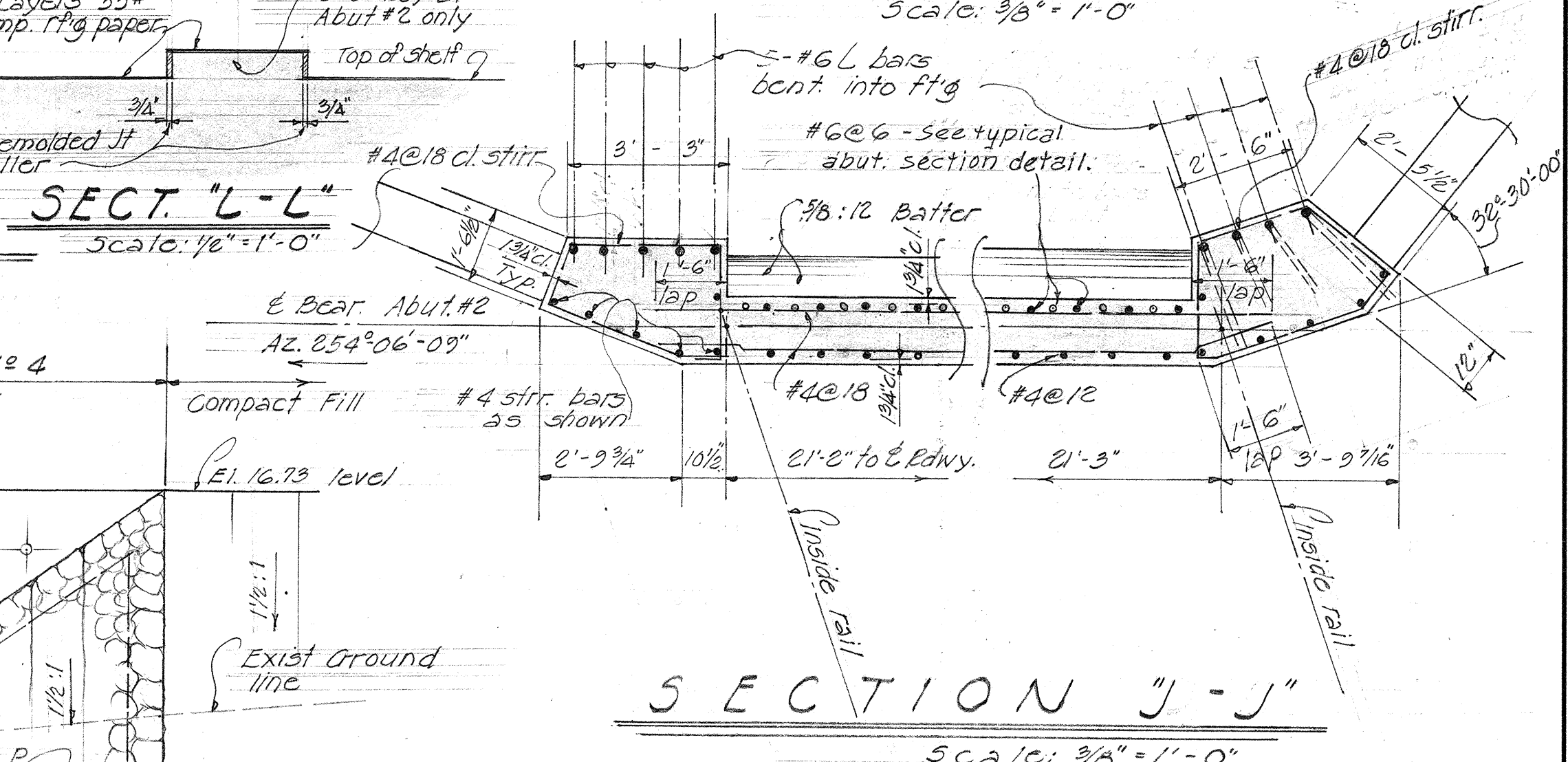
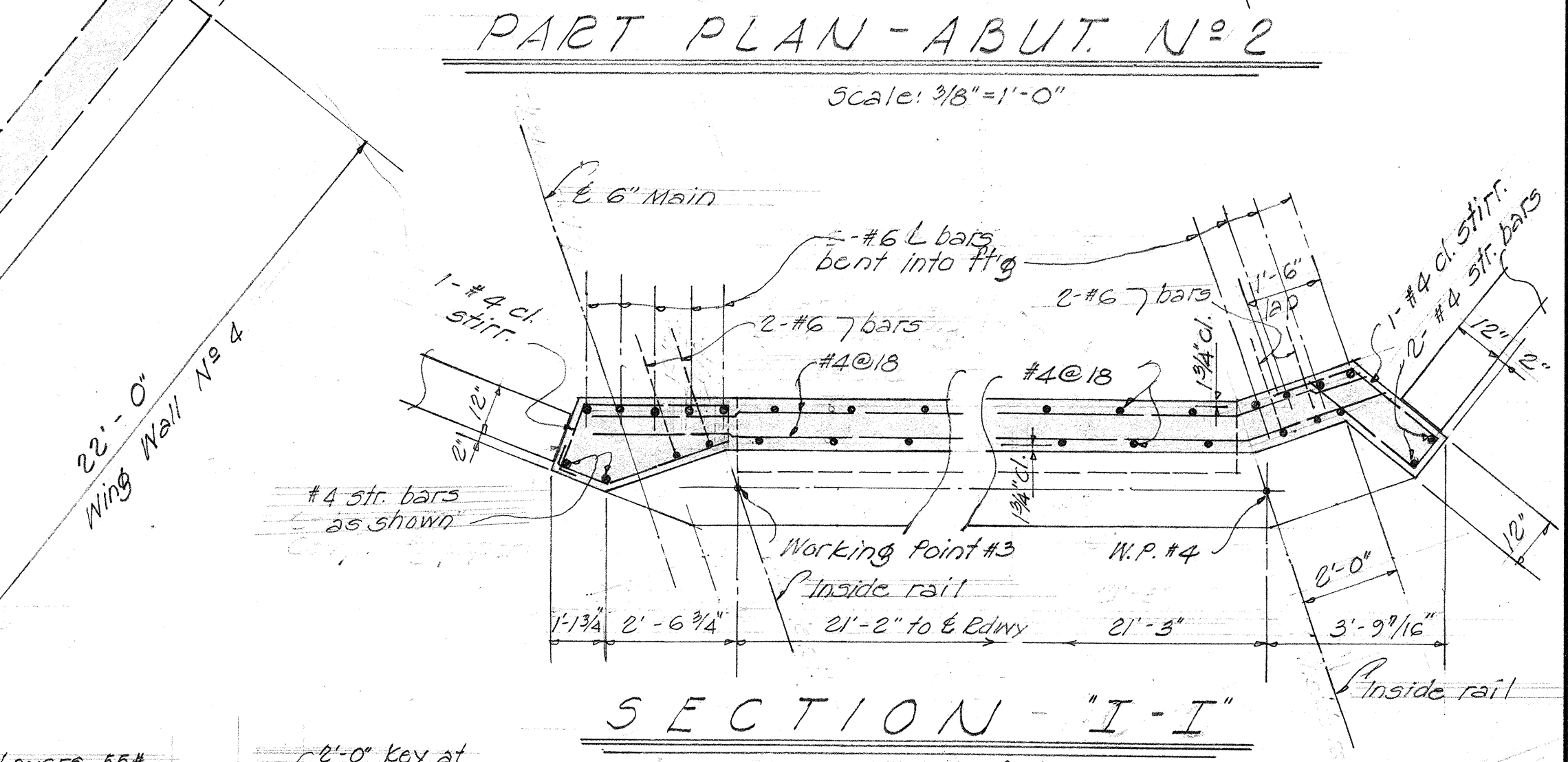
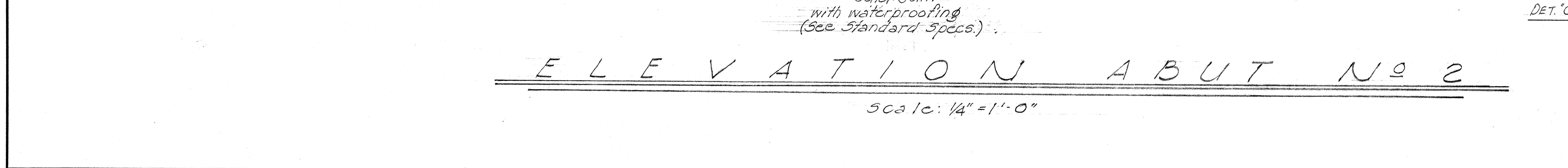
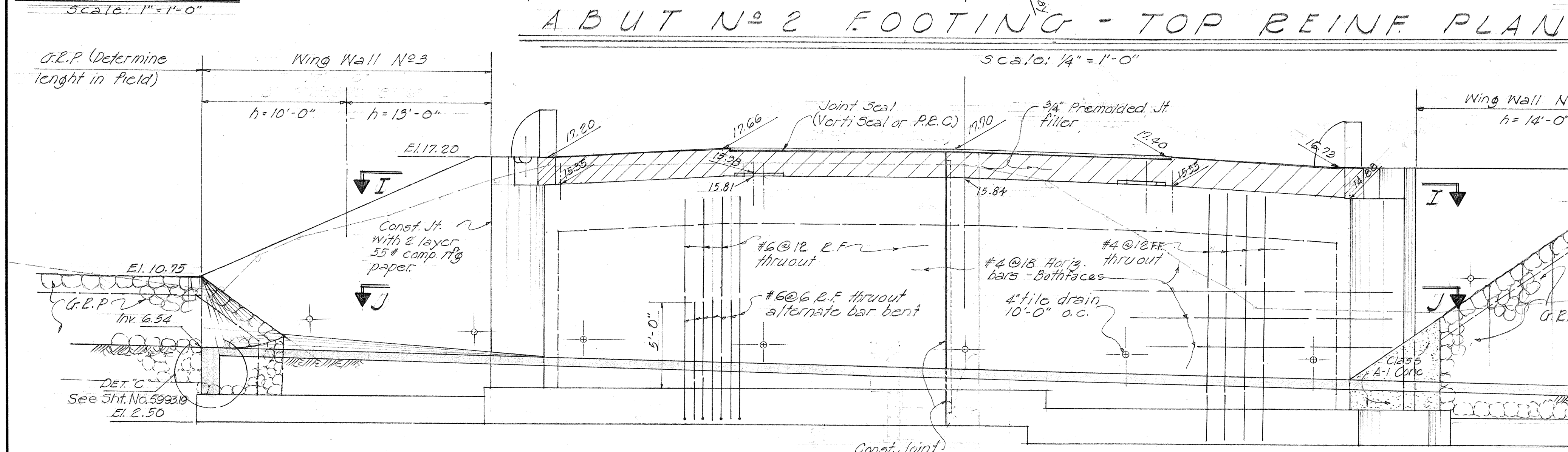
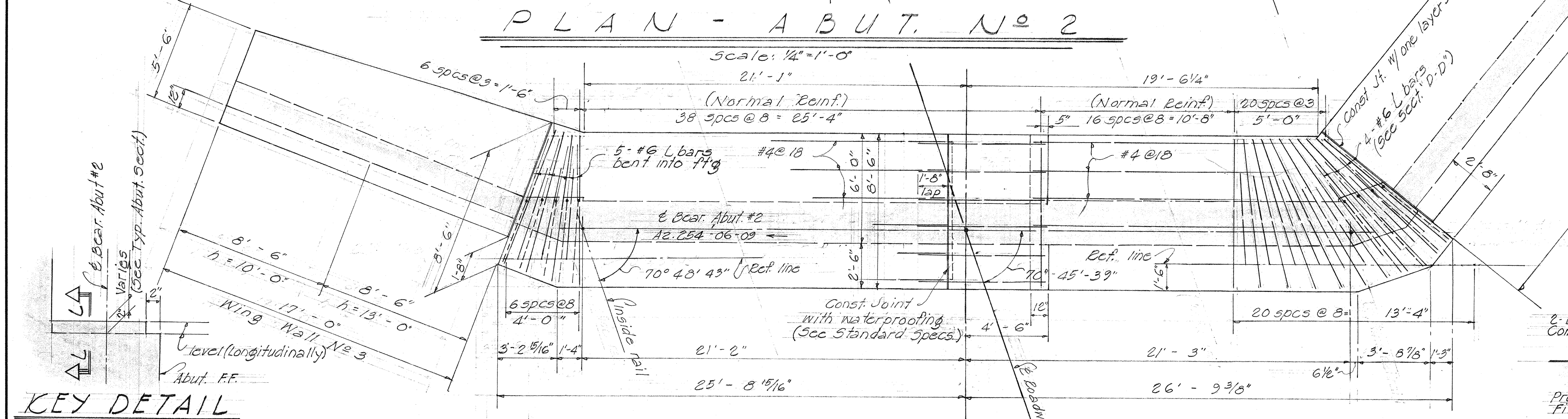
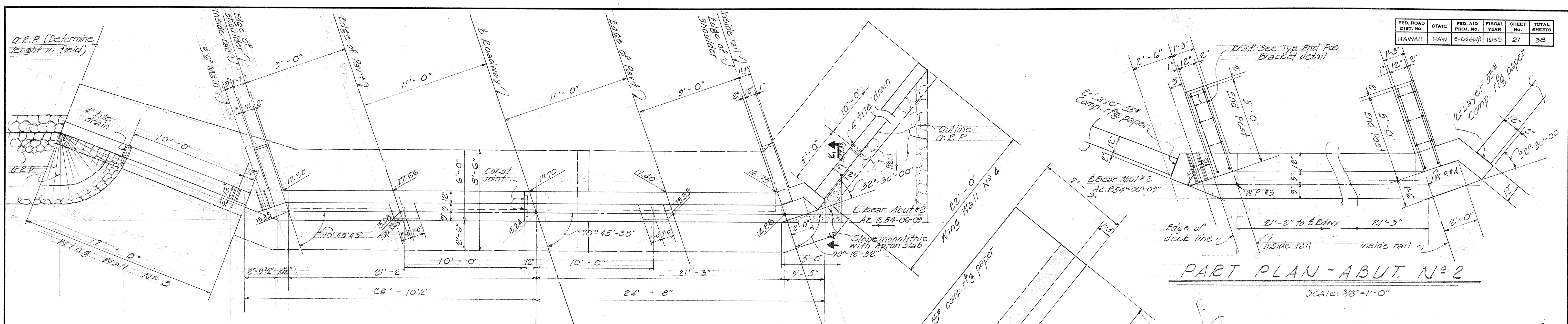
ELEVATION ABUTMENT NO 1

NOTE!
For Wing Wall reinf. and details
See Retaining Wall Standards.

TERRITORIAL HIGHWAY DEPARTMENT
TERRITORY OF HAWAII
MAKAHUNA BRIDGE
STA. 41+56.87 to STA. 41+68.76
Kawaihee Road PROJ. 5-0260(1)
Jan. 1959

DATE: 1-3-59
DESIGNED BY: C. A. L.
DRAWN BY: G. T. E. C. A.
QUANTITIES CHECKED BY: A. C. L.
CHECKED BY: G. T. E. C. A.
ORIGINAL PLAN NO. 5993.20

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW	5-0260(1)	1959	21	38



KEY DETAIL
Scale: 1" = 1'-0"

SECT. "L-L"
Scale: 1/2" = 1'-0"

NOTE:
For Wingwall reinf. and details
See Retaining Wall Standards.

TERRITORIAL HIGHWAY DEPARTMENT

TERRITORY OF HAWAII

MAKAHUNA BRIDGE

STA 41+56.87 to STA. 41+88.76

Kaunaloa Road

PRJ. 5-0260 (1)

JAN. 1959

SHEET No. 4 OF 4 SHEETS

5993.21

SURVEY PLOTTED BY	DATE
DESIGNED BY	1-32
DRAWN BY	1-32
CHECKED BY	1-32
QUANTITIES CHECKED BY	1-32
NOTE BOOK	1-32
No.	1-32