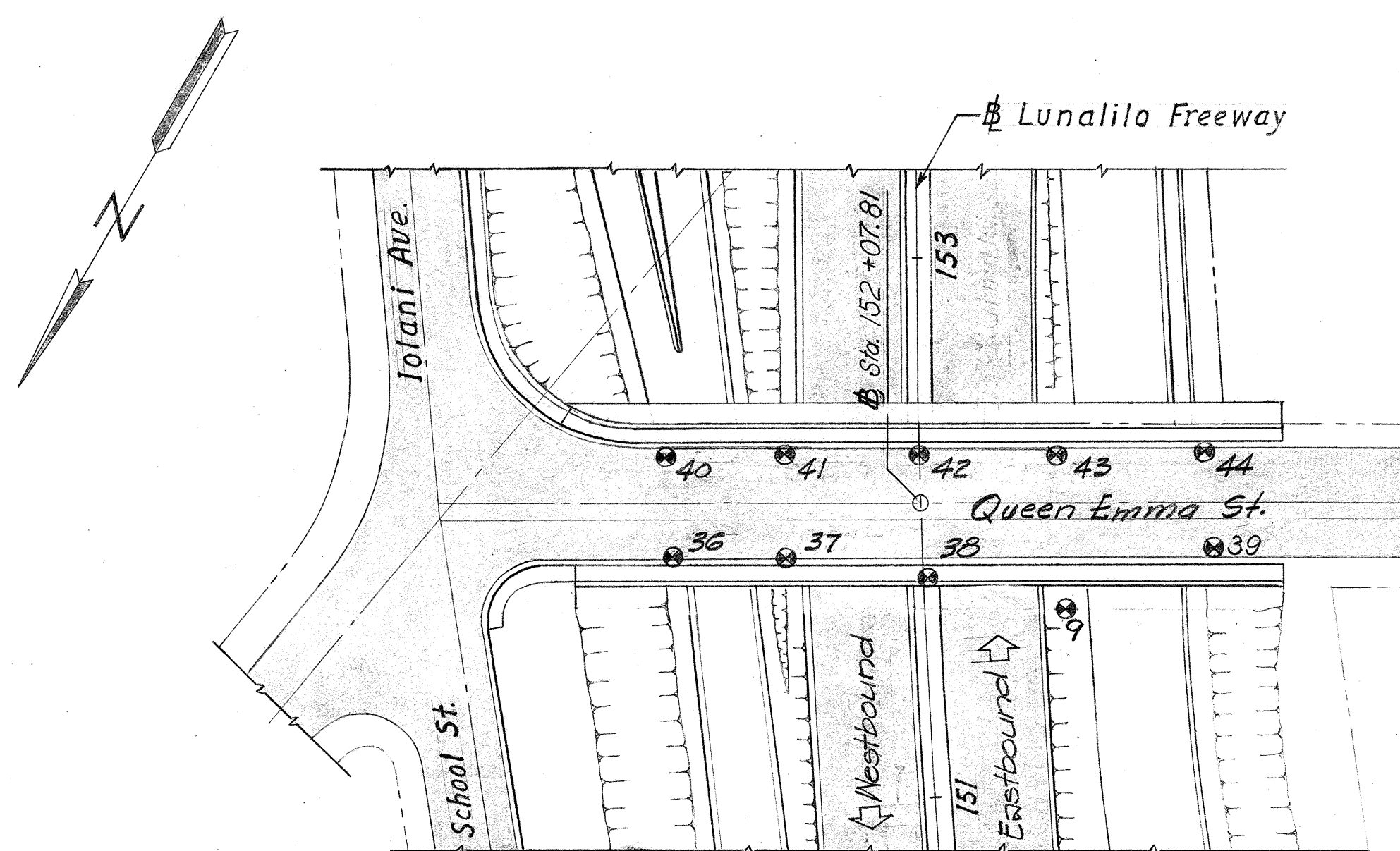


(REV.)
2-11-59

FED. ROAD DIST. NO.	STATE	FED. AID YEAR	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW	F-072-10	1958	126	178
UNIT 3					



LOCATION PLAN

Scale: 1"=50'

GENERAL NOTES

MATERIALS

All concrete class A-1 unless otherwise noted on plans.

All steel reinforcement shall be intermediate grade.

CONSTRUCTION METHODS

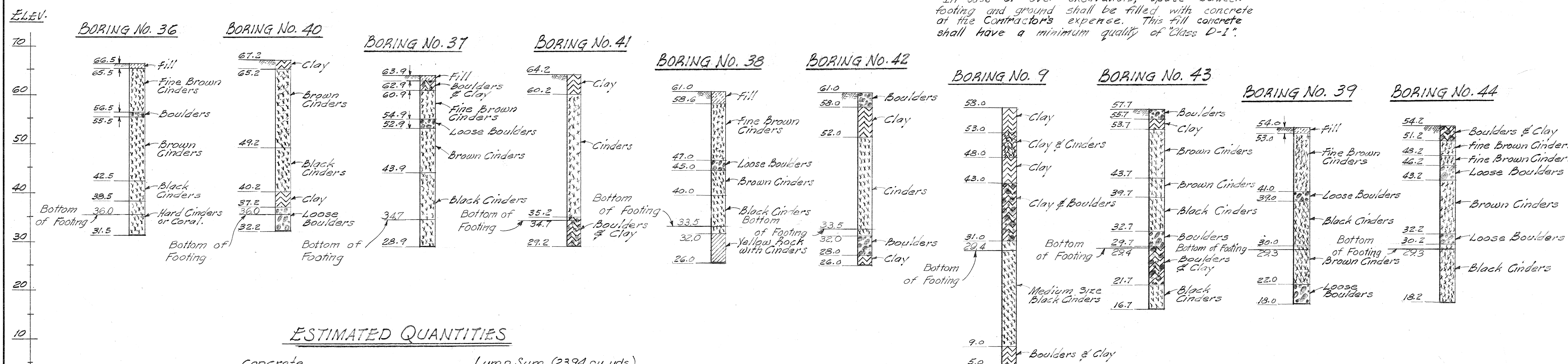
Curb & sidewalk on bridge shall not be poured until after release of falsework.

Placing of backfill at bridge shall not be started until after the concrete in the superstructure has reached a strength of 3,000 lbs. per square inch. The fill must be brought up evenly and simultaneously at both ends of the structure so as to avoid one sided earth pressure.

For concrete finish - See Standard Specifications.

Footings shall be poured to neat lines as shown. In case of over excavation, space between footing and ground shall be filled with concrete at the Contractor's expense. This fill concrete shall have a minimum quality of "Class D-1".

See attachment for sheet no. 208 for additional reinforcing bars @ retaining walls connection to abutment for str. #8, 9, & 11.

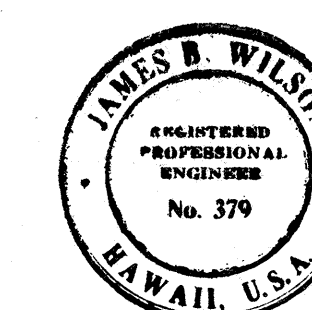


ESTIMATED QUANTITIES

Concrete.....	Lump Sum. (2394 cu. yds.)
Reinforcing Steel.....	Lump Sum. (346800 lbs.)
Structural Excavation.....	1,547 C.Y.
A.C. Pavement Mix No. V.....	171 Tons
Bituminous Tack Coat.....	115 Gals.
Filter Material.....	See C.Y.
Aluminum Railing.....	529 Lin. Ft.
Treated Timber.....	1.7 MBM.

LOG OF BORINGS

Scale: 1"=10'



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REGISTERED ENGINEER
DATE JUL 3 1957

STRUCTURE NO. 9
TERRITORIAL HIGHWAY DEPARTMENT
TERRITORY OF HAWAII

LUNALILO FREEWAY
PROJECT NO. F-072-10, UNIT 3
GRADE SEPARATION FOR
QUEEN EMMA STREET
LOCATION PLAN & BORINGS

SHEET NO. 1 OF 11 SHEETS

.8173 (1).126 215

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW	F-012-1(1)	1958	127	148

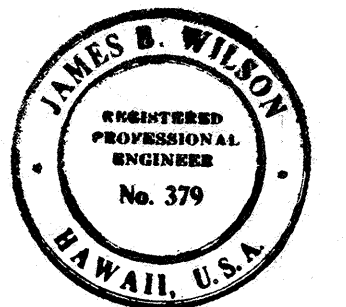
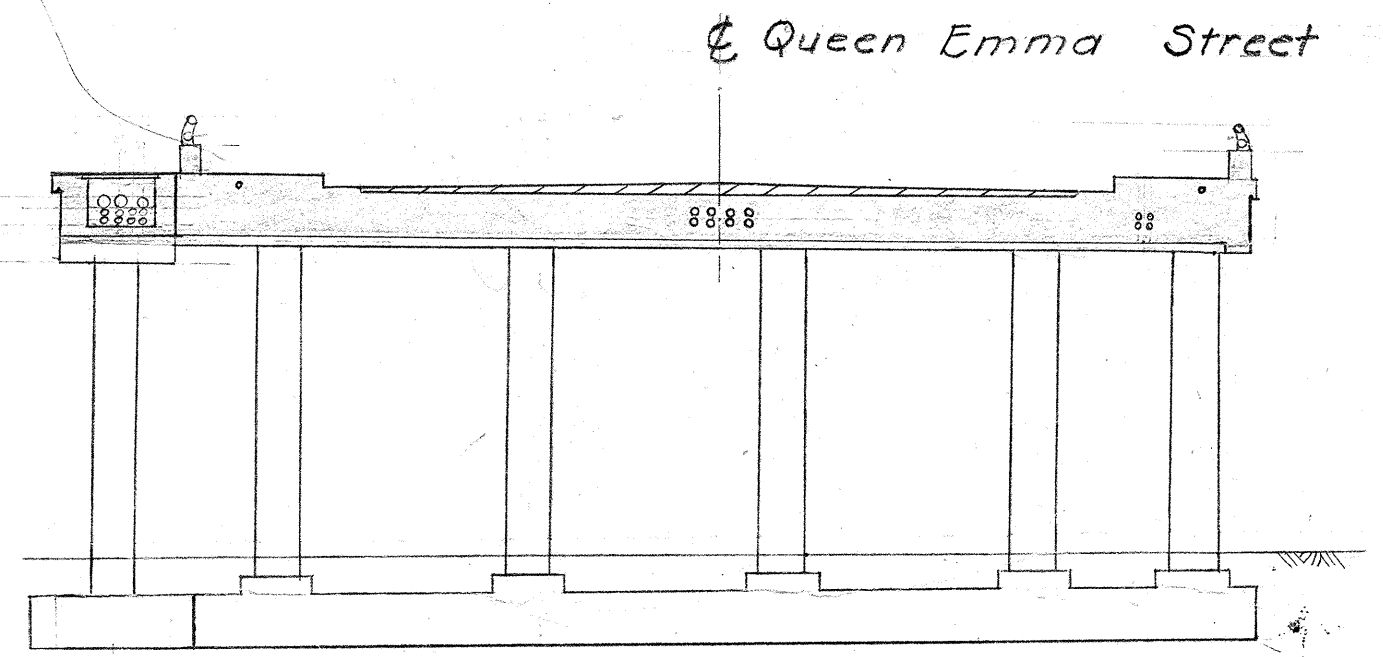
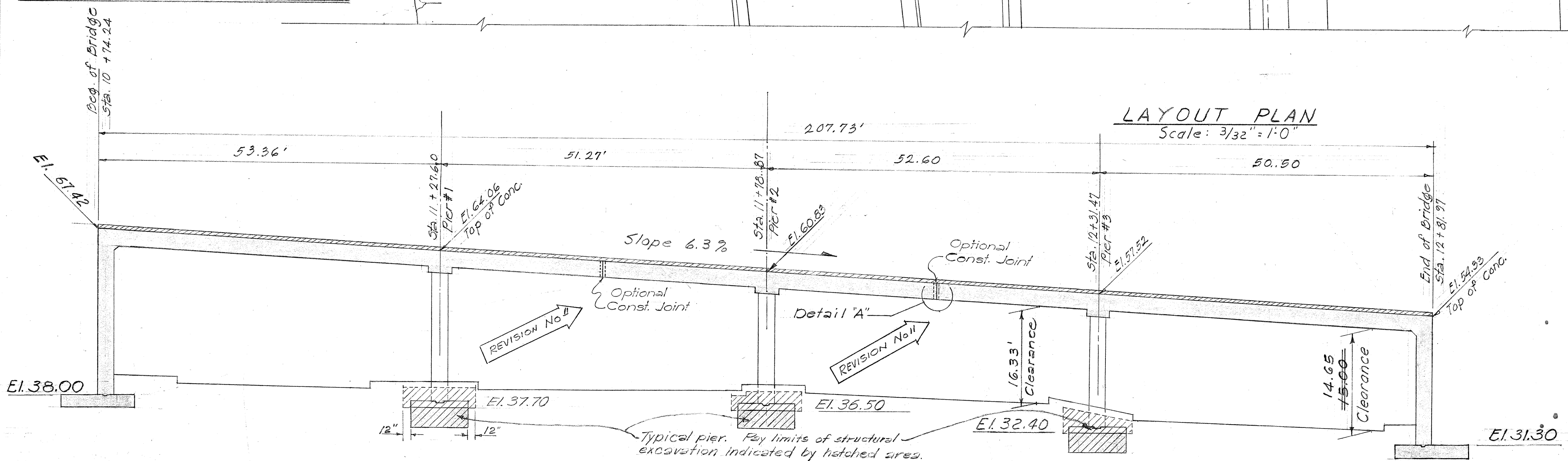
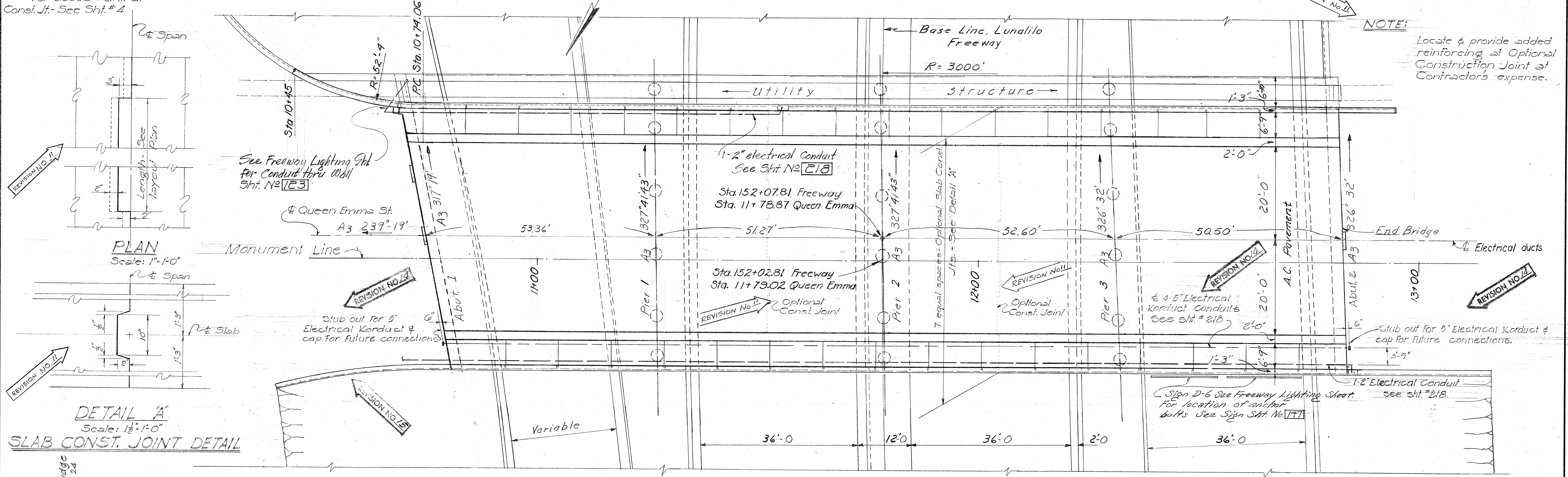
UNIT 3

Revision #11 - Sept. 14, '60 - Added Slab Const. Jt. detail.
Revision #14 - March 14, 1961
4-5" ID Electrical Conduit Korducts added.
Rev. #15 - 8-10-61 - Change Ref. wall #1 & #2

NOTE:
For added reinf. at Const. Jt. - See Sht. # 4

NOTE:

Locate & provide added reinforcing at Optional Construction Joint at Contractors expense.



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DATE JUL 3 1957

Note: For limits of Abutment Struct. Exc. Pay Line See Sheet No. 208
Limits of Pier Structure Excavation Indicated by Hatched Area.

NOTE:
Excavate and pour all pier and Abutment footings to neat line.

LONGITUDINAL SECTION @ C OF BRIDGE
Scale: 3/32" = 1'-0"

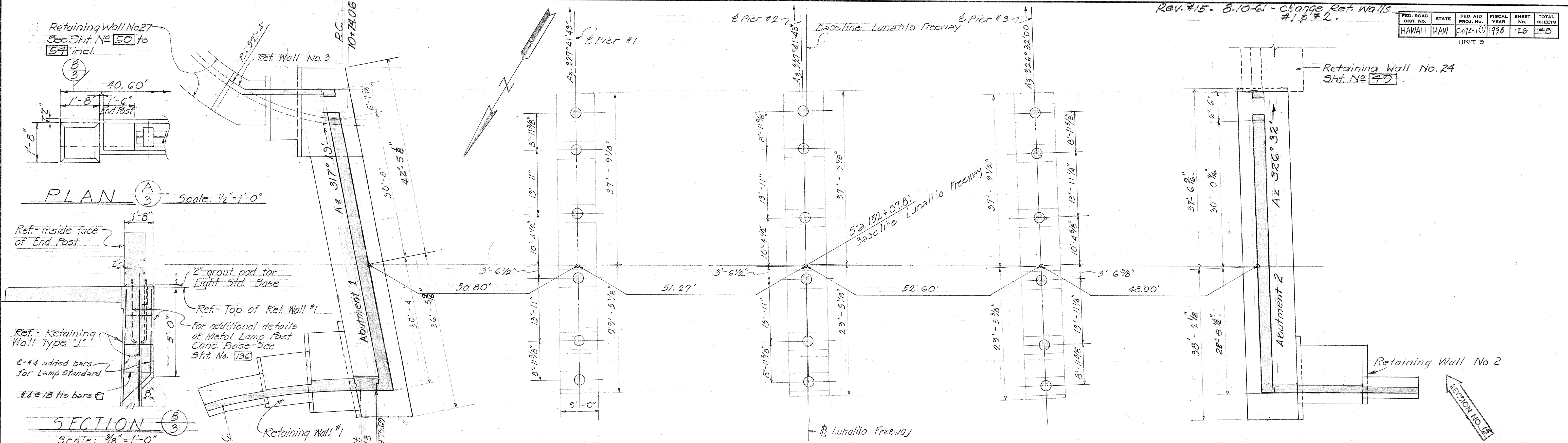
SHEET NO. 2 OF 11 SHEETS

.S173(1).127 216

DATE	5-28-57
SURVEY PLOTTED BY	WLB
DESIGNED BY	WLB
TRACED BY	WLB
QUANTITIES BY	WLB
CHECKED BY	WLB
ORIGINAL PLAN	No.
NOTE BOOK	No.

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW	F-072-1(1)	1958	128	148

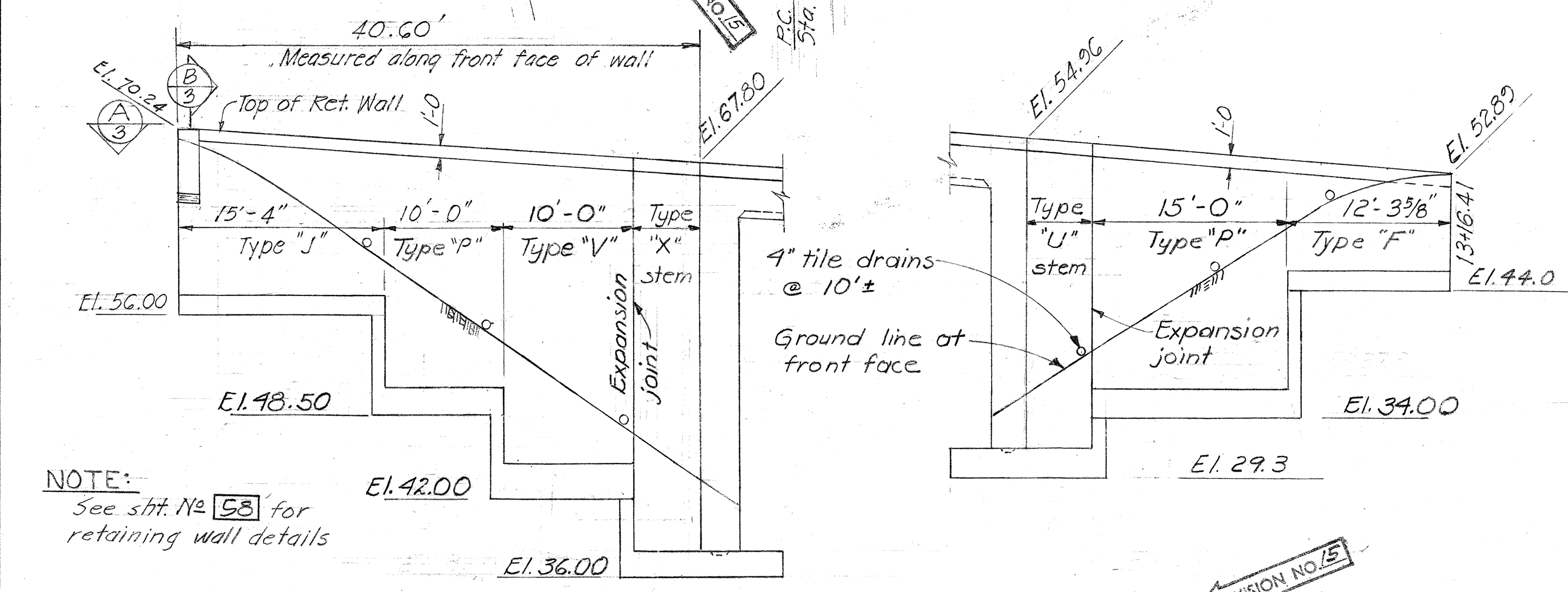
Rev. #15 - 8-10-61 - change Ret. Walls #1 & #2.



FOUNDATION PLAN
Scale: 3/32" = 1'-0"

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

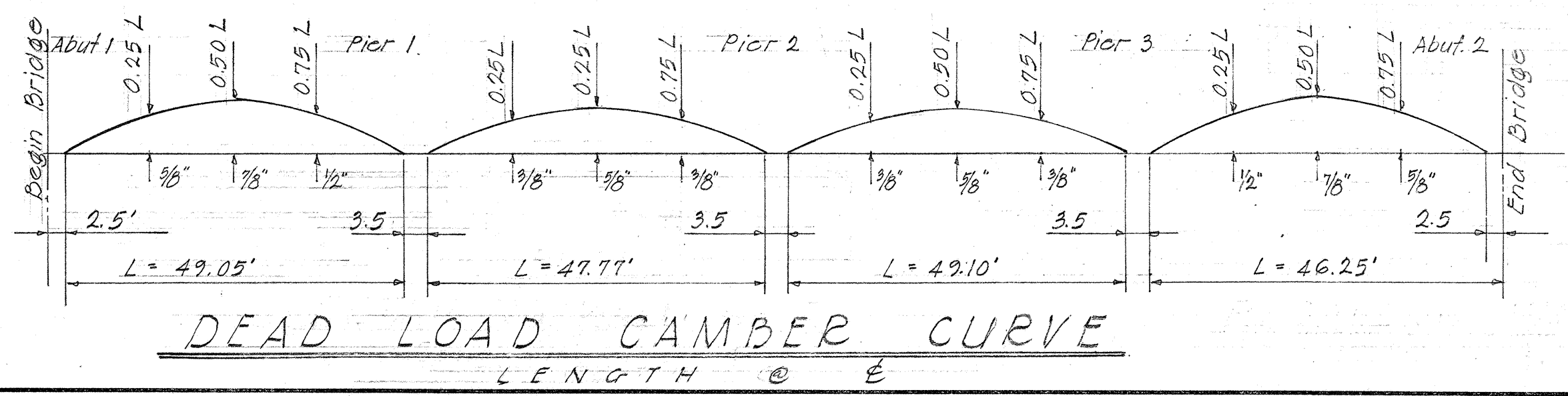
PLAN A-A
Scale: 1/2" = 1'-0"



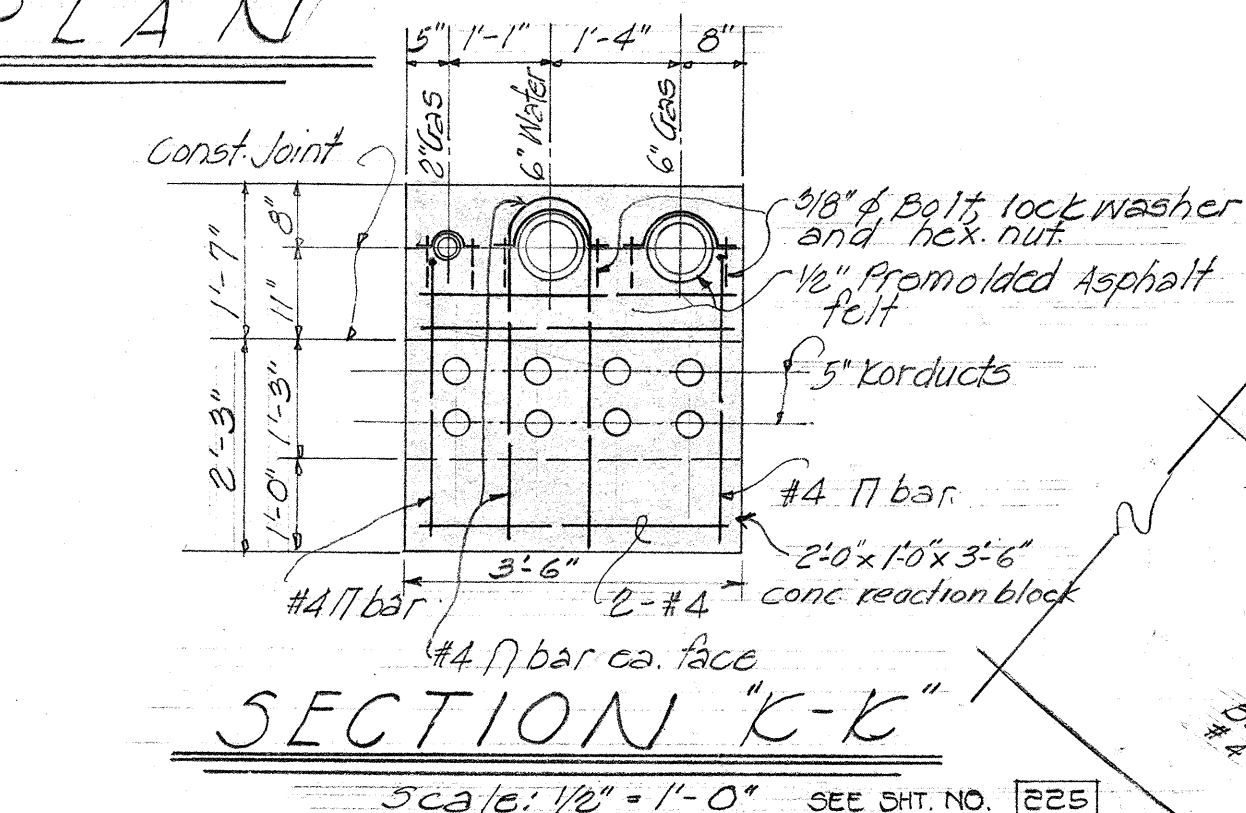
RETAINING WALL No. 1
Scale: 1/8" = 1'-0"

RETAINING WALL No. 2
Scale: 1/8" = 1'-0"

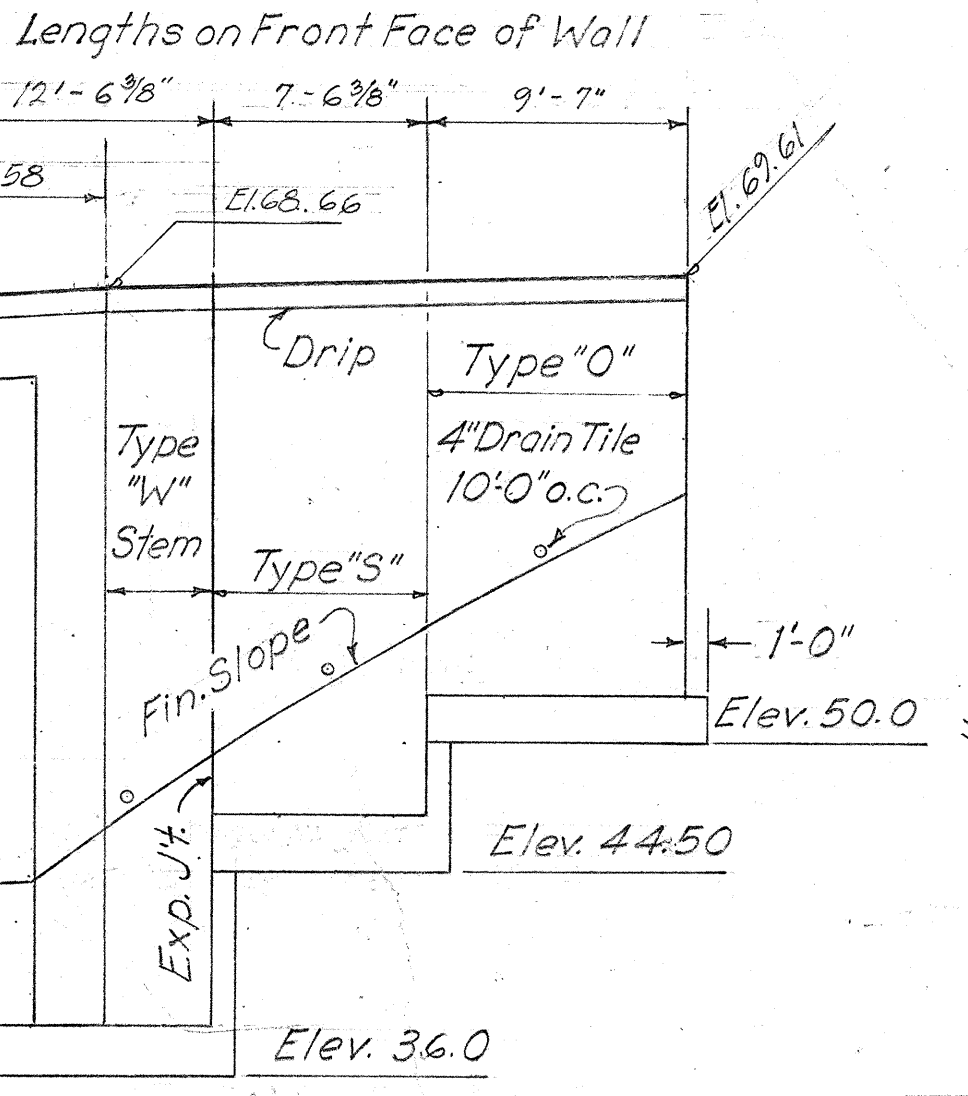
NOTE: See Sht. No. 58 for retaining wall details



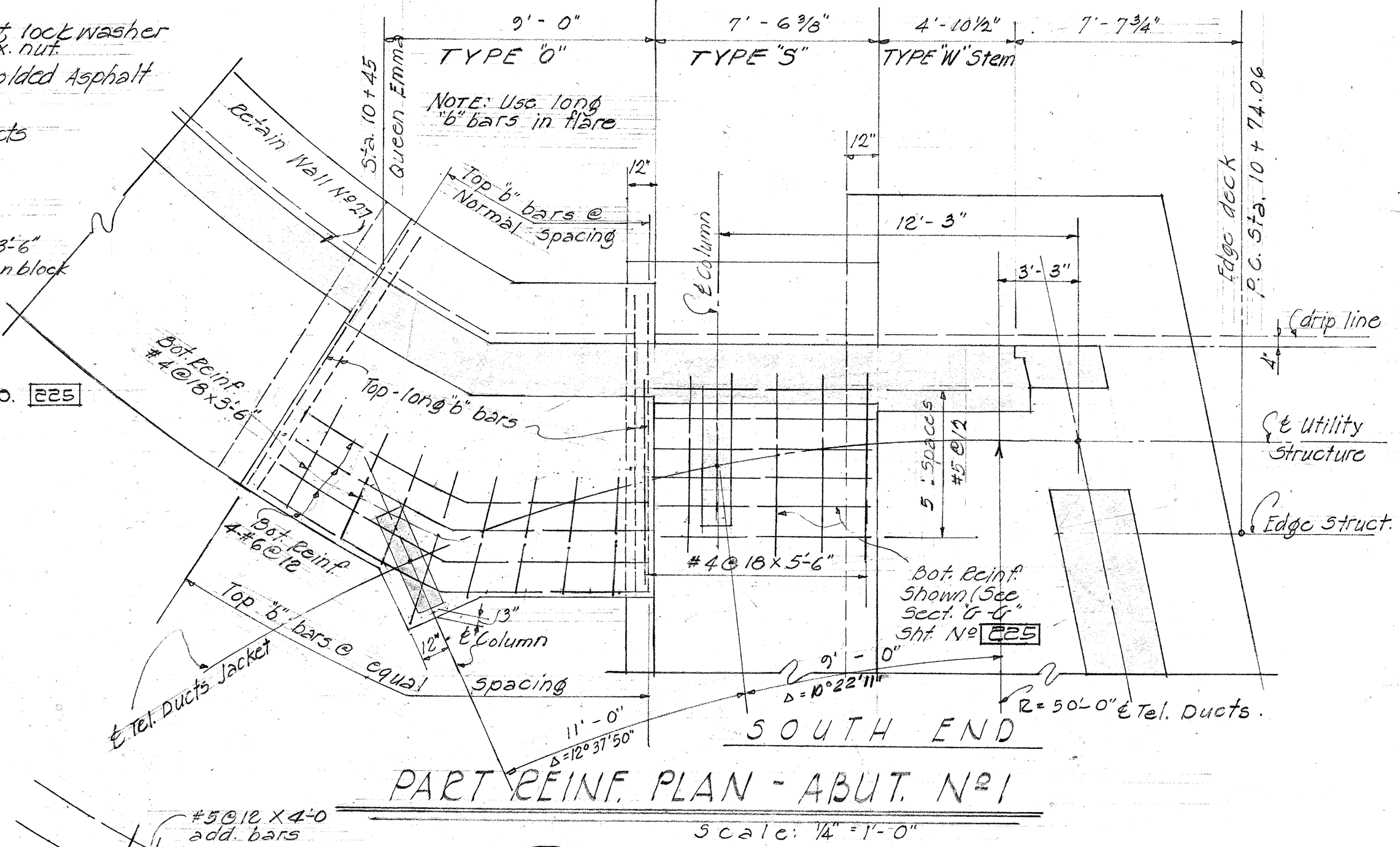
DEAD LOAD CAMBER CURVE
LENGTH @ E



SECTION K-K
Scale: 1/2" = 1'-0"

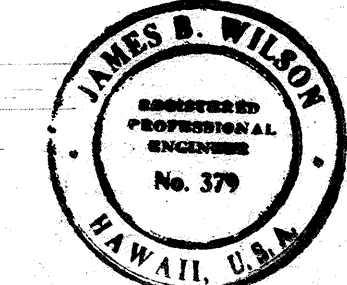


RETAINING WALL No. 3
Scale: 1/8" = 1'-0"



PART REINF. PLAN - ABUT. No. 1
Scale: 1/4" = 1'-0"

PART PLAN
Showing Top Point of Column
Scale: 1/4" = 1'-0"

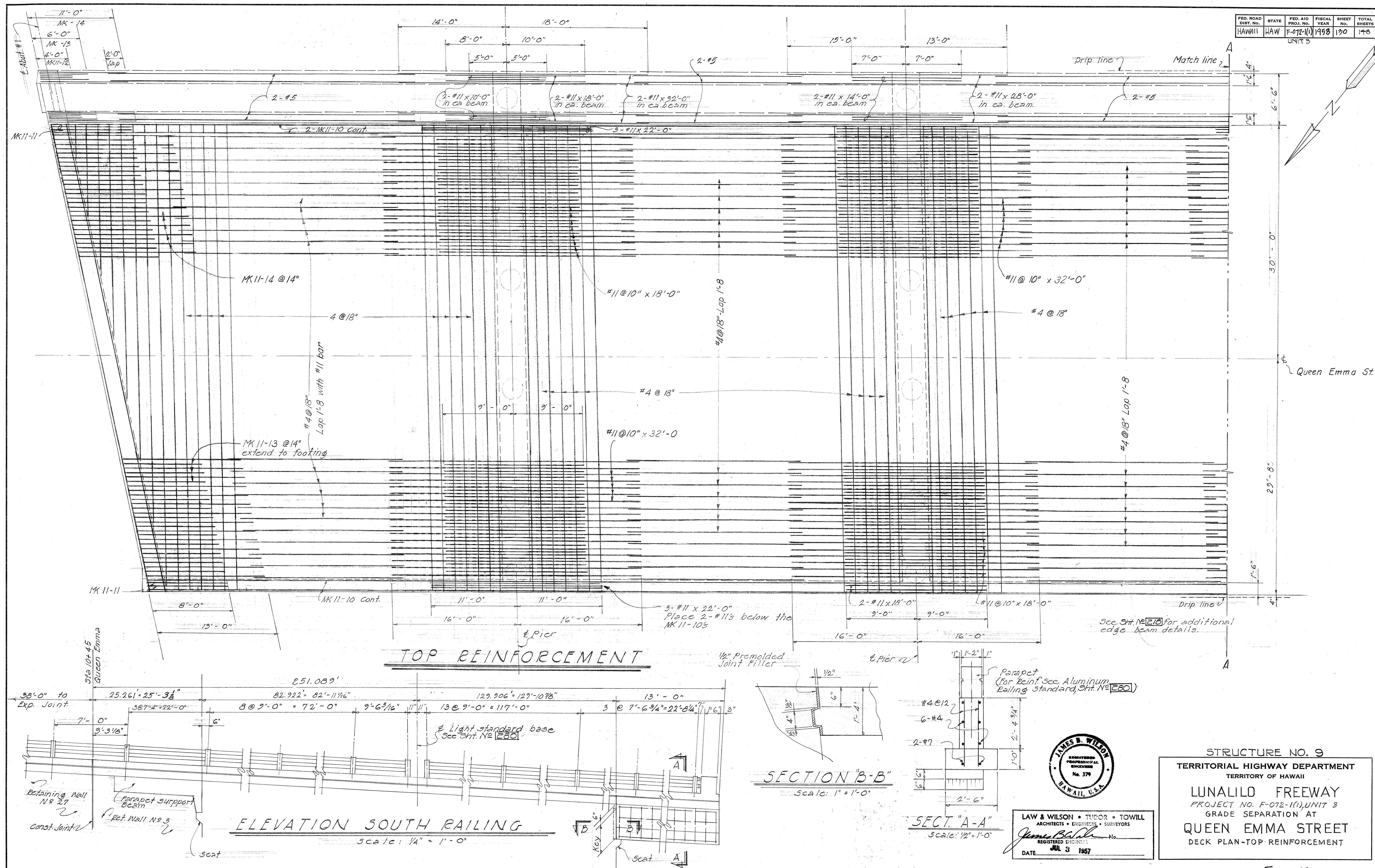


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James B. Wilson
REGISTERED ENGINEER
DATE JUL 3 1957

STRUCTURE NO. 9
TERRITORIAL HIGHWAY DEPARTMENT
TERRITORY OF HAWAII
LUNALILO FREEWAY
PROJECT NO. F-072-1(1), UNIT 3
GRADE SEPARATION AT
QUEEN EMMA STREET
FOUNDATION PLAN & RETAINING WALLS

FED. ROAD DIST. No.	STATE	FED. AID PROJ. No.	FISCAL YEAR	SHEET No.	TOTAL SHEETS
HAWAII	HAW	F-072-1(1)	1958	130	148

UNIT 3



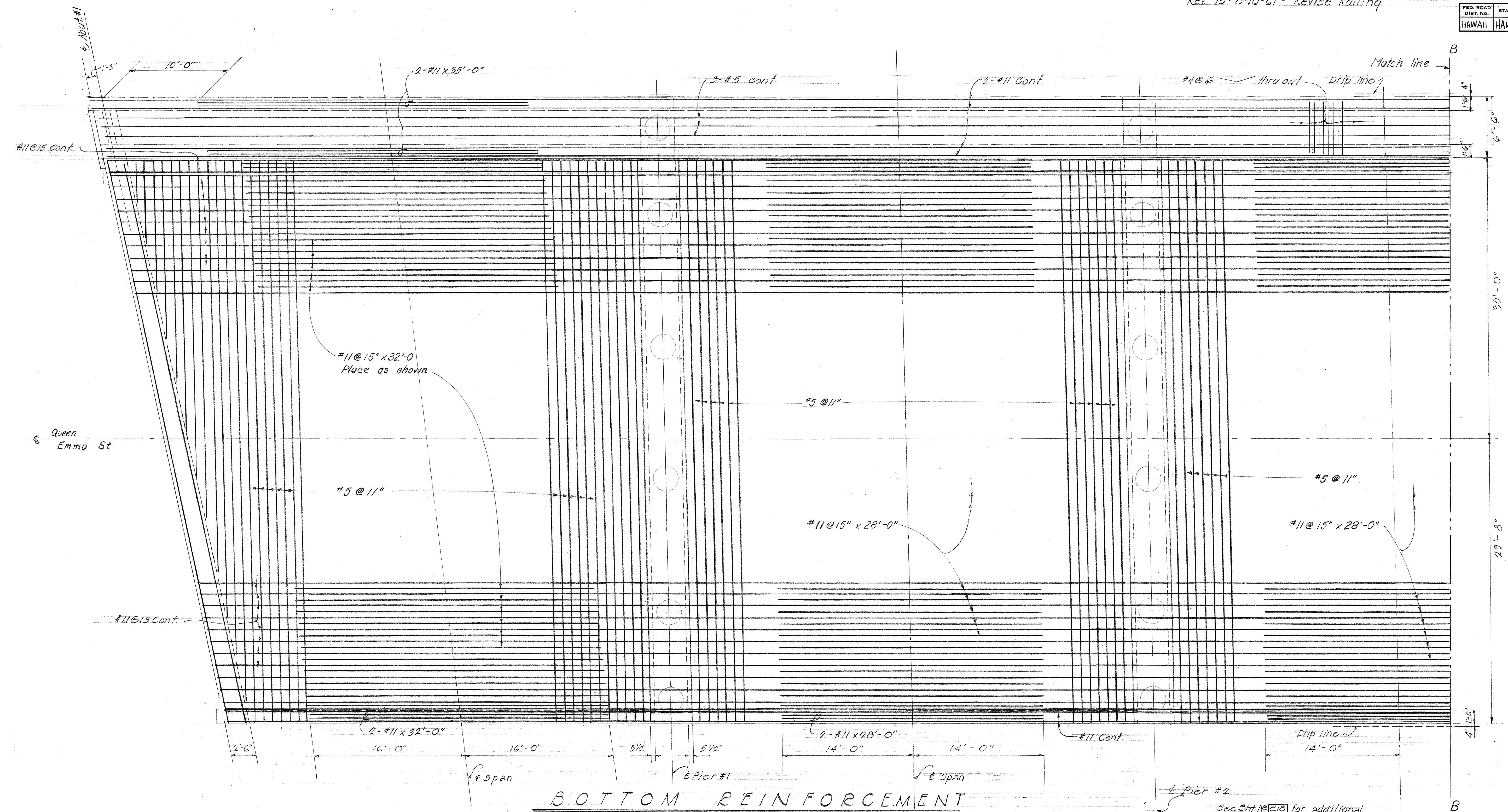
SHEET No. 5 OF 11 SHEETS

. \$ 173 (1).130 219

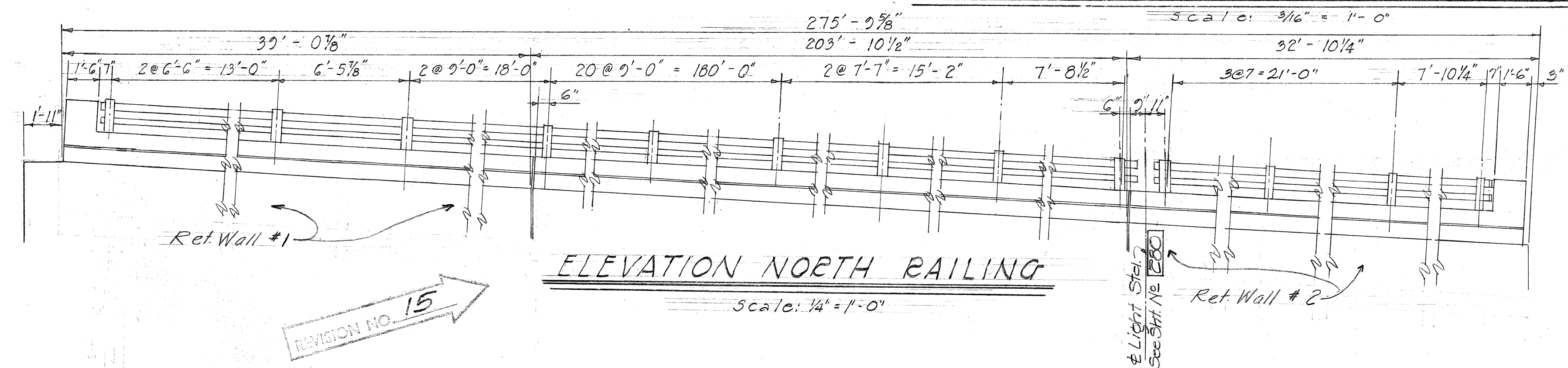
Rev. 15-8-10-61 - Revise Railing

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW	F-012-101	1950	121	148

UNIT 3



BOTTOM REINFORCEMENT



ELEVATION NORTH RAILING

See Sht. No. 220 for additional edge beam details.
See Sht. No. 221 for Utility struct. reinf.



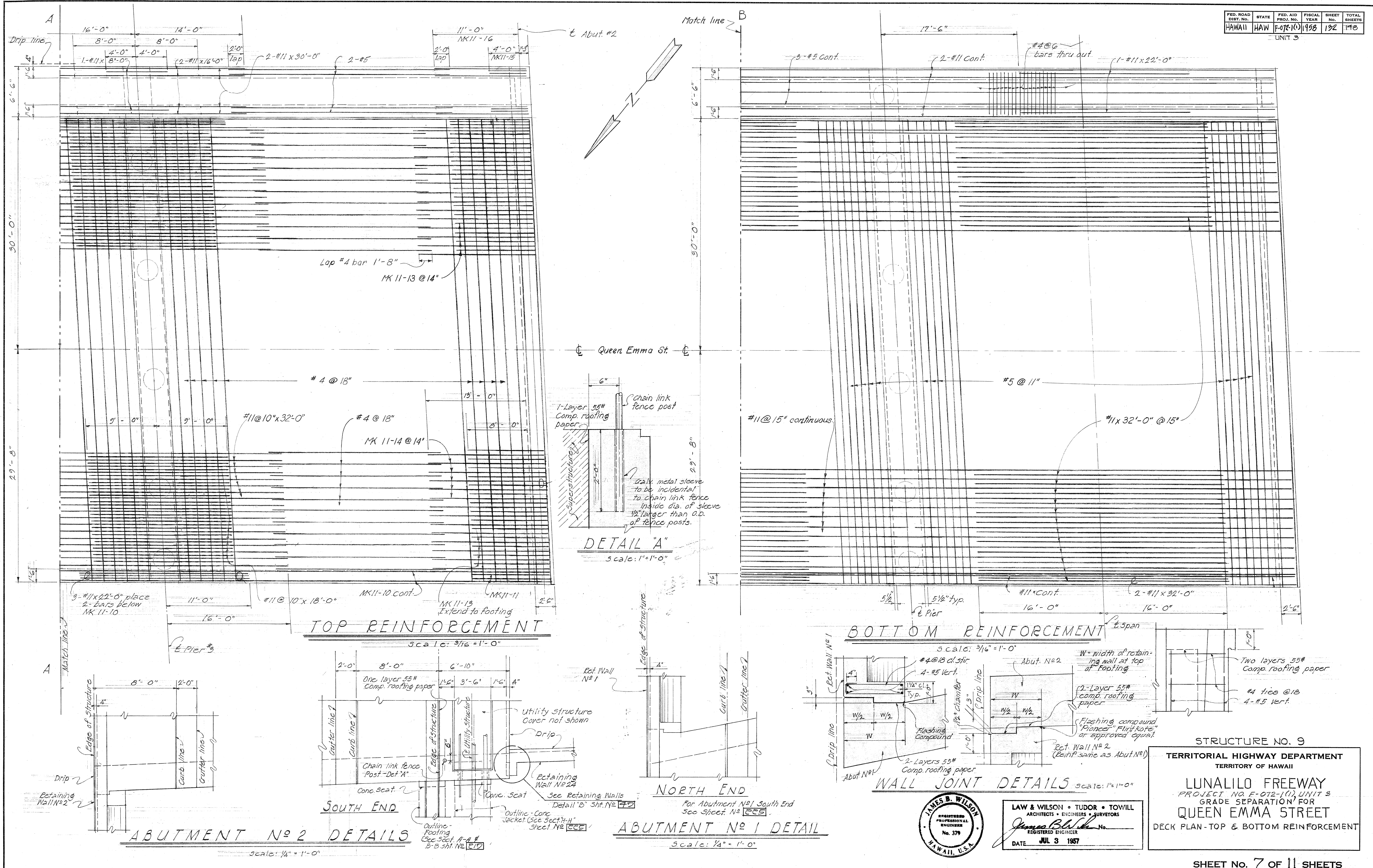
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James B. Wilson
REGISTERED ENGINEER
DATE JUL 3 1957

STRUCTURE NO. 9
TERRITORIAL HIGHWAY DEPARTMENT
TERRITORY OF HAWAII
LUNALILO FREEWAY
PROJECT NO. F-012-101 UNIT 3
GRADE SEPARATION AT
QUEEN EMMA STREET
DECK PLAN-BOTTOM REINFORCEMENT

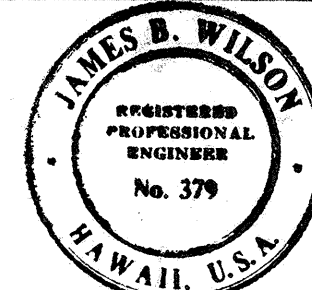
SHEET NO. 6 OF 11 SHEETS

.S173 (1).131 220

SURVEY PLOTTED BY	DATE
DESIGNED BY	
TRACED BY	
QUANTITIES CHECKED BY	
CHECKED BY	
NO.	5-785-57



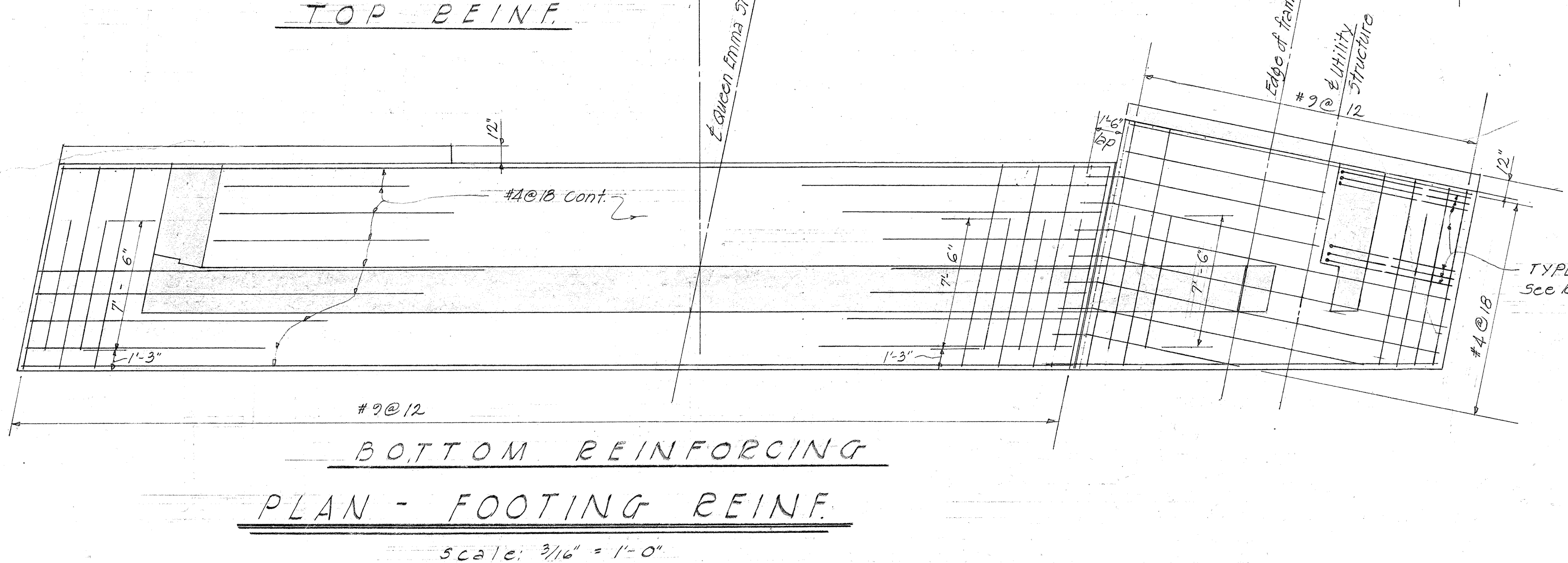
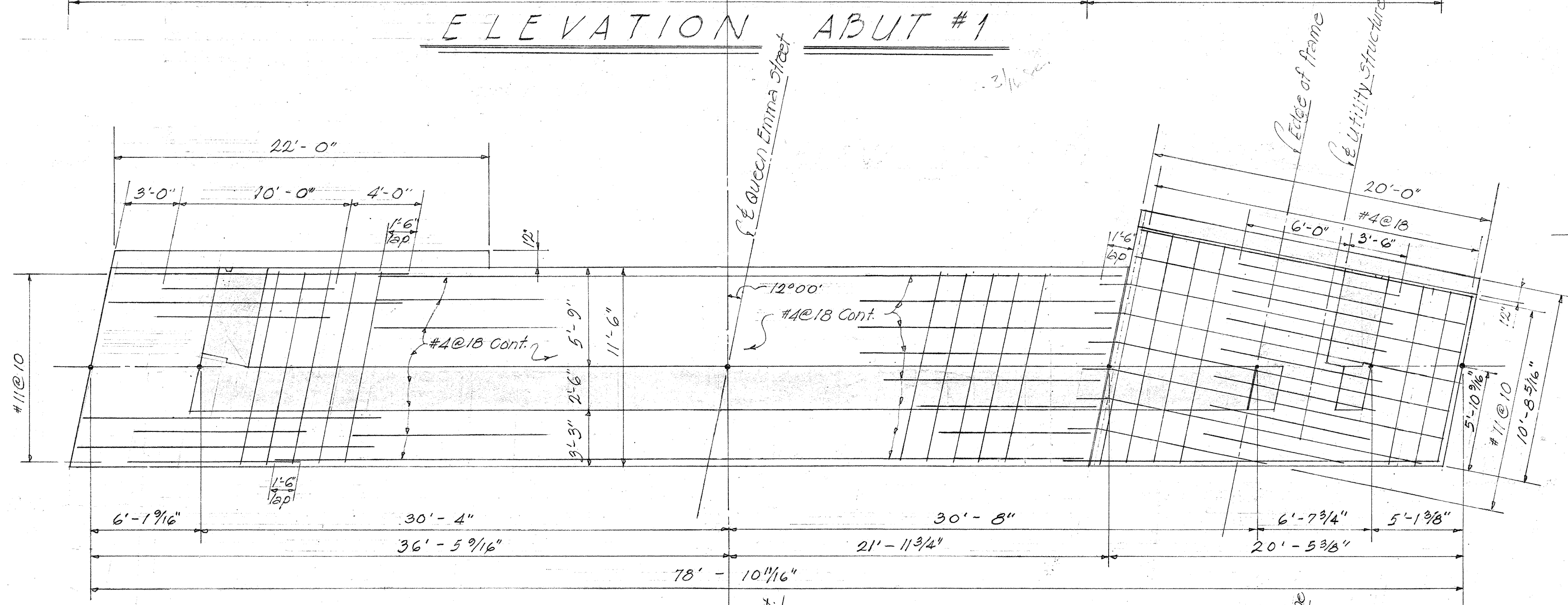
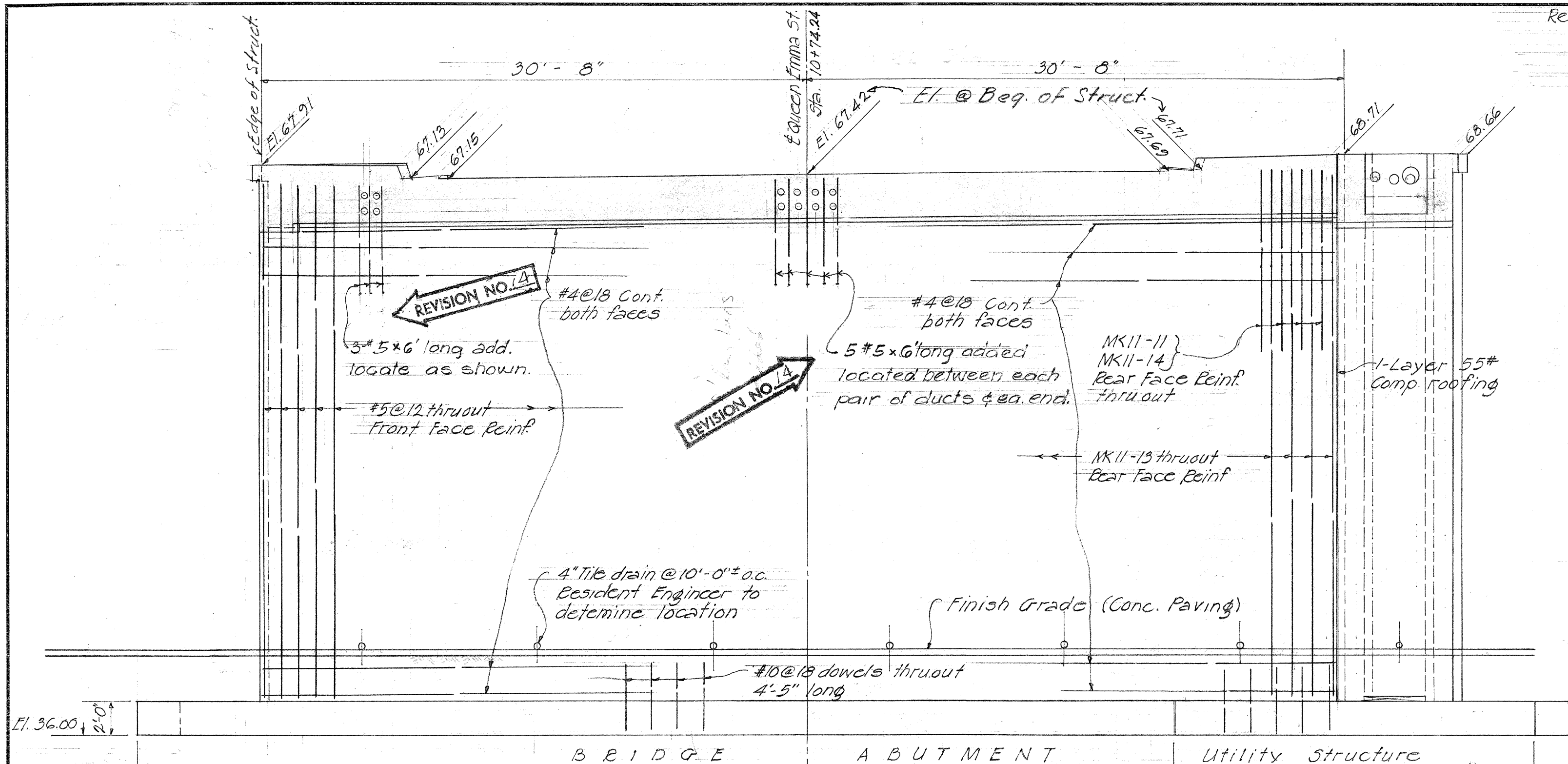
DATE: 5-28-57
DESIGNED BY: J.W.
DRAWN BY: J.W.
CHECKED BY: J.W.
ORIGINAL PLAN NO. 132-57



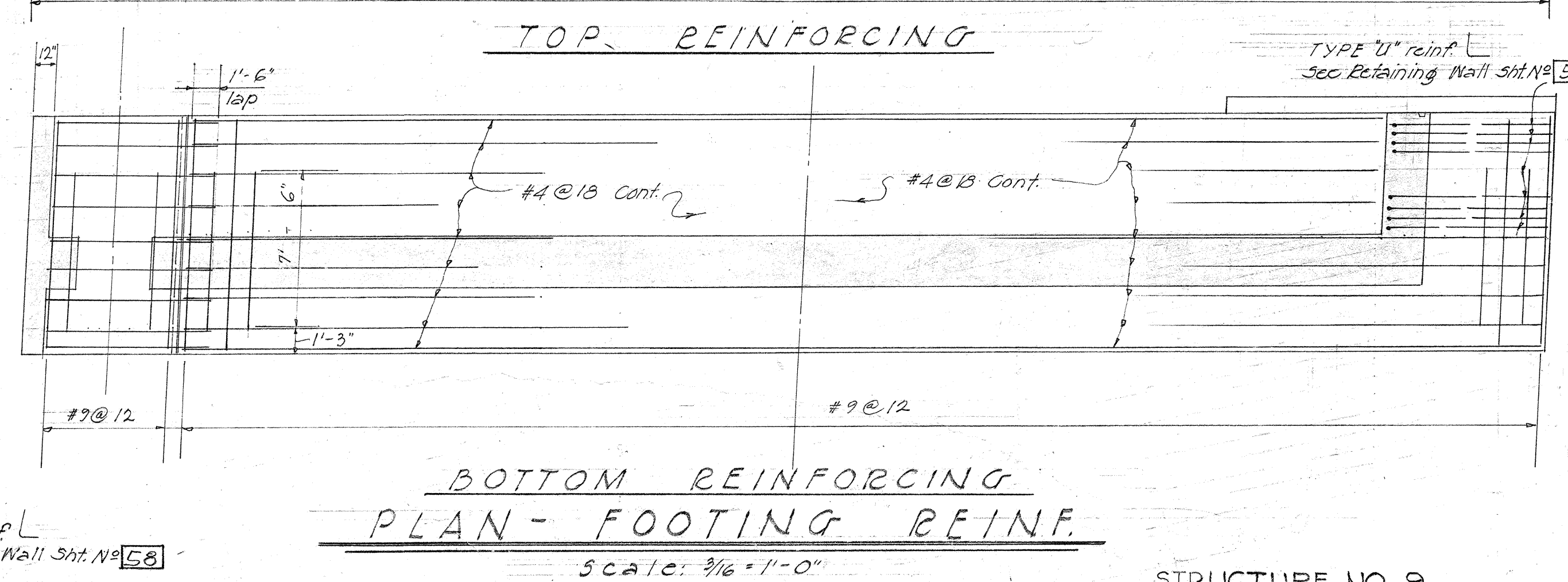
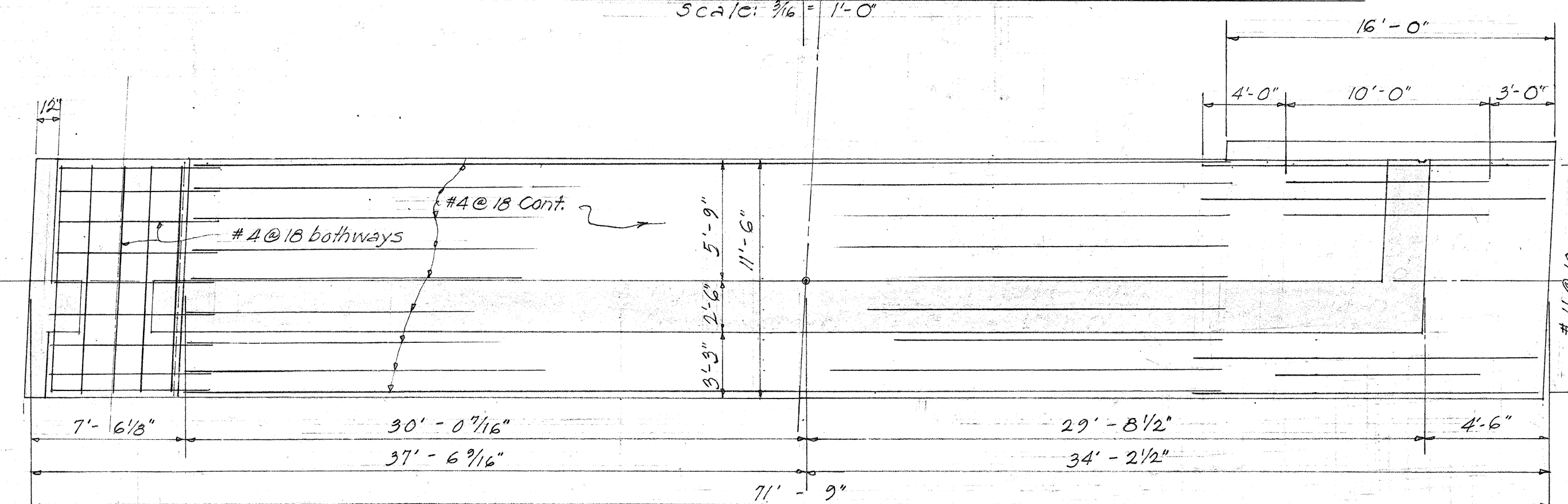
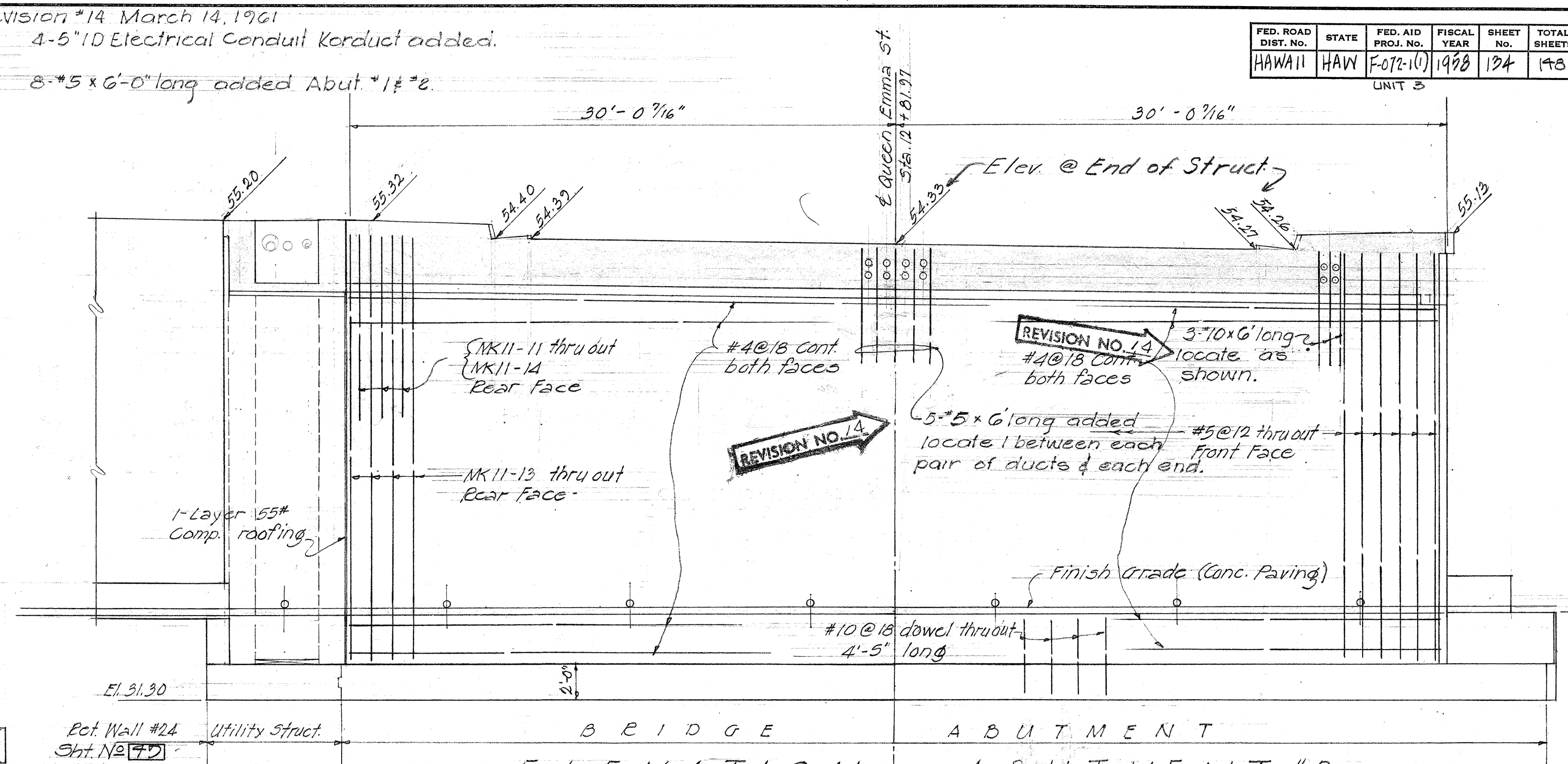
LAW & WILSON • TUDOR • TOWILL
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REGISTERED ENGINEER
DATE: JUL 3 1957

STRUCTURE NO. 9
TERRITORIAL HIGHWAY DEPARTMENT
TERRITORY OF HAWAII
LUNALILO FREEWAY
PROJECT NO. F-072-100, UNIT 3
GRADE SEPARATION FOR
QUEEN EMMA STREET
DECK PLAN - TOP & BOTTOM REINFORCEMENT

SURVEY PLOTTED BY	DATE
DESIGNED BY	
TRACED BY	
QUANTITIES BY	
CHECKED BY	
ORIGINAL PLAN	NO.
NOTE BOOK	
CHECKED BY	



REVISION #14 March 14, 1961
4-5" 10 Electrical Conduit Kerduct added.
8-5" 6-0" long added Abut. #1 & #2.



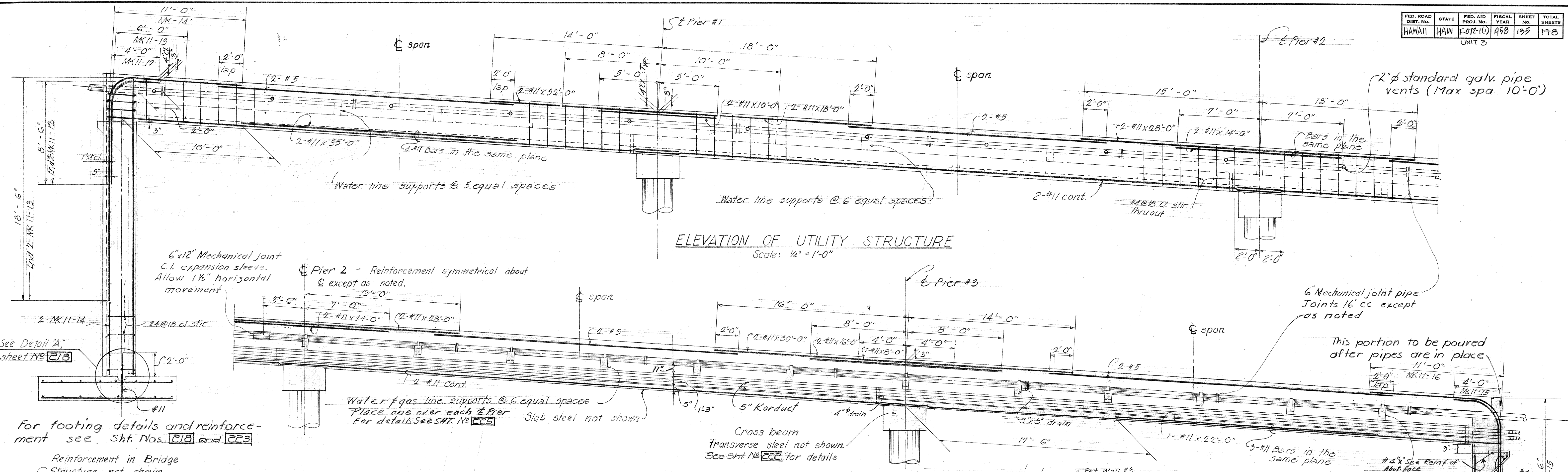
LAW & WILSON • TUDOR • TOWILL
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REGISTERED ENGINEER
DATE JUL 3 1967

STRUCTURE NO. 9
TERRITORIAL HIGHWAY DEPARTMENT
TERRITORY OF HAWAII
LUNALILO FREEWAY
PROJECT NO. F-012-1(1) UNIT 3
GRADE SEPARATION AT
QUEEN EMMA STREET
HANDRAIL LAYOUT & DETAILS

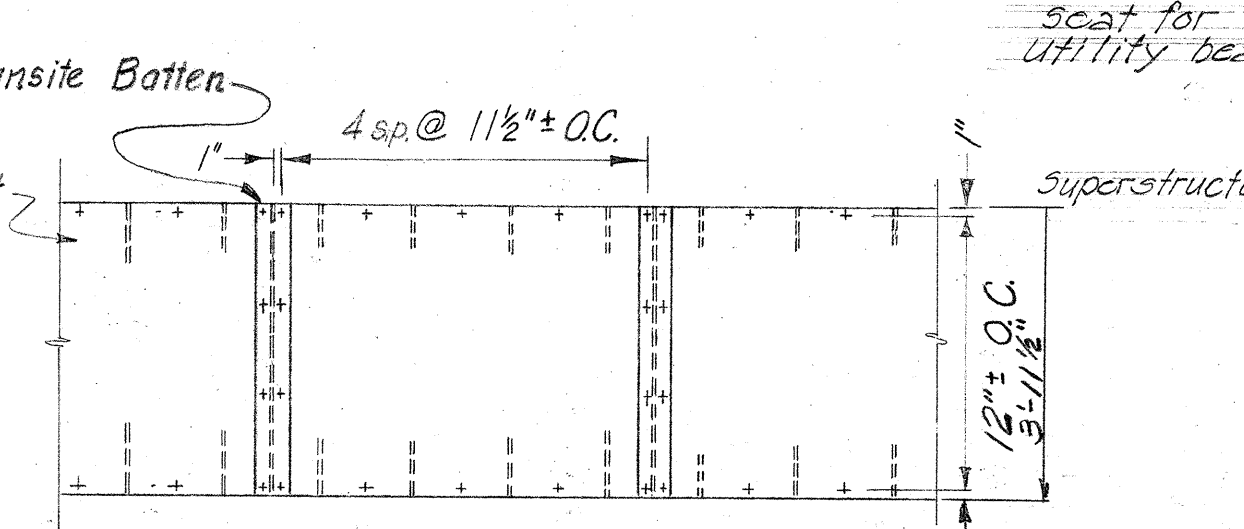
SHEET No. 9 OF 11 SHEETS

.S173(1).134 223

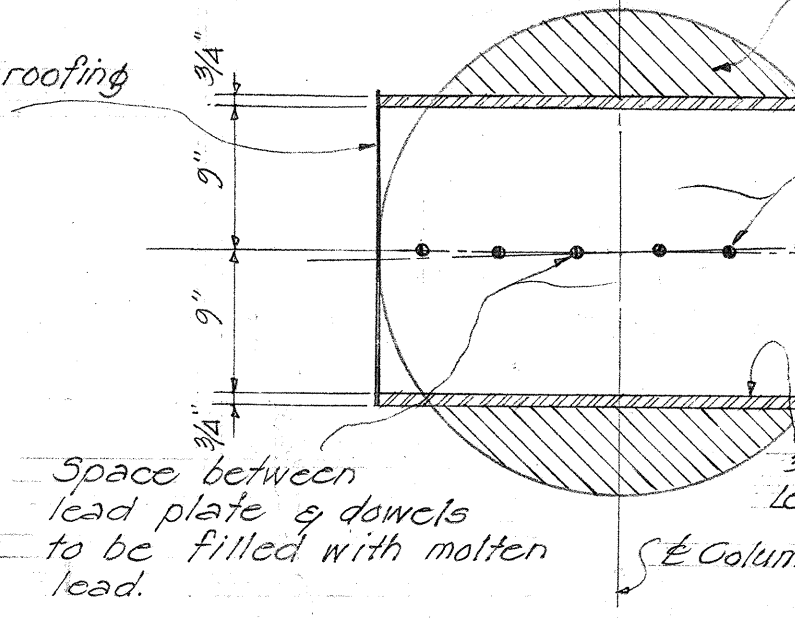
FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW	F-072-1(1)	1958	178	178



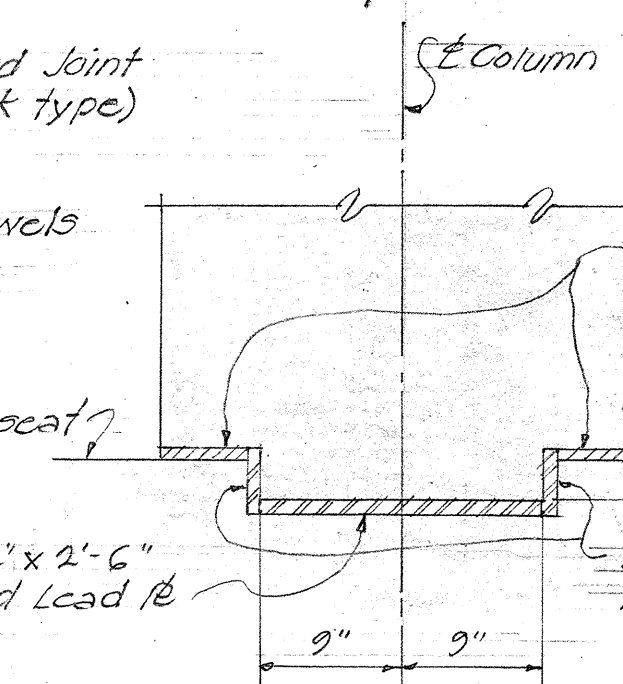
SECTION ALONG UTILITY STRUCTURE
Scale: 1/4" = 1'-0"



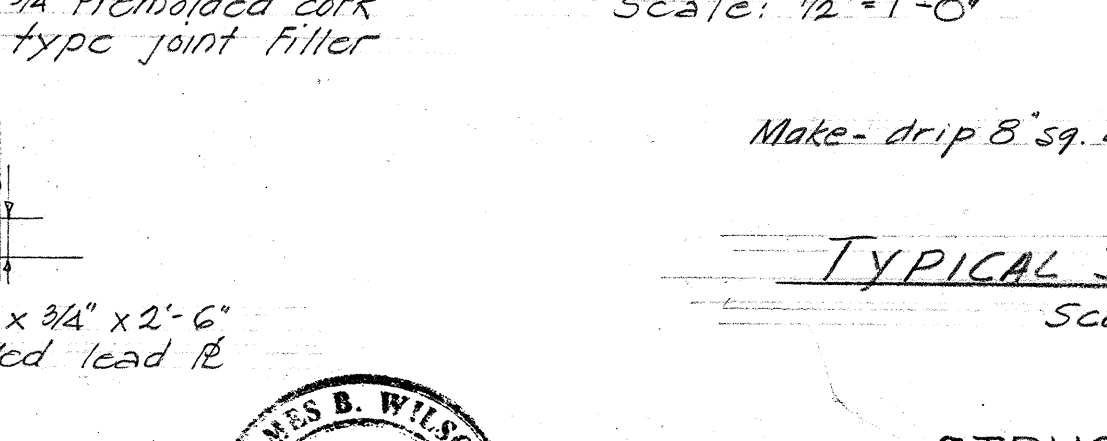
LOCATION OF FASTNERS
Scale: 1/2" = 1'-0"



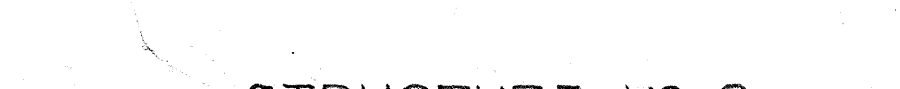
SECTION A-A
Scale: 1/4" = 1'-0"



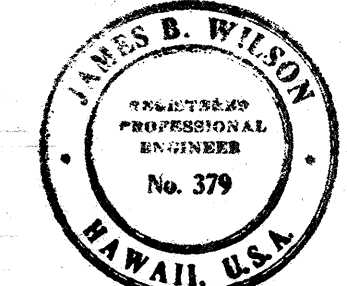
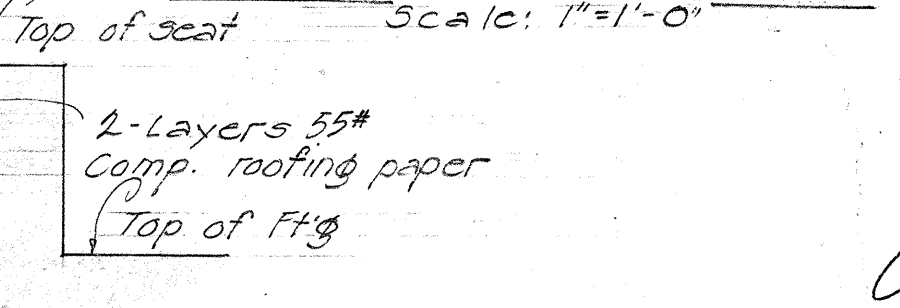
UTILITY COVER DETAIL
Scale: 1/2" = 1'-0"



TYPICAL SECT. AT DRAIN
Scale: 1" = 1'-0"

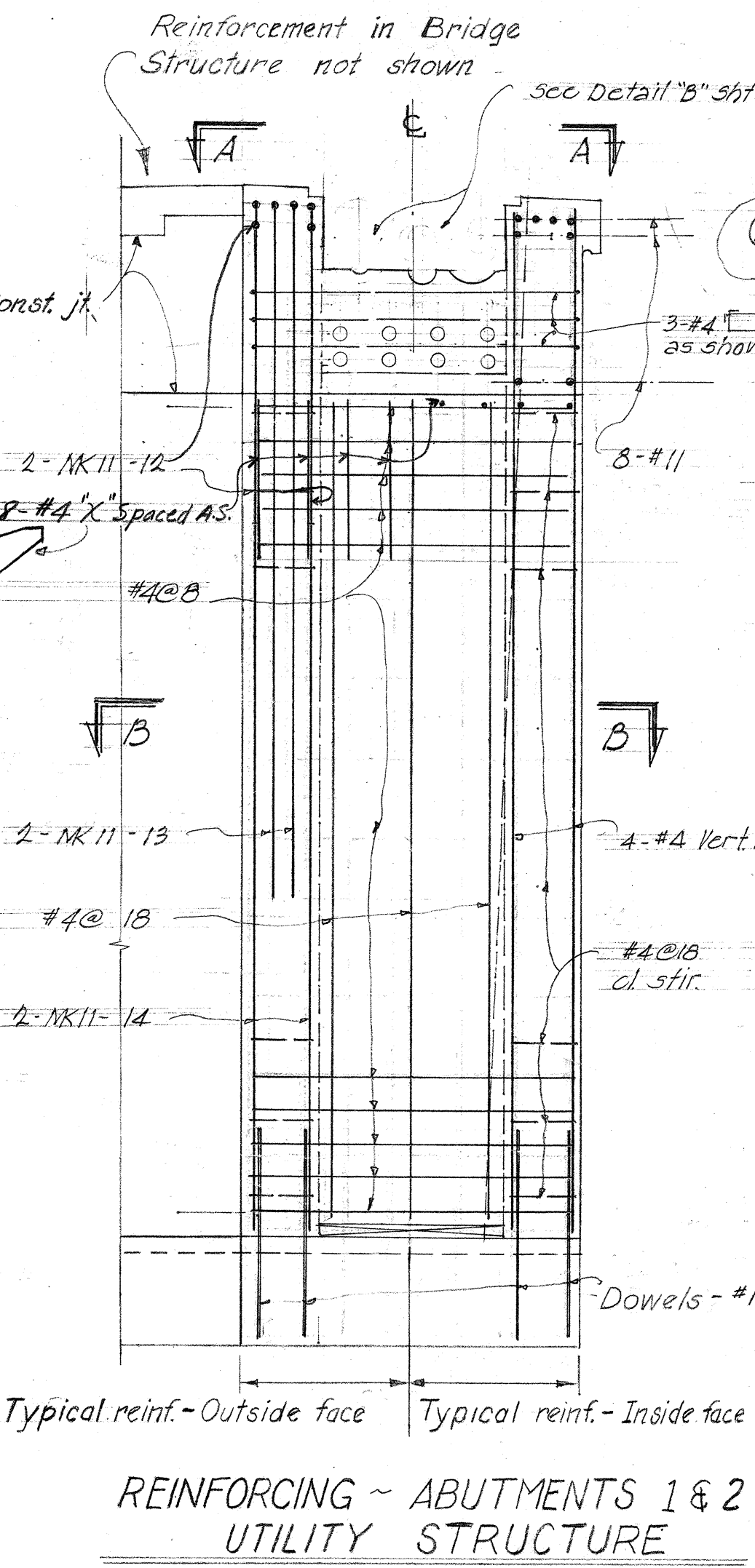


TYPICAL COLUMN HINGE DETAILS
Scale: 1" = 1'-0"

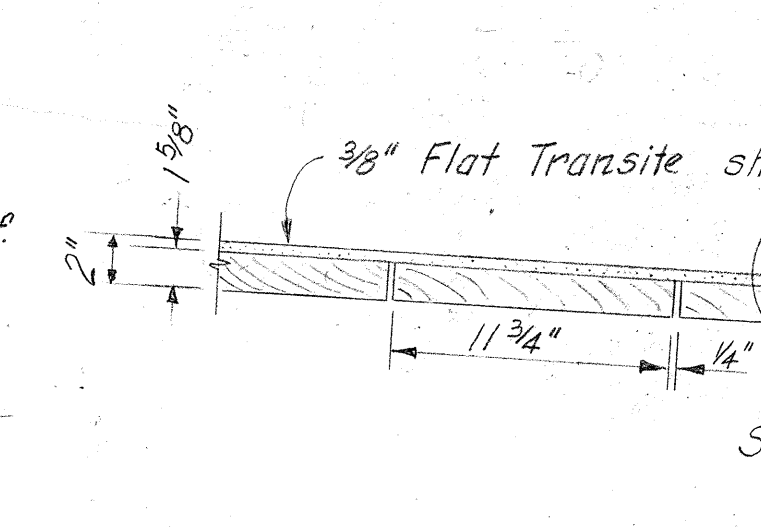


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DATE JUL 3 1957

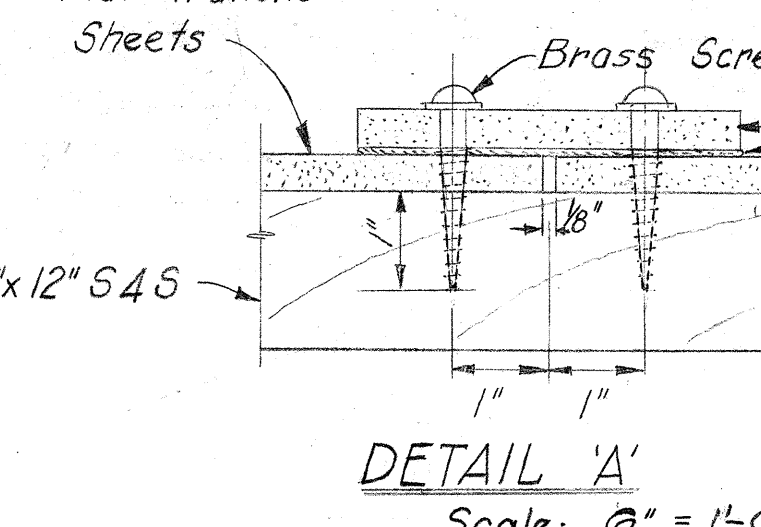
STRUCTURE NO. 9
TERRITORIAL HIGHWAY DEPARTMENT
TERRITORY OF HAWAII
LUNALILO FREEWAY
PROJECT NO. F-072-1(1), UNIT 3
GRADE SEPARATION AT
QUEEN EMMA STREET
UTILITY STRUCTURE DETAILS



SECTION "B-B"
Scale: 1/4" = 1'-0"



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



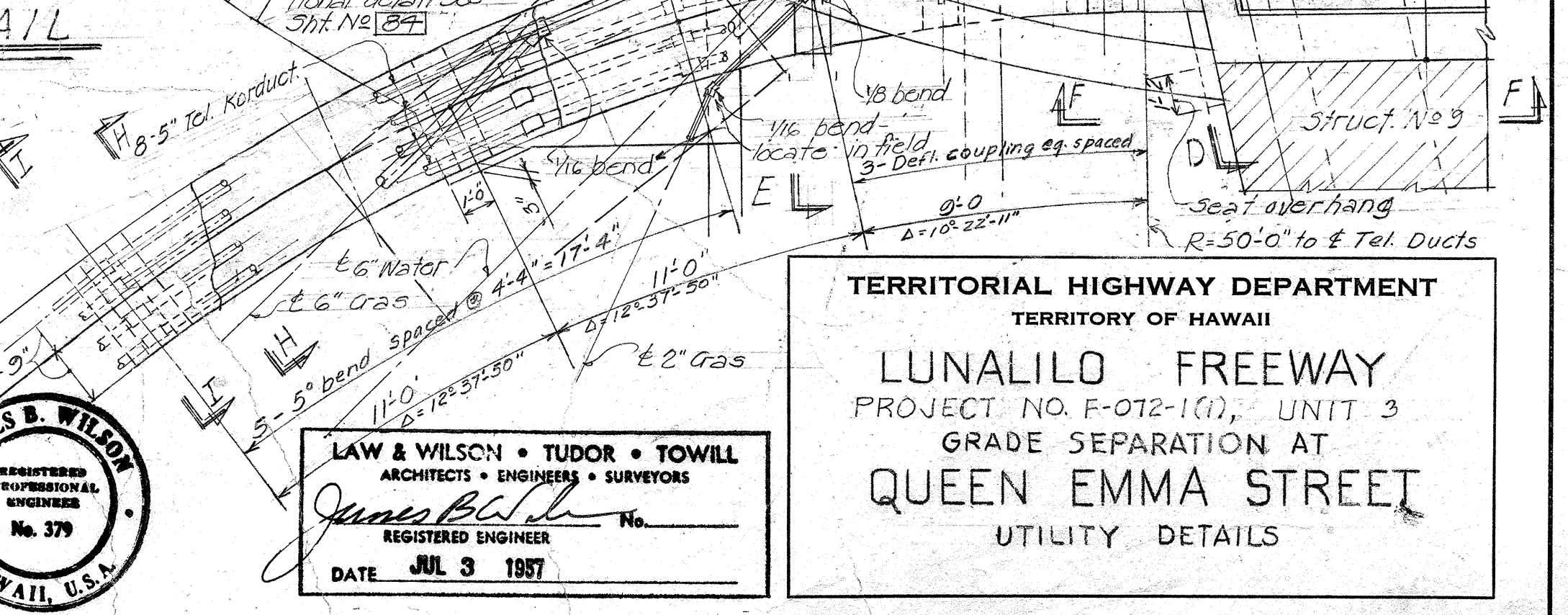
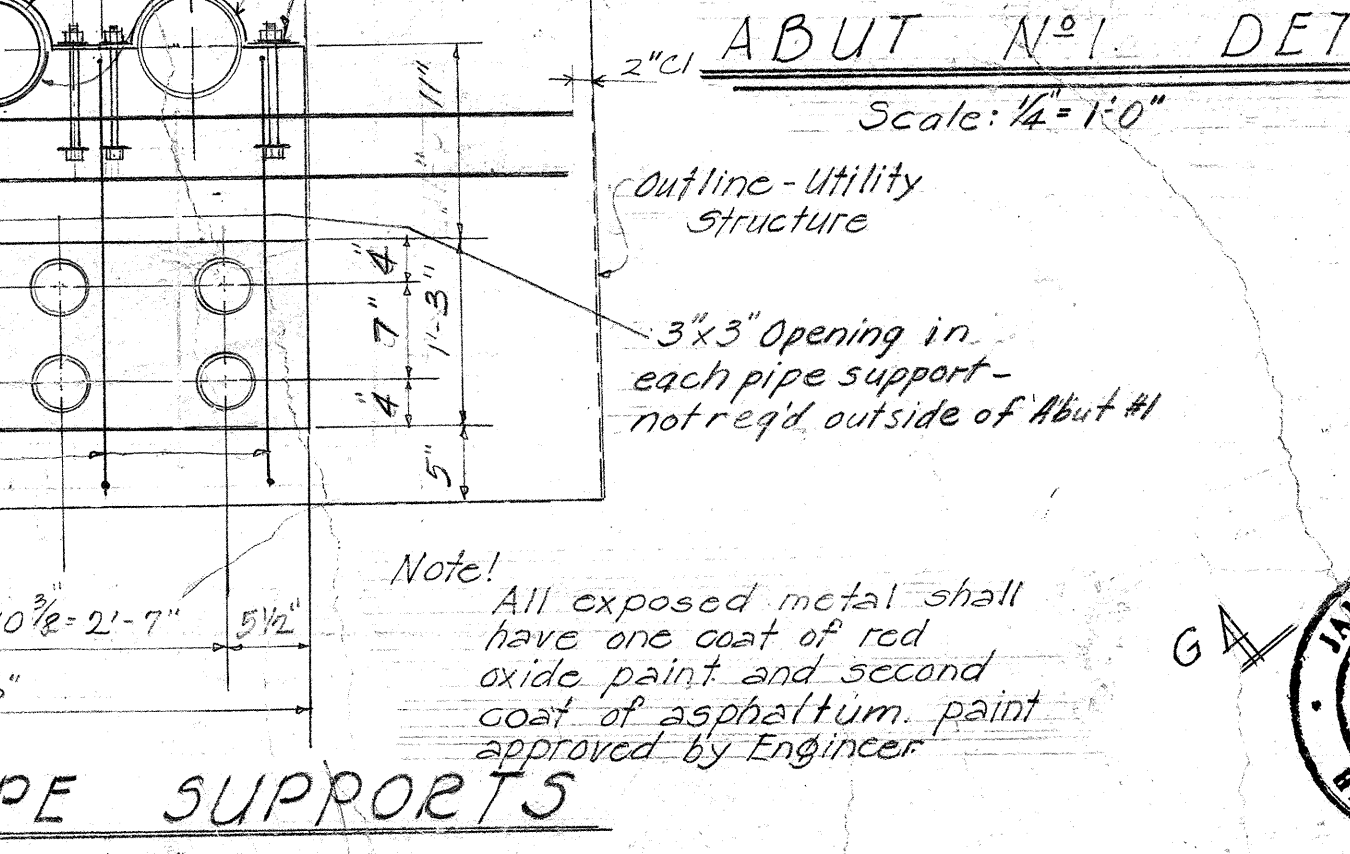
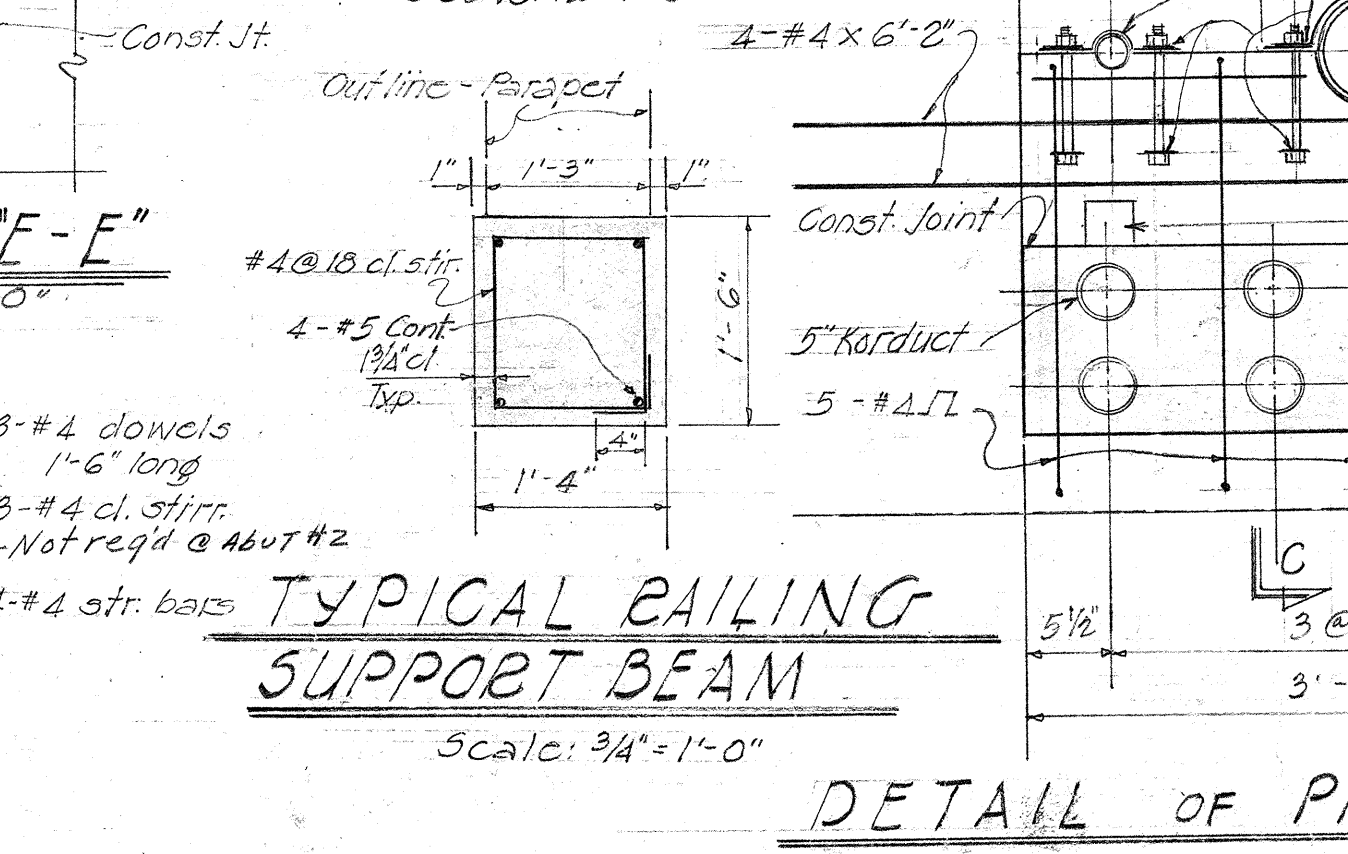
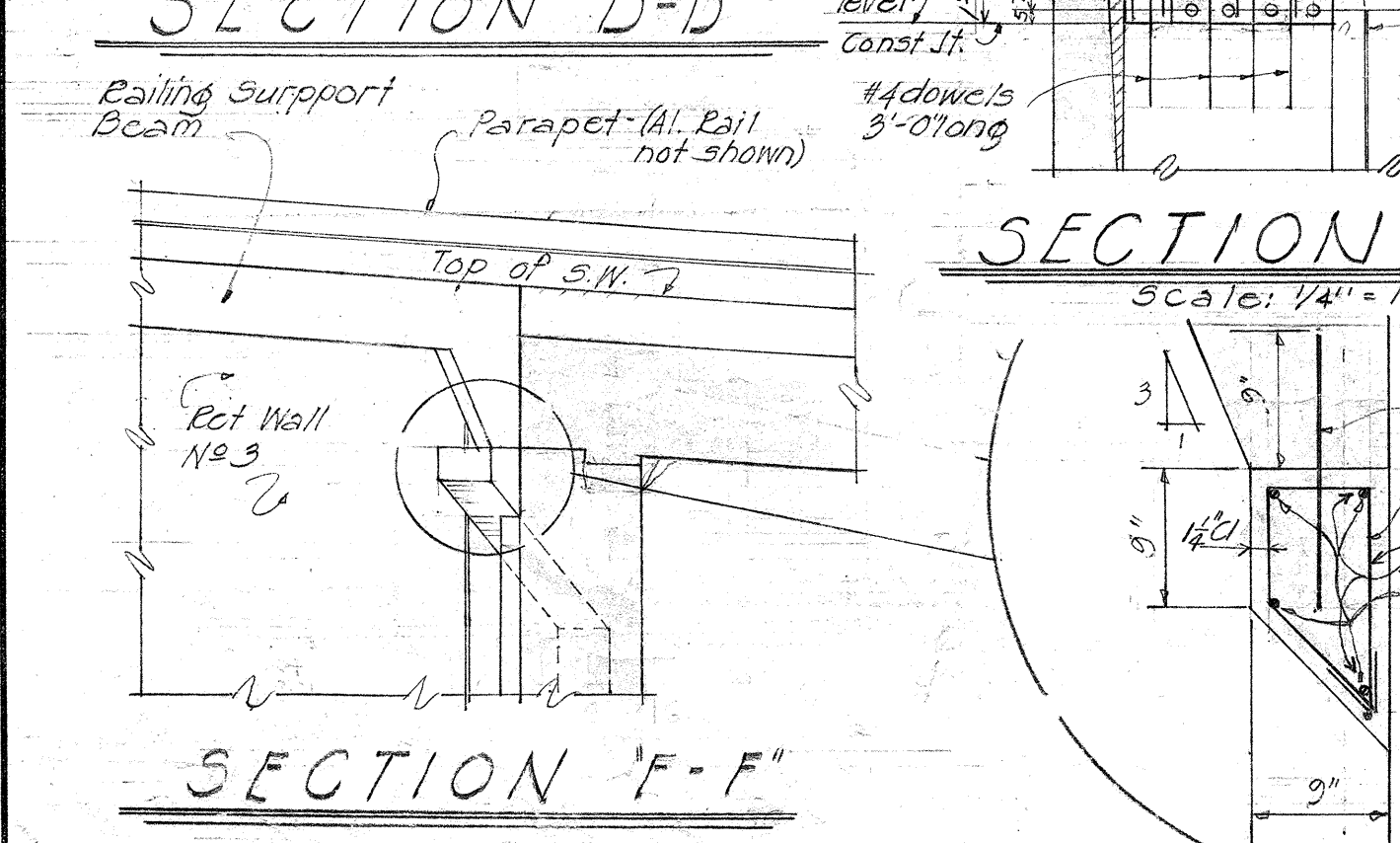
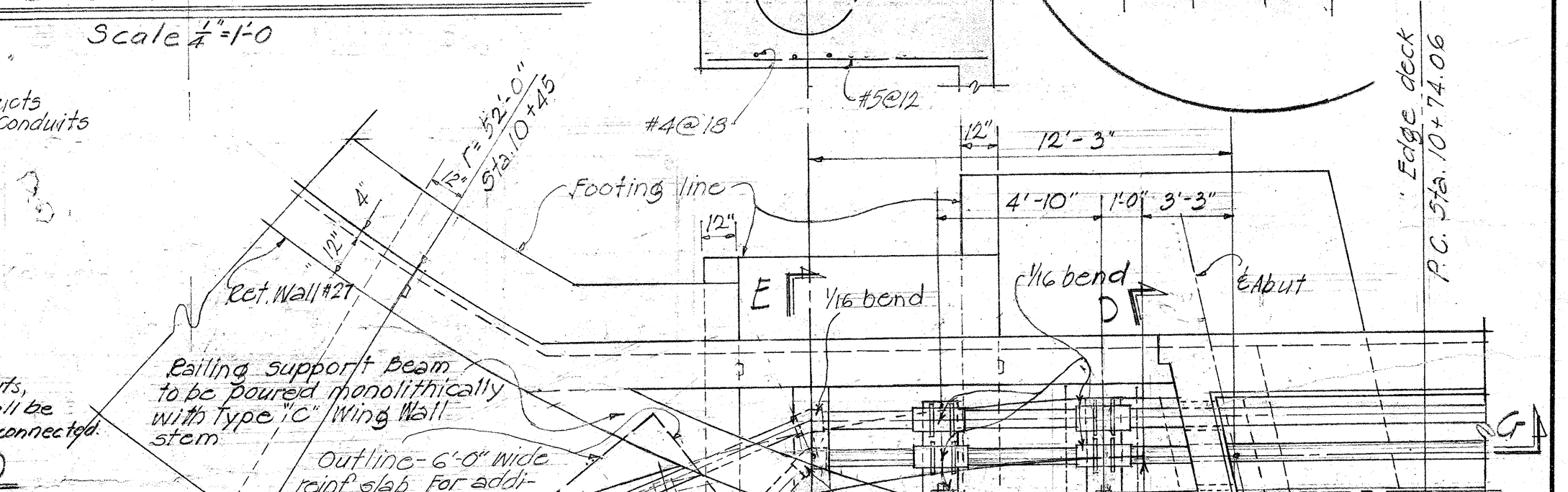
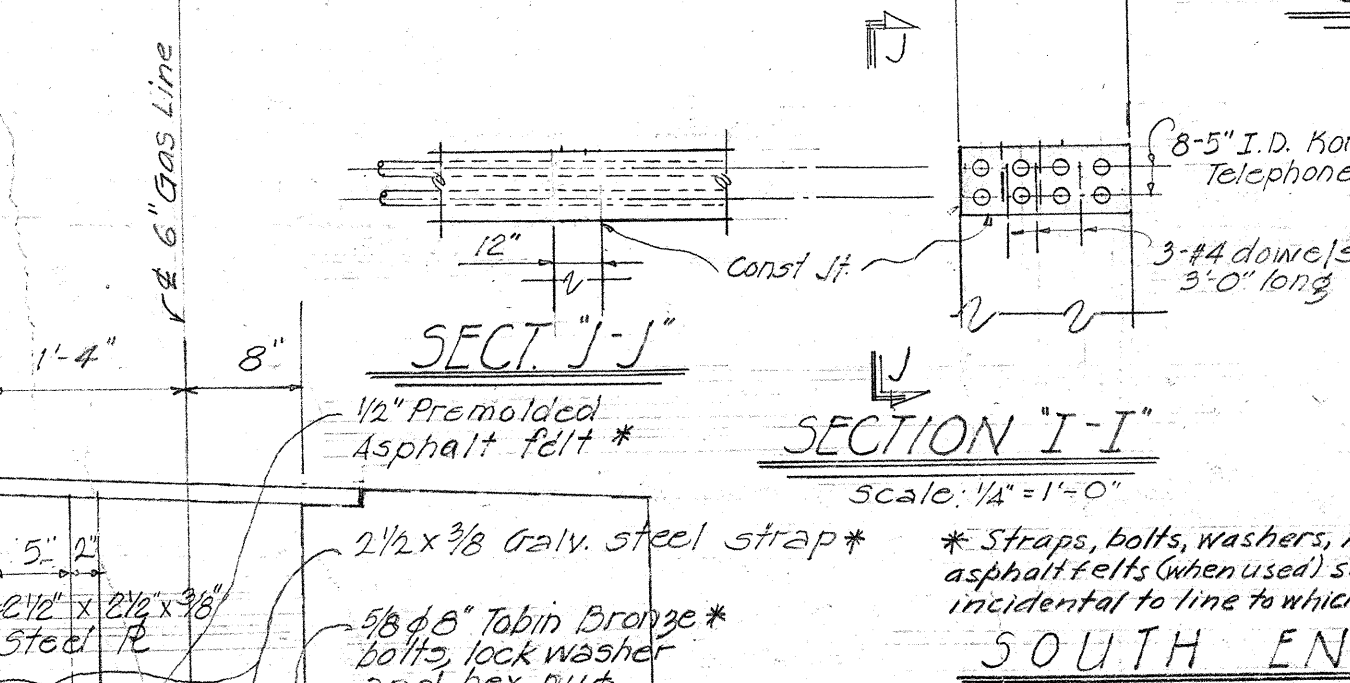
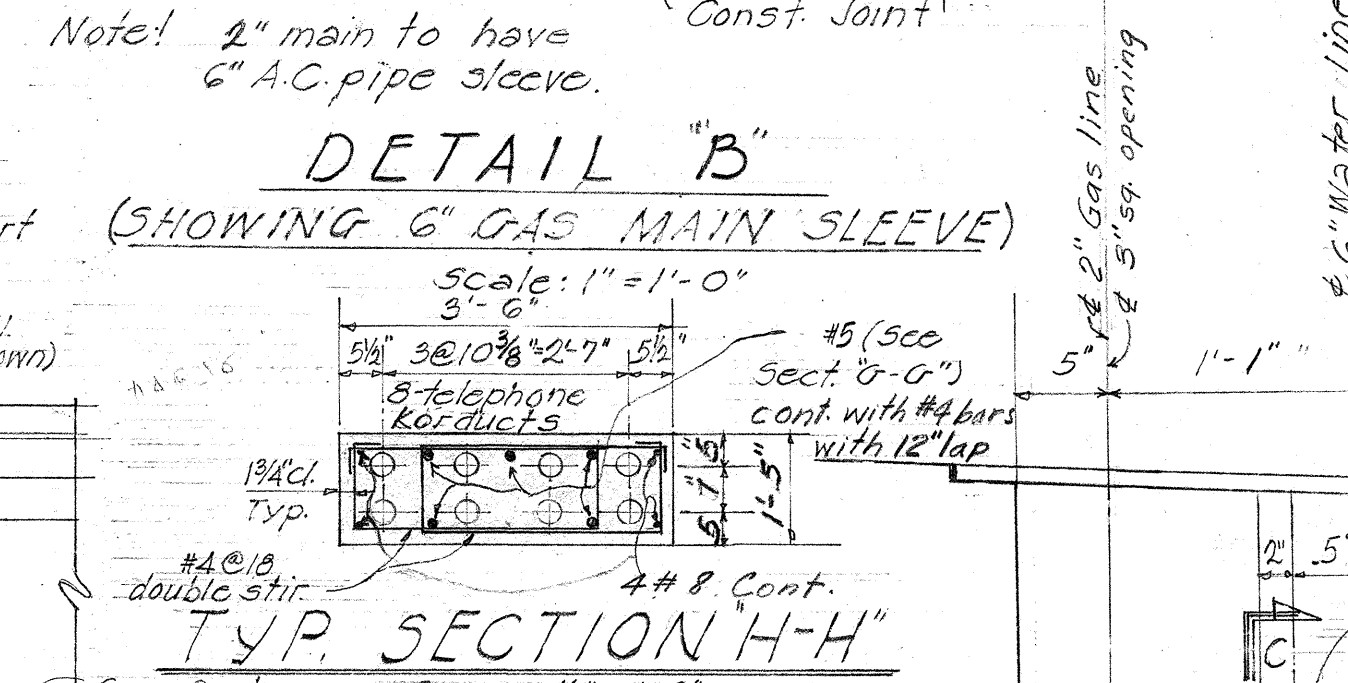
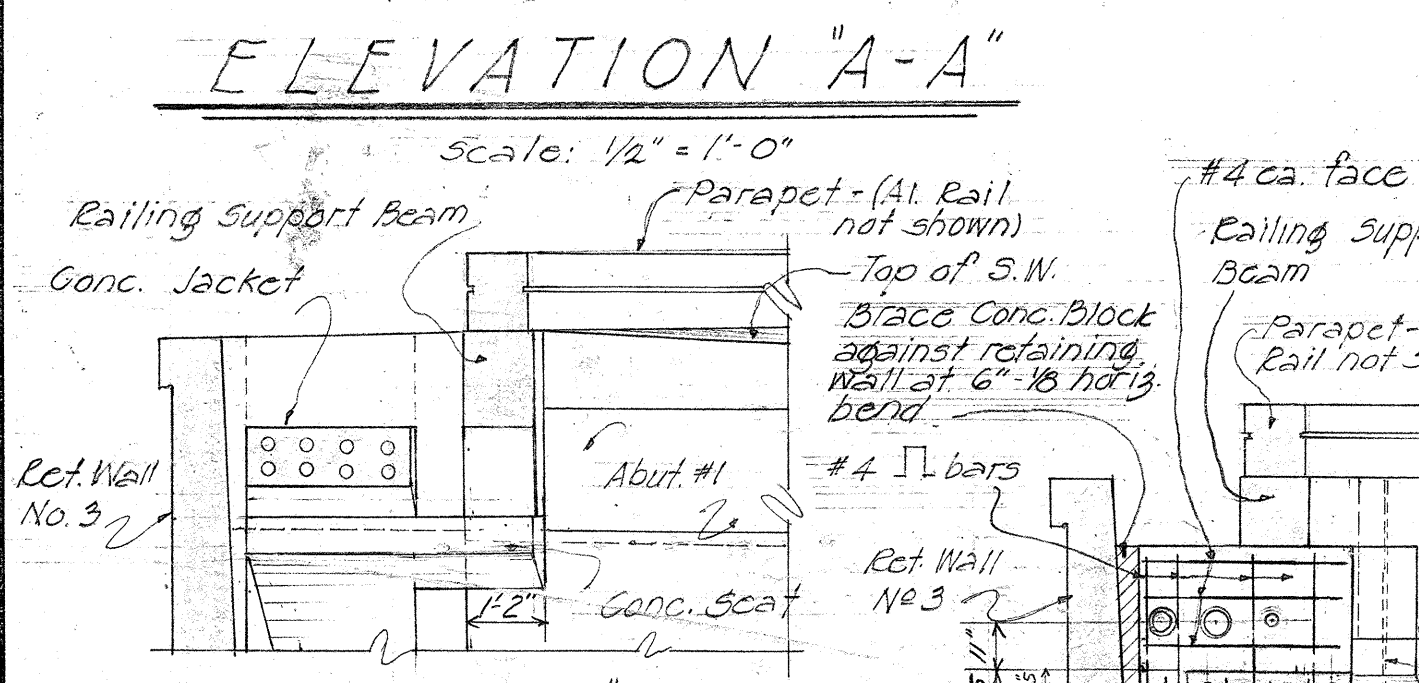
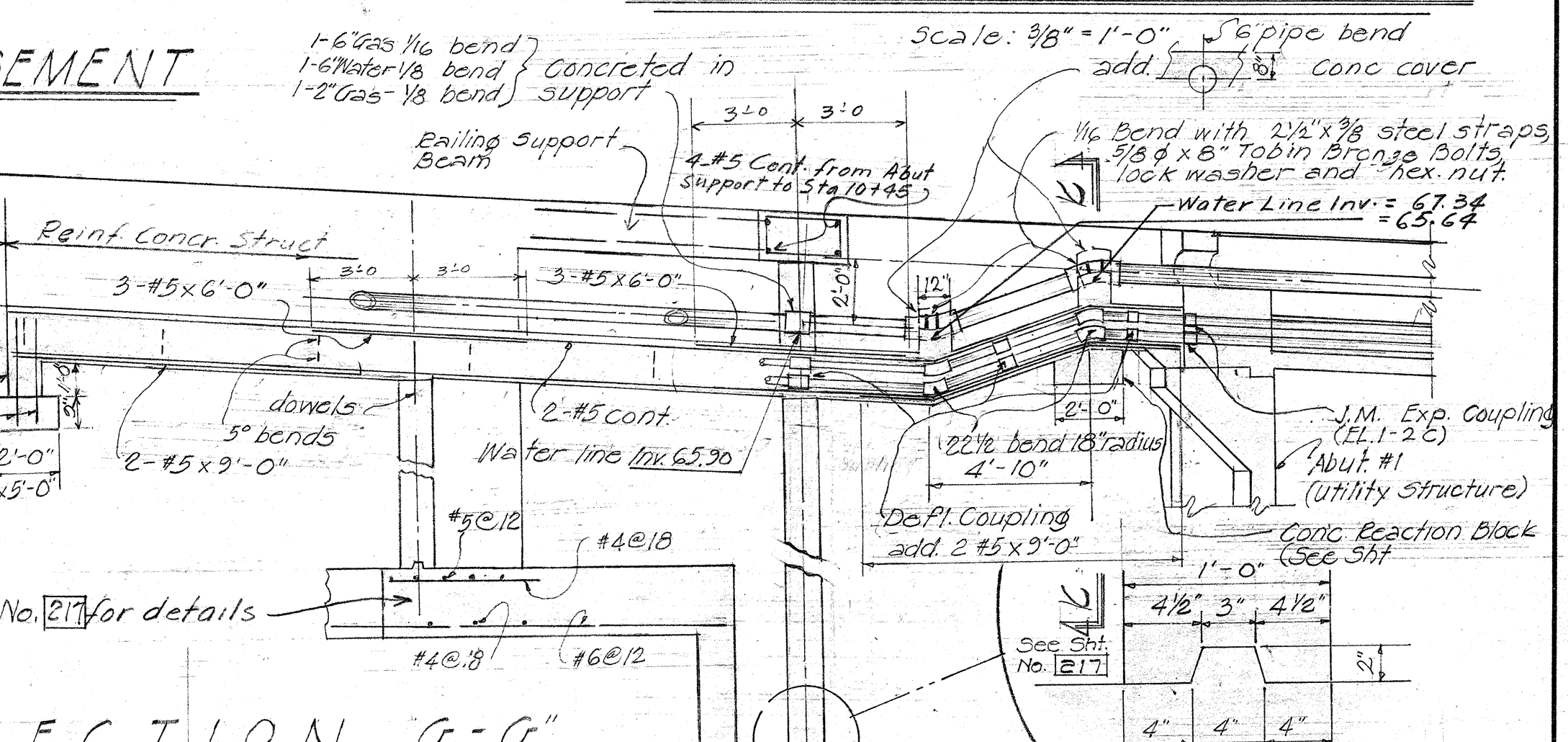
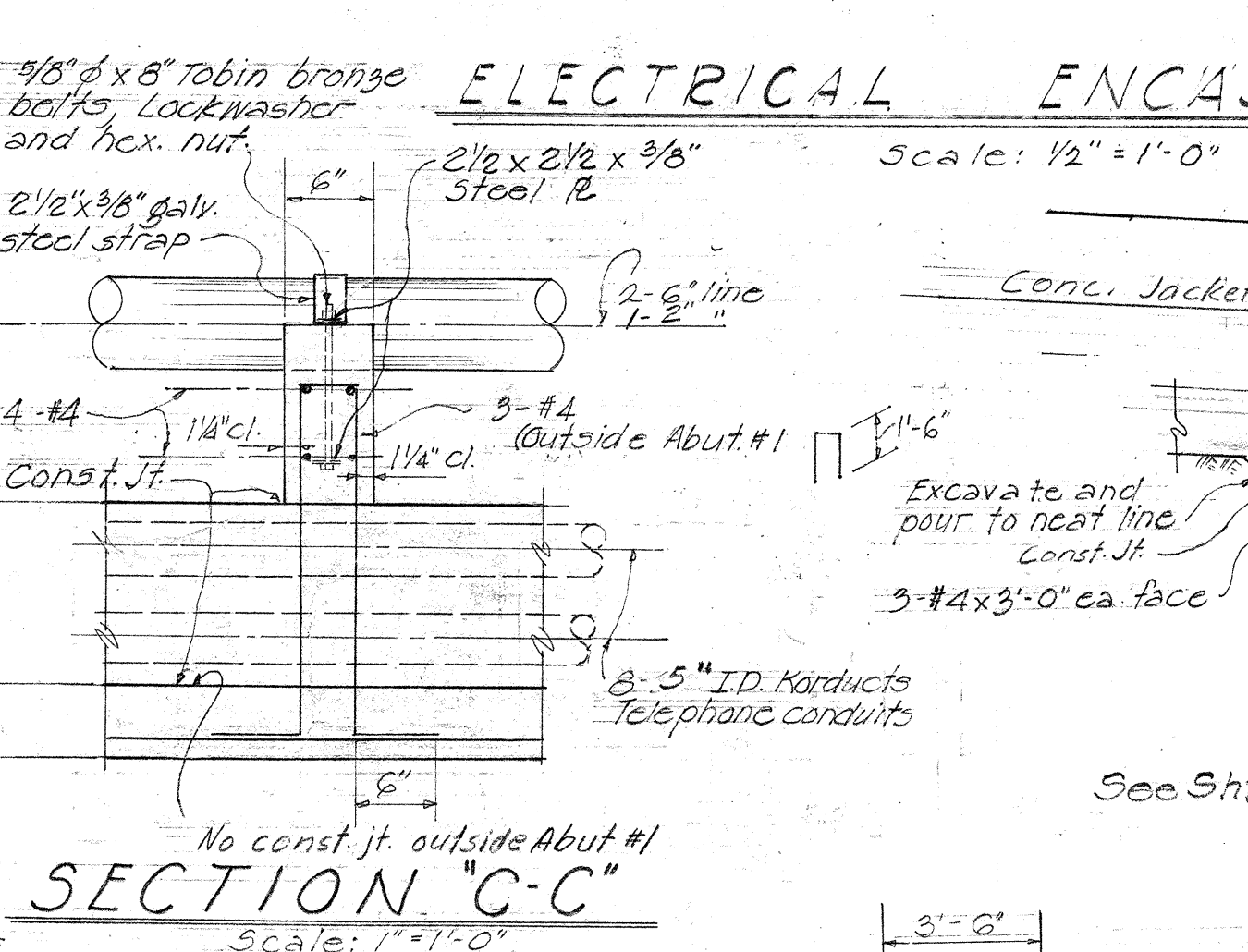
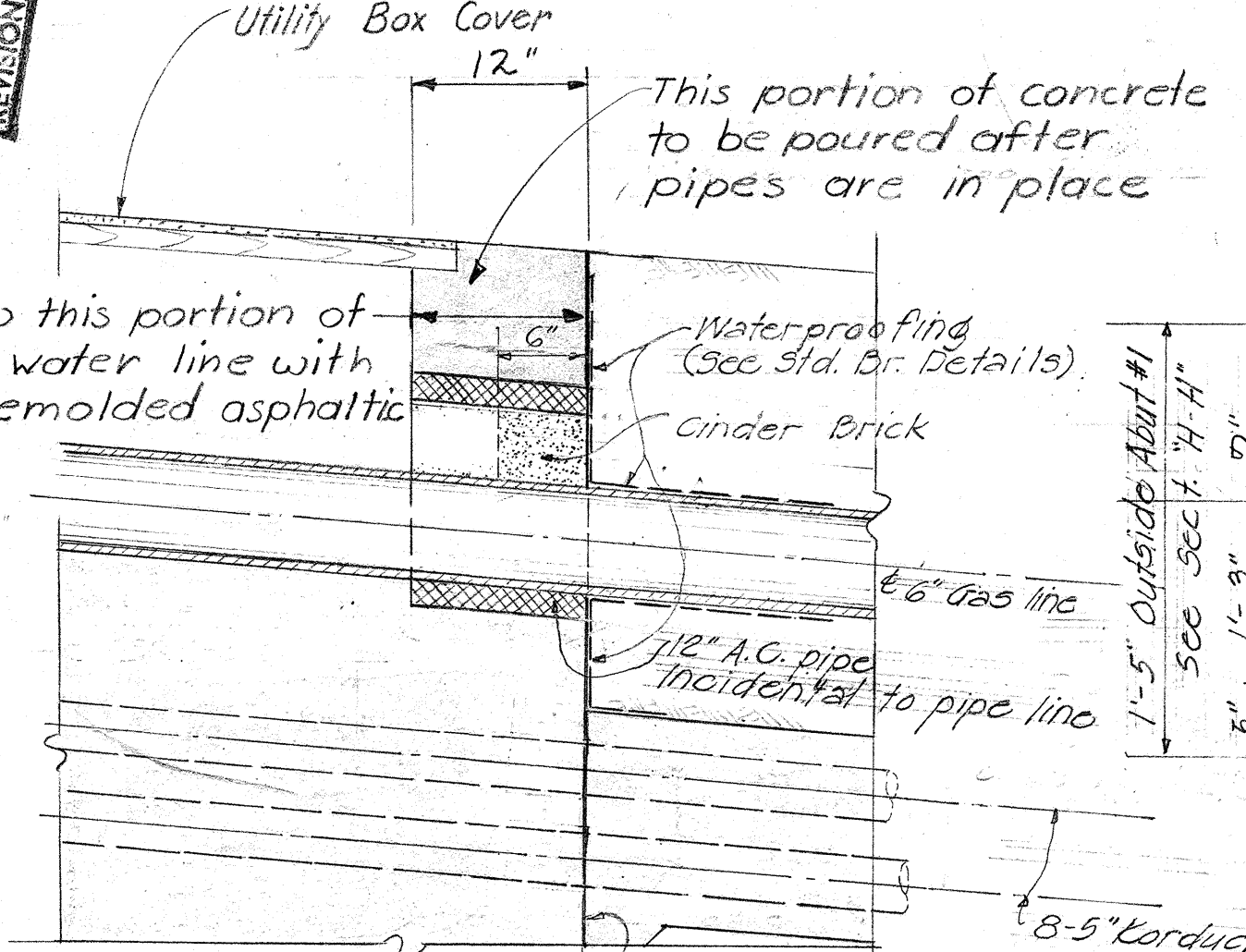
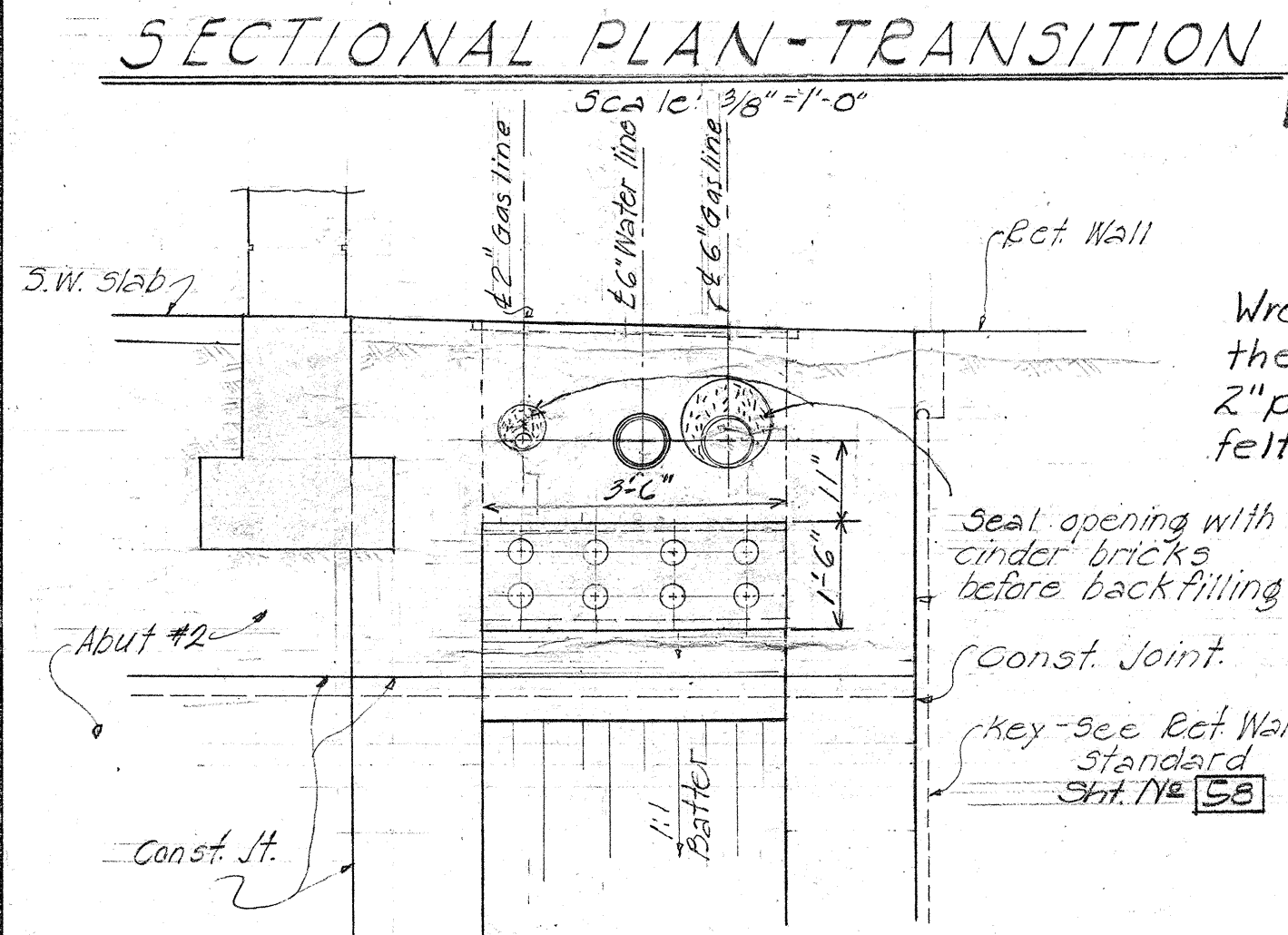
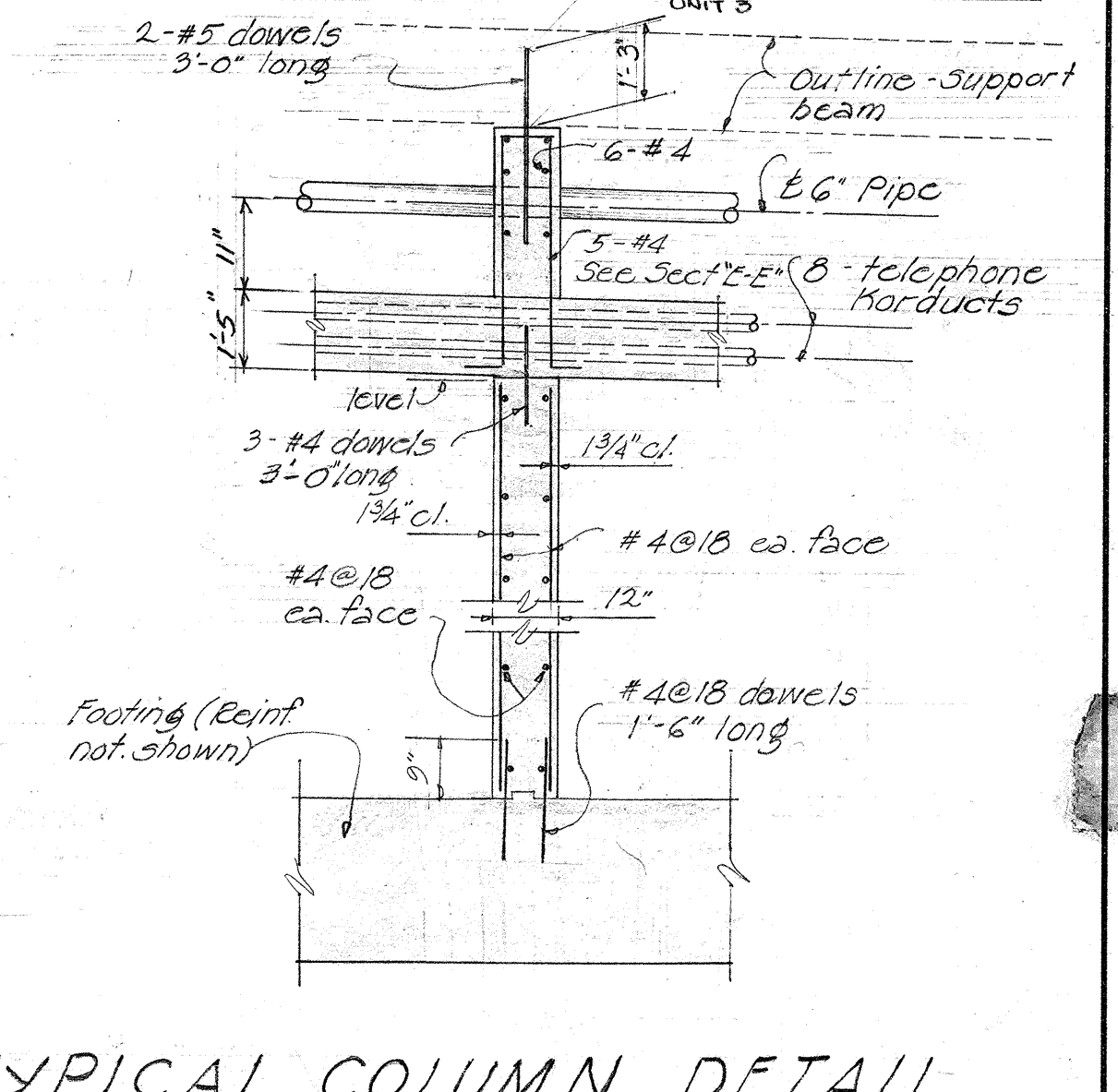
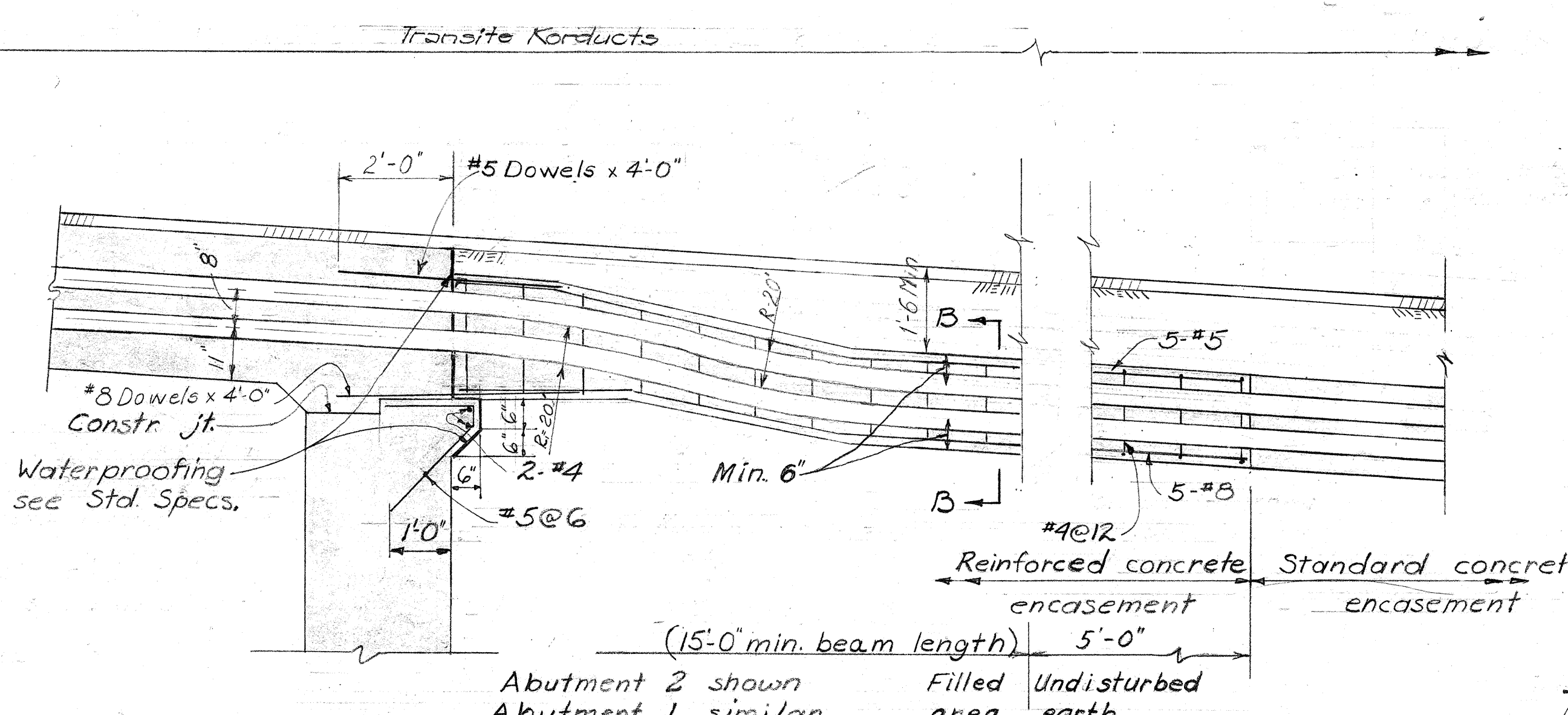
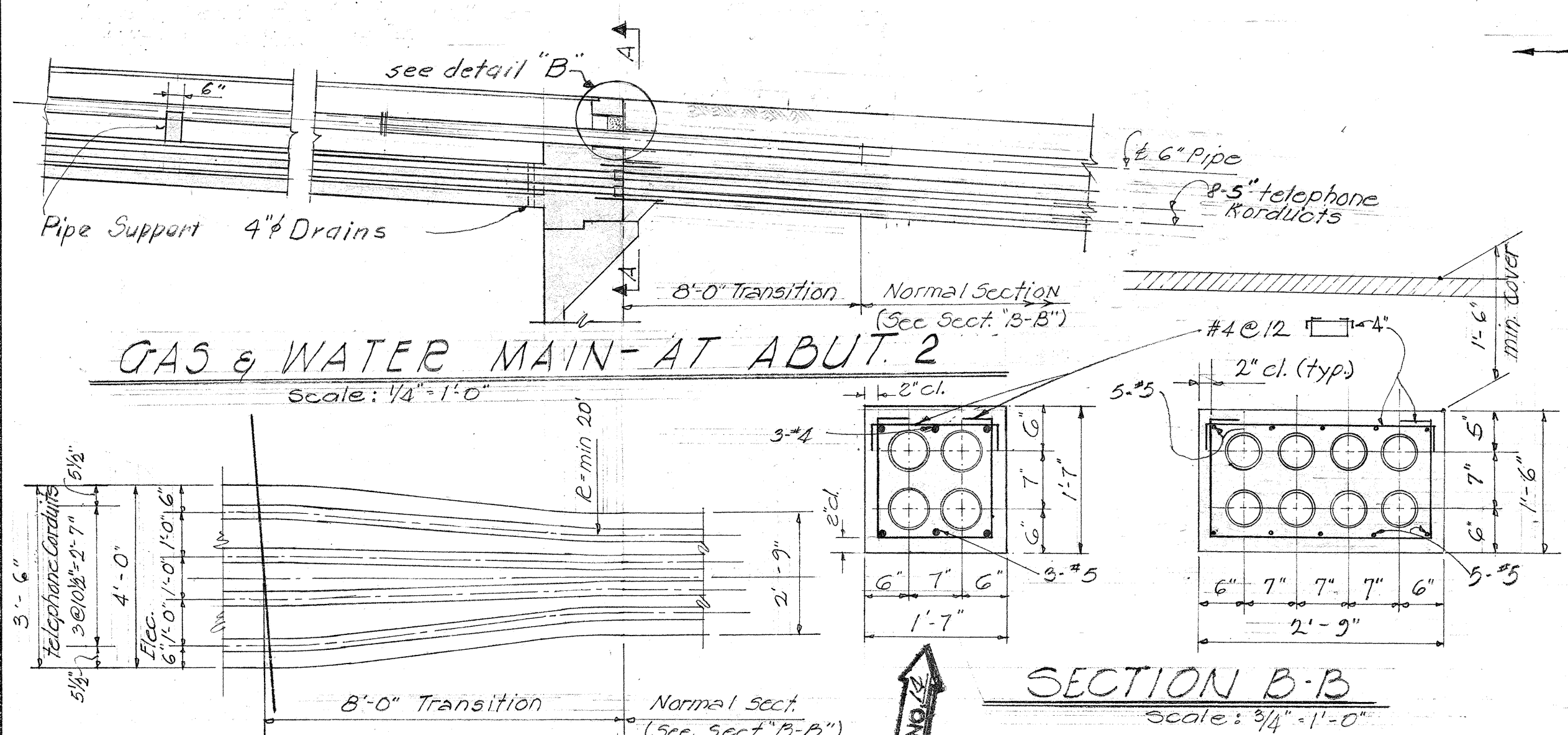
NOTE:
Flat Transite sheets and accessories, and waterproofing & asphalt seals shall be incidental to treated timber and will not be paid for separately.

DATE	DESIGNED BY	TRACED BY	QUANTITIES BY	CHECKED BY
5-28-57	J.B.W.	J.B.W.	J.B.W.	J.B.W.

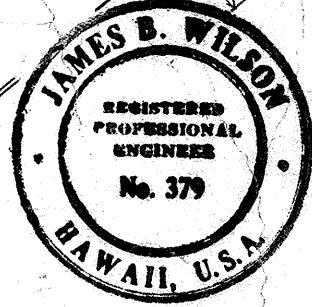
6" Gas main shown
2" Gas main similar

Revision # 14 March 14, 1961
4-5" 10. Electrical Conduit Korducts added

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW	F-012-1(1)	1960	126	128



DATE	3-28-57
DESIGNED BY	W.B.
DRAWN BY	KOR
CHECKED BY	W.B.
QUANTITIES CHECKED BY	W.B.
NOTED BY	W.B.



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James B. Wilson
REGISTERED ENGINEER
DATE JUL 3 1957

TERRITORIAL HIGHWAY DEPARTMENT
TERRITORY OF HAWAII
LUNALILO FREEWAY
PROJECT NO. F-012-1(1), UNIT 3
GRADE SEPARATION AT
QUEEN EMMA STREET
UTILITY DETAILS