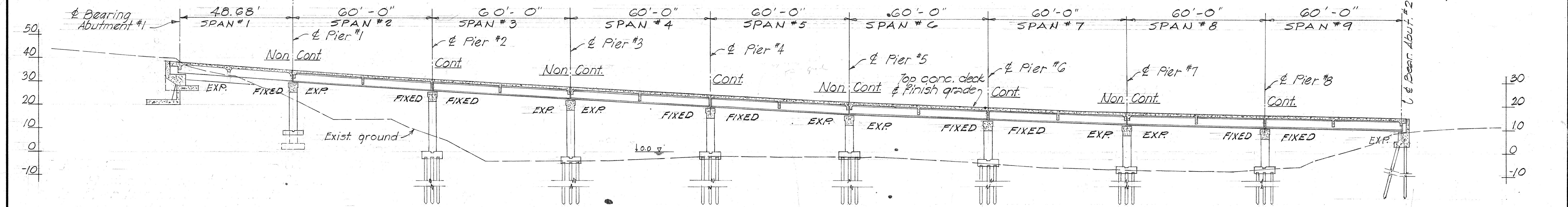
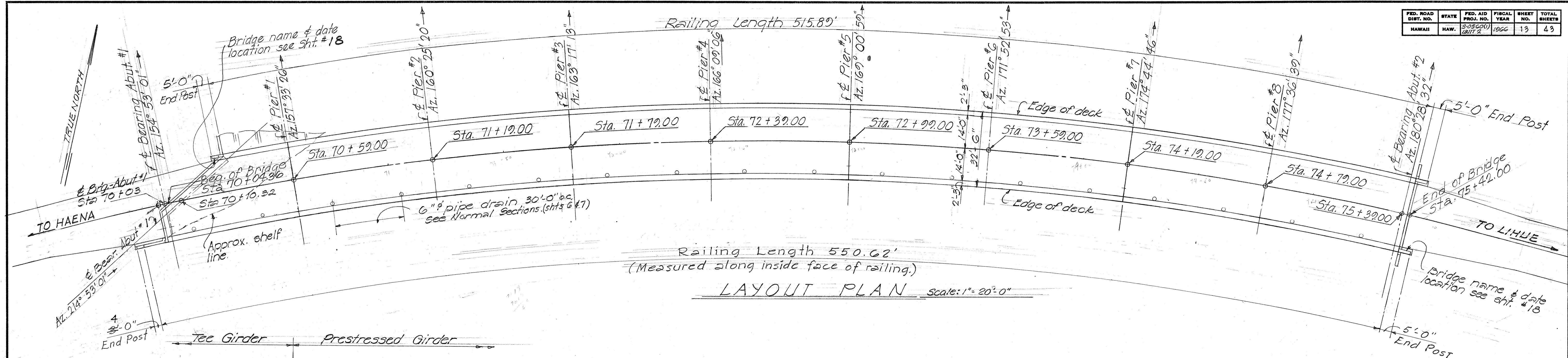
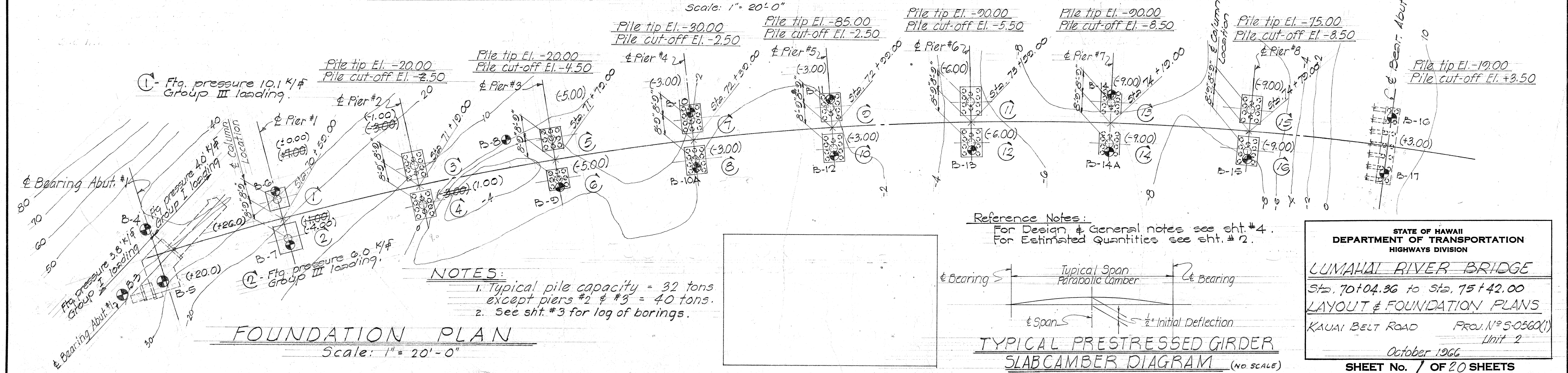


FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	5-0560(1) UNIT 2	1966	13	43



LONGITUDINAL SECTION ALONG & ROADWAY



NOTES:

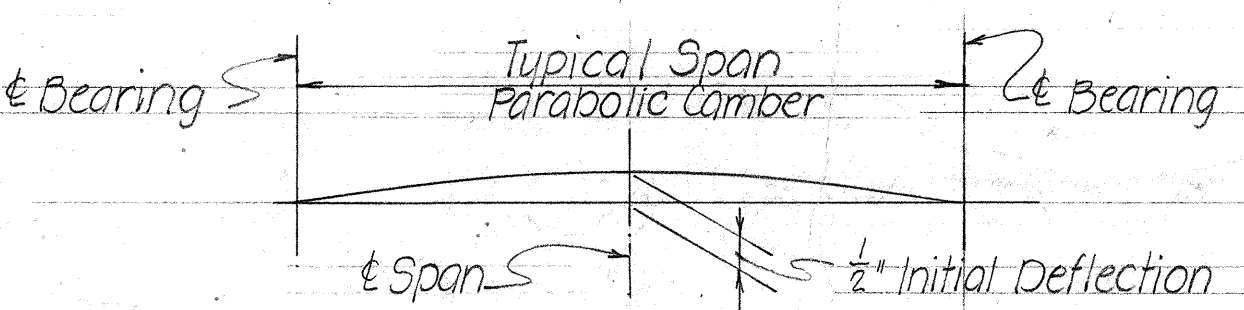
1. Typical pile capacity = 32 tons except piers #2 & #3 = 40 tons.
2. See sht. #3 for log of borings.

FOUNDATION PLAN

Scale: 1" = 20'-0"

Reference Notes:

For Design & General notes see sht. #4.
For Estimated Quantities see sht. #2.



TYPICAL PRESTRESSED GIRDER SLABCAMBER DIAGRAM (NO SCALE)

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

LUMAHAI RIVER BRIDGE

Sta. 70+04.36 to Sta. 75+42.00

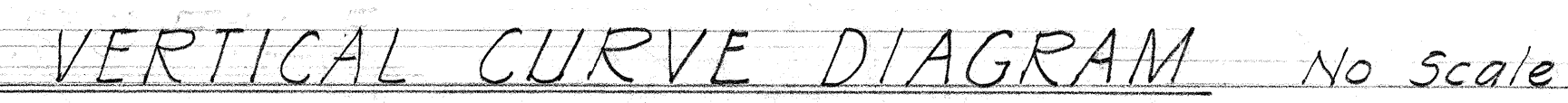
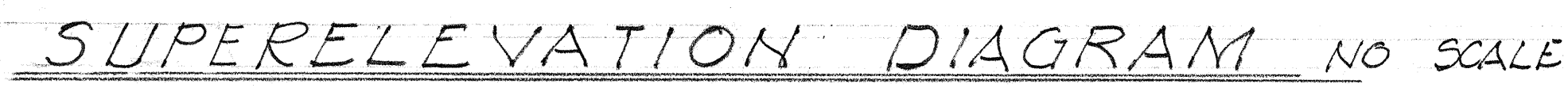
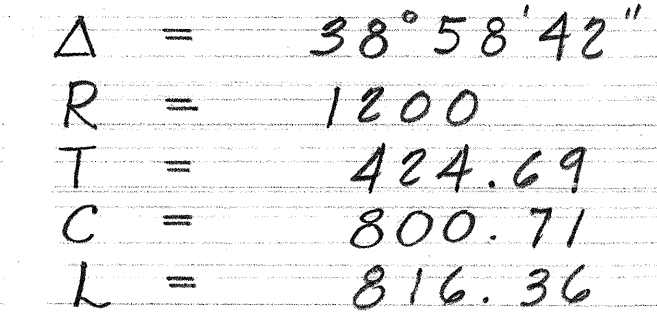
LAYOUT & FOUNDATION PLANS

KAUAI BELT ROAD PROJ. N° 5-0560(1) Unit 2

October 1966

SHEET No. 7 OF 20 SHEETS

ORIGINAL PLAN	SURVEY PLOTTED BY _____	DATE _____
NOTE BOOK	DRAWN BY <u>S.P.</u>	# <u>1966</u>
	TRACED BY _____	# _____
	DESIGNED BY <u>V.C.</u>	# <u>1</u>
	QUANTITIES BY _____	# _____
No. _____	CHECKED BY <u>P.T.V. J.O.</u>	# <u>11</u>



<u>ESTIMATED QUANTITIES</u>		
Concrete	(1,140 C.Y.)	Lump Sum
Reinforcing Steel	(263,325 LB.)	Lump Sum
Structural Exc.		715 C.Y.
Filter Material		20 C.Y.
Prestressed Conc. Girder (1,908 L.F.)		Lump Sum
Prestressed Conc. Piles	8,530	Lin. Ft.
Metal Bridge Railing	7,067	Lin. Ft.

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

LUMAHAI RIVER BRIDGE

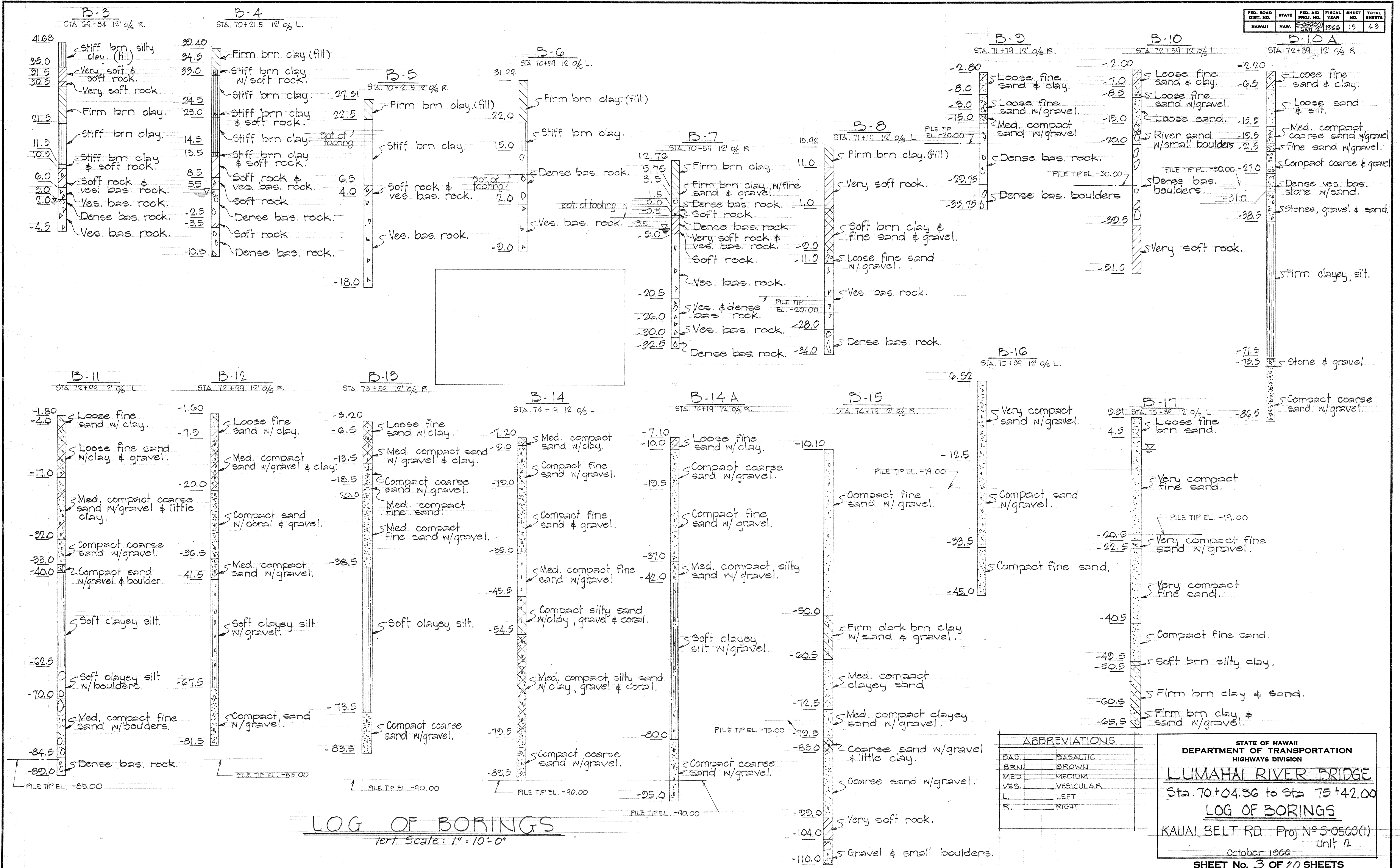
Sta. 70 + 04.36 to Sta. 75 + 42.00

GRADING PLAN & DIAGRAM

KAUAI BELT ROAD Proj. N° S-0560(1)

Oct. 1966 Unit 2

SHEET No. 2 OF 20 SHEETS



GENERAL NOTES

DESIGN SPECIFICATIONS: AASHTO

1. Standard Specifications for Highway Bridges (8th Edition) with subsequent additions and modifications.
2. Live load: HS 20-44

DESIGN STRESSES:

1. Reinforced Concrete
See AASHTO specifications except as otherwise noted and see special provisions.

$$f_c = 1,200 \text{ psi}$$

$$n = 10$$

$$f_s = 20,000 \text{ psi tension}$$

2. Prestressed Beams

$$f_c = 5,500 \text{ psi at 28 days}$$

$$f_{ci} = 4,000 \text{ psi at transfer}$$

$$1/2 \text{ dia. 7 wire strands}$$

$$\text{Tensioning load} = 25,200 \text{ lbs. per strand}$$

$$\text{Design load} = 20,160 \text{ lbs. per strand}$$

Forms must be removed and the beam inspected before the strands are cut.

MATERIALS:

1. All concrete shall be Class A-1 except as otherwise noted on plans. Concrete for prestressed concrete girders see Special Provisions and as noted above. All cement shall be Type I.
2. Neoprene pads are incidental to prestressed concrete girders and will not be paid for separately.
3. See Special Provisions for admixture in concrete.
4. All piles to be prestressed conc., Type I, precast concrete or cast-in-place conc. piles - see Std. Details sht. #52 & 52-A.

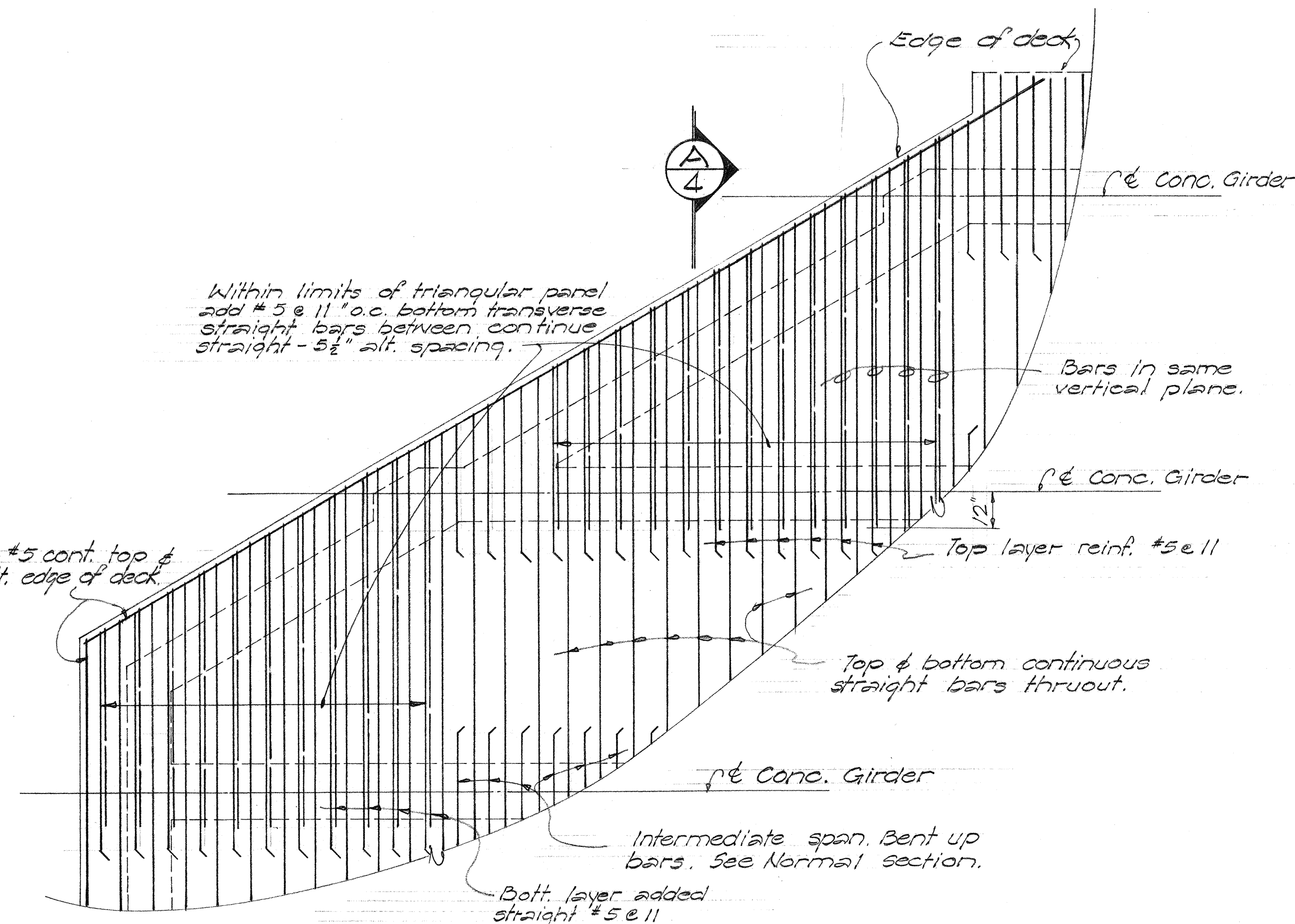
CONSTRUCTION METHODS:

1. See Standard Specifications and Special Provisions.
2. Except for footings on piles and as otherwise noted, all other footings shall be excavated and poured to neat lines. In case of over excavation, space between footing and ground shall be filled with concrete at the Contractor's expense. The fill concrete shall have a minimum quality of Class D-1. Limits of excavation for pile footings see corresponding details.
3. The Contractor shall verify the location of all existing utility lines and notify the respective owners before commencing work of excavation or pile driving.
4. All fill behind abutments and wingwalls shall be complete in place before placing superstructure and prestressed concrete girders.
5. For concrete finish see Special Provisions. Concrete seats and creep blocks to be poured monolithically with pier or abutment sections. Seats shall receive a hard trowel finish, level & true elevations.
6. Neoprene pads shall be secured against displacement by adhesives, which shall be approved by the Engineer.

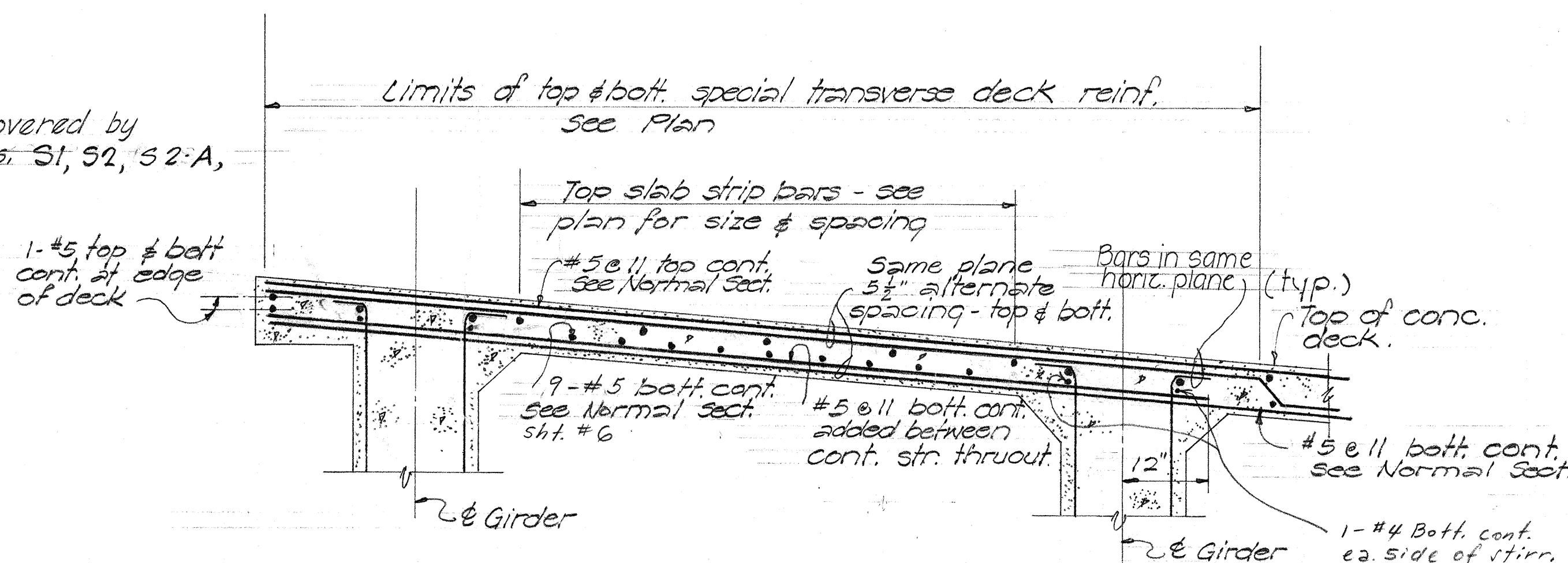
SYMBOLS:

- (No.) - Denotes column numbers.
 (A) - Alphabet section number description
 (2) - Sheet no. detail is drawn on.
 P.I. - Point of intersection
 W.P. - Working point
 (B) = Boring
 (+10) = Bottom of footing elevation (B.F.E.)

For additional details and general notes not covered by these drawings, refer to Standard Drawings, Shts. 51, 52, 52-A, 53, 54, 55 & 56.



PART PLAN - TYPICAL ARRANGEMENT OF TOP SLAB REINFORCEMENT AT SKEWED END



AT NON-CONTINUOUS END

TYPICAL SECTION (A) THRU TOP SLAB SHOWING ARRANGEMENT OF SPECIAL TRANSVERSE DECK REINFORCEMENT

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	5-0560(1) UNIT 2	1966	10	49

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

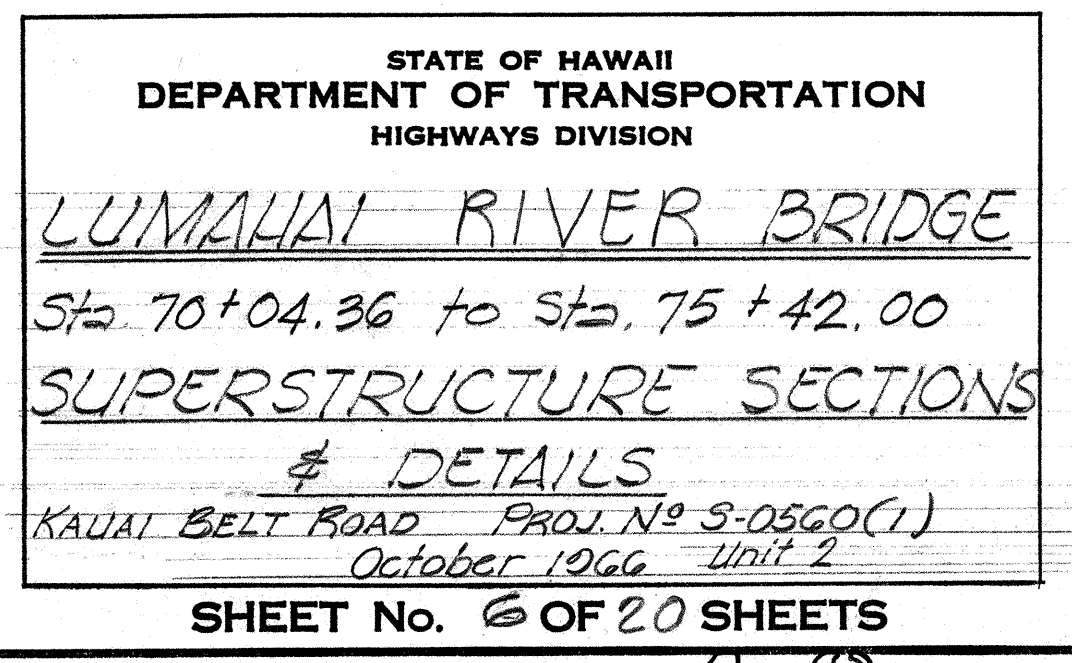
LUMAHAI RIVER BRIDGE
Sta. 70+04.36 to Sta. 75+42.00
TYPICAL DETAILS & SCHEDULE
KAUAI BELT ROAD PROJ. N°S-0560(1)
Oct. 1966 Unit 2

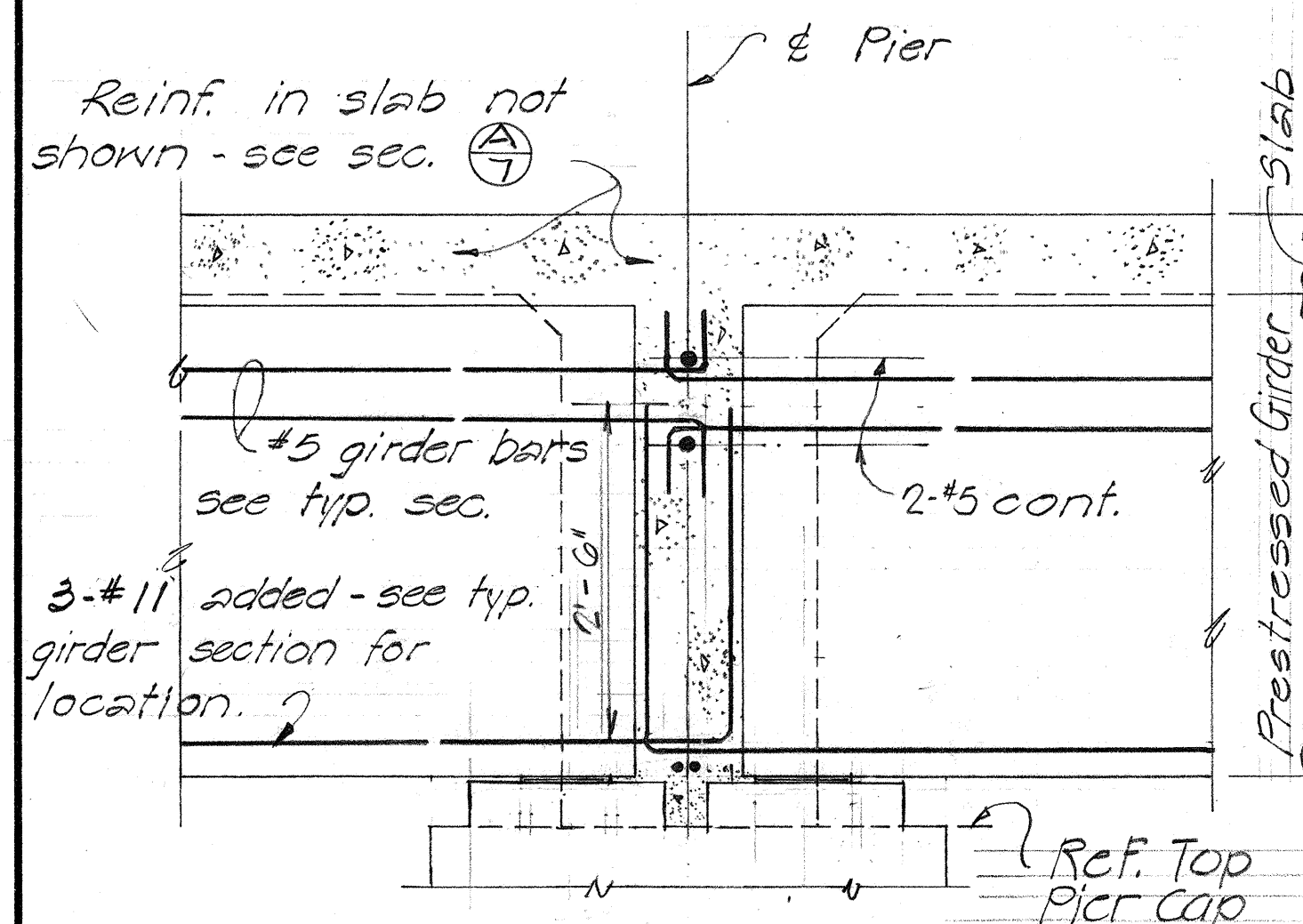
SHEET No. 4 OF 20 SHEETS

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	5-0560(1)	1966	17	43



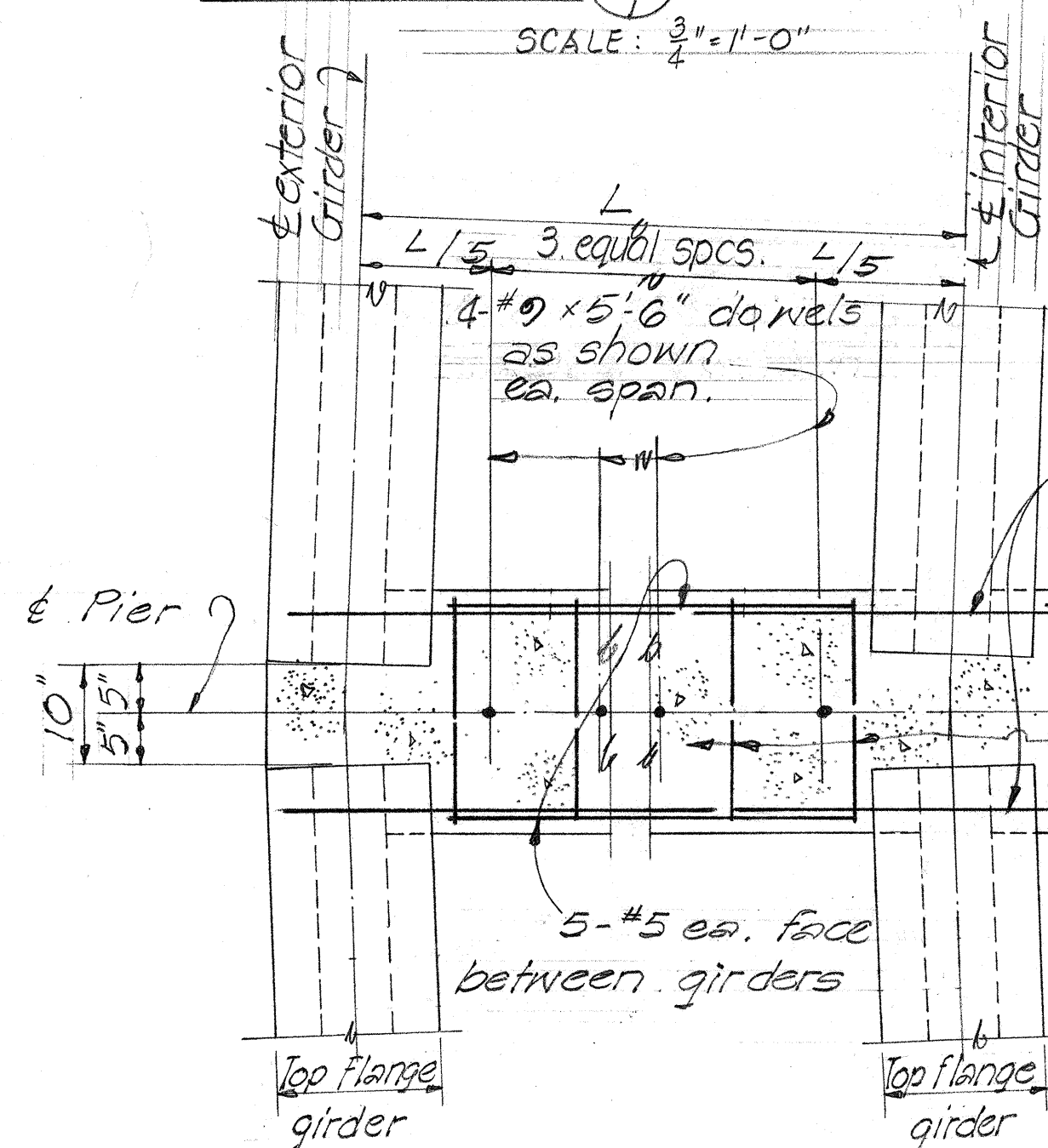
ORIGINAL PLAN	SURVEY PLOTTED BY	DATE
	DRAWN BY	1966
	TRACED BY	
NOTE BOOK	DESIGNED BY	
	QUANTITIES BY	
No.	CHECKED BY	





SECTION (B) (AT GIRDER)

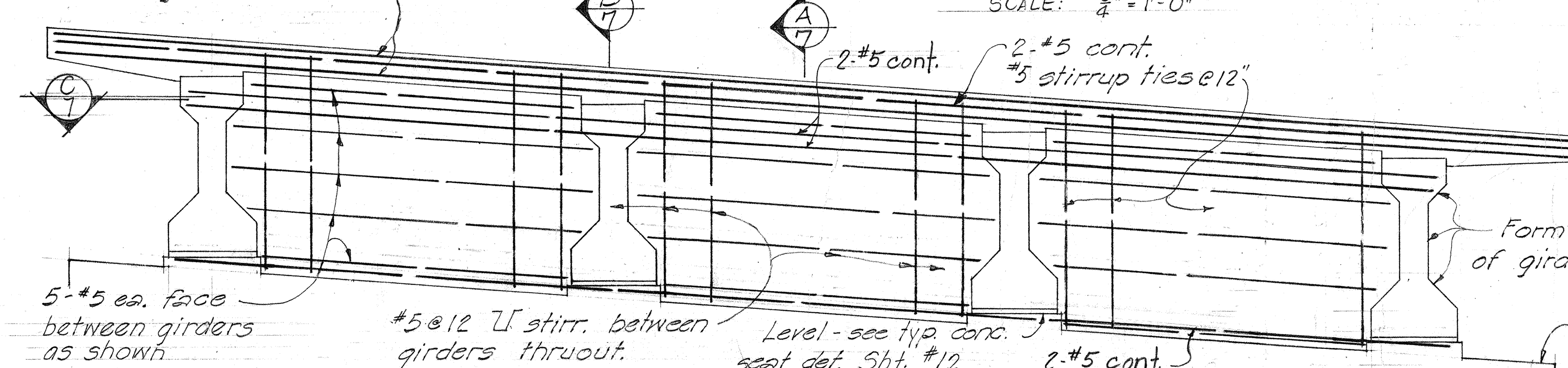
SCALE: $\frac{3}{4}$ " = 1'-0"



TRANSVERSE BEAM "D" - PLAN
TYPICAL ARRANGEMENT & LOCATION
OF TRANSVERSE BEAM REINFORCEMENT
AT GIRDERS

Scale: $\frac{3}{4}$ " = 1'-0"

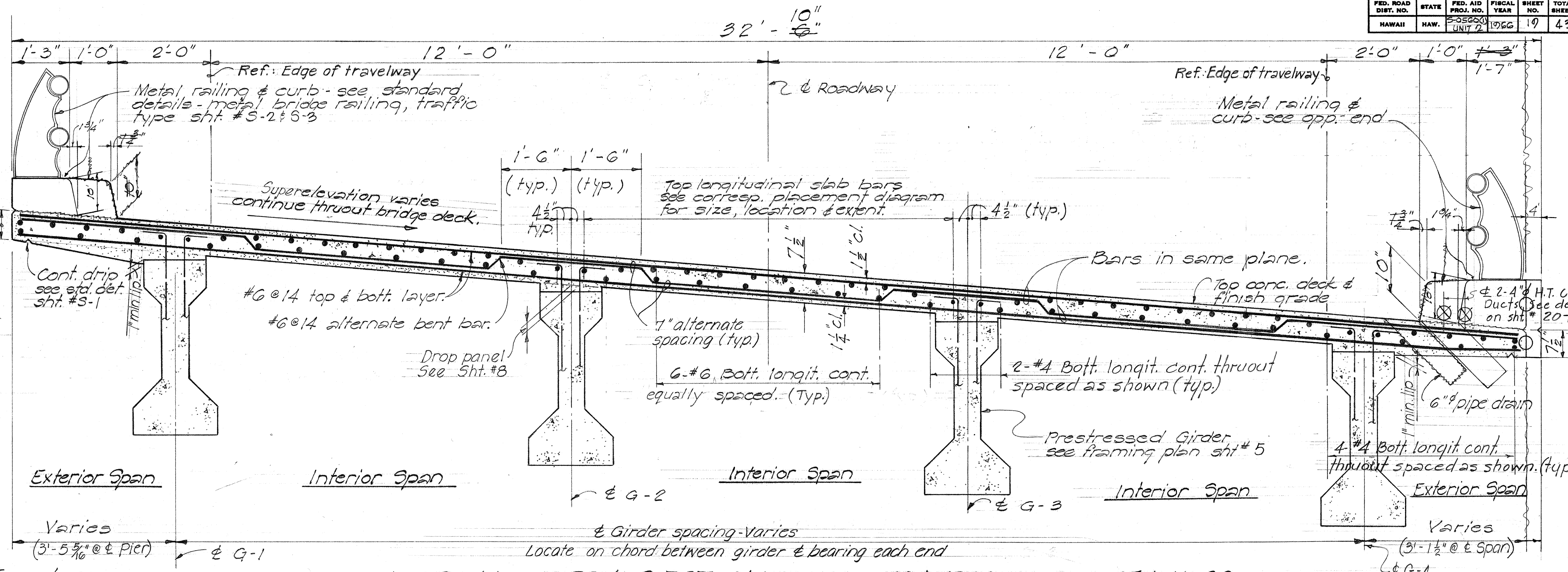
Top & bot. band bars
cont. straight. over beam "D"



SECTION (A) (BETWEEN GIRDER)

SCALE: $\frac{3}{4}$ " = 1'-0"

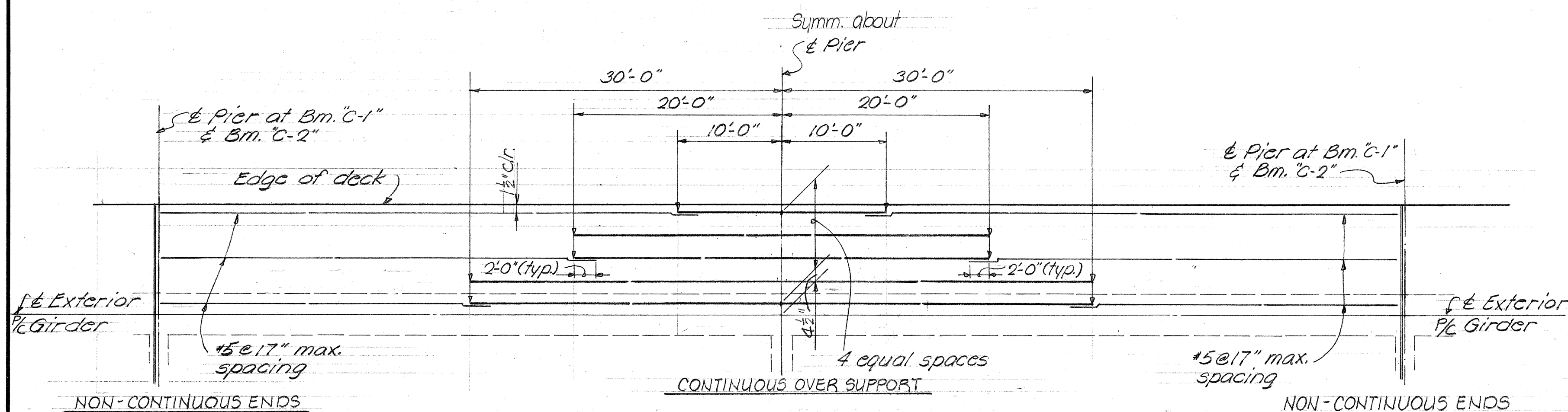
END ELEVATION
TYPICAL TRANSVERSE BEAM "D" Scale: $\frac{1}{2}$ " = 1'-0"



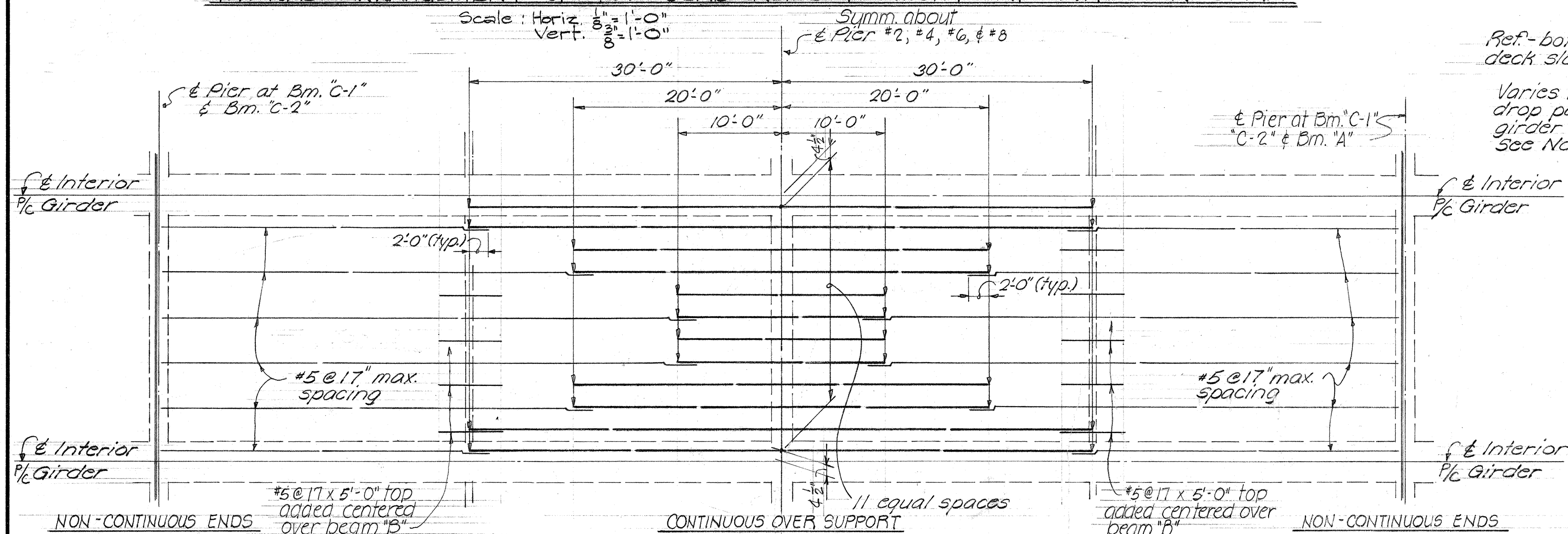
NORMAL DECK SECTION - Sta. 70+52.00 to Sta. 75+42.00

Scale: $\frac{3}{4}$ " = 1'-0"

Locate on chord between girder & bearing each end

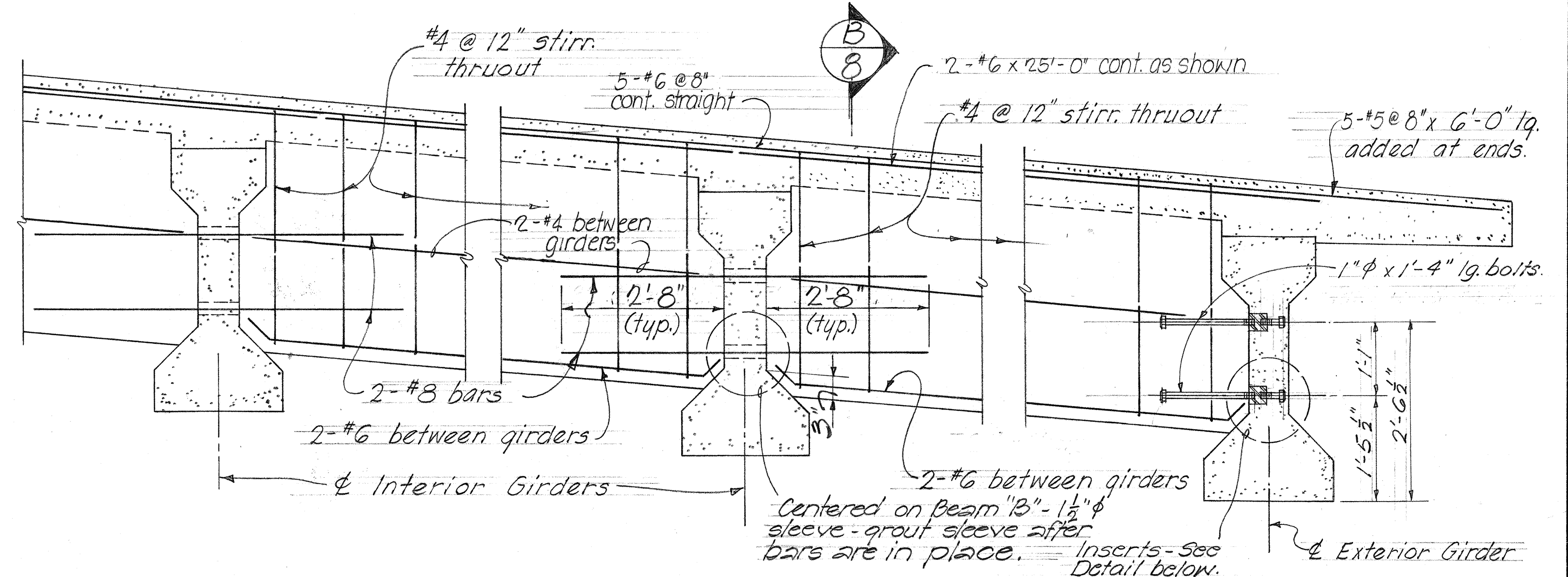


TYPICAL ARRANGEMENT OF TOP SLAB REINFORCEMENT AT EXTERIOR SPAN

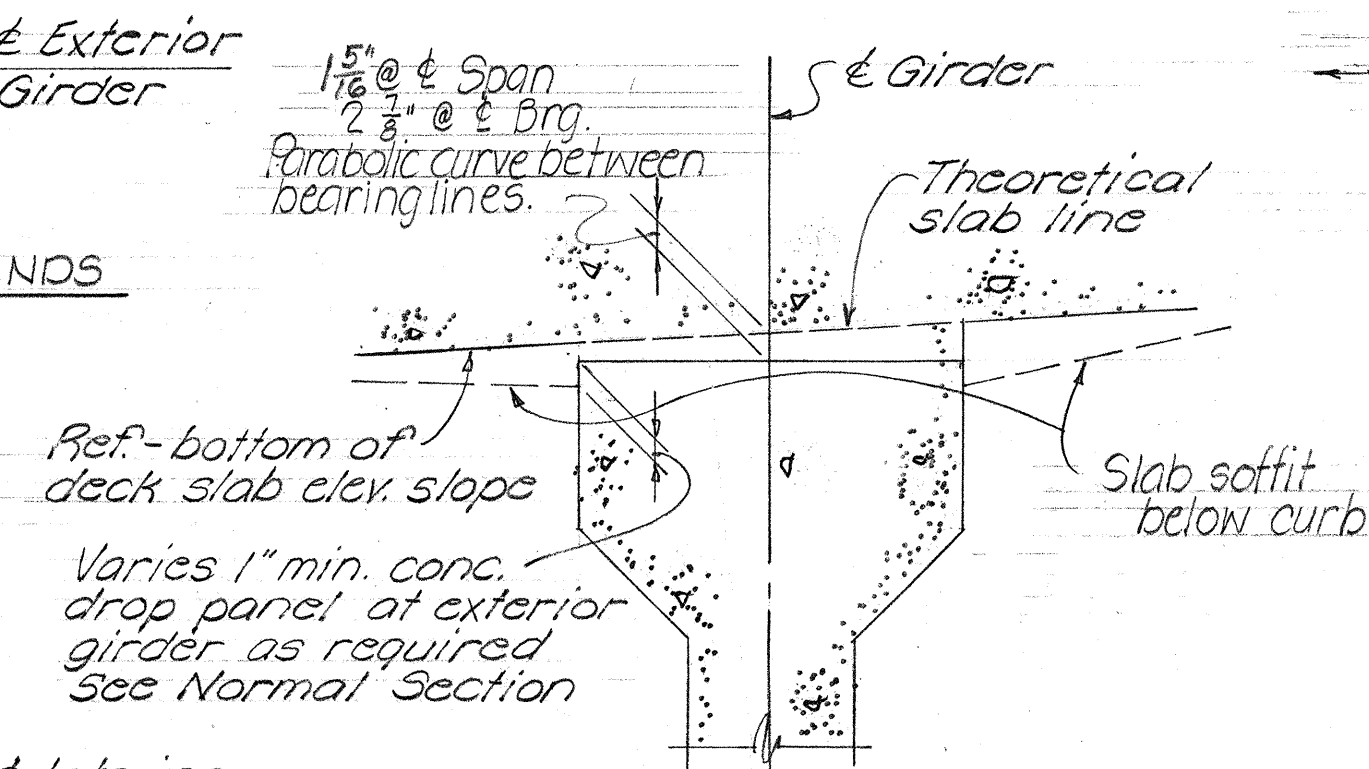


TYPICAL ARRANGEMENT OF TOP SLAB REINFORCEMENT AT INTERIOR SPANS

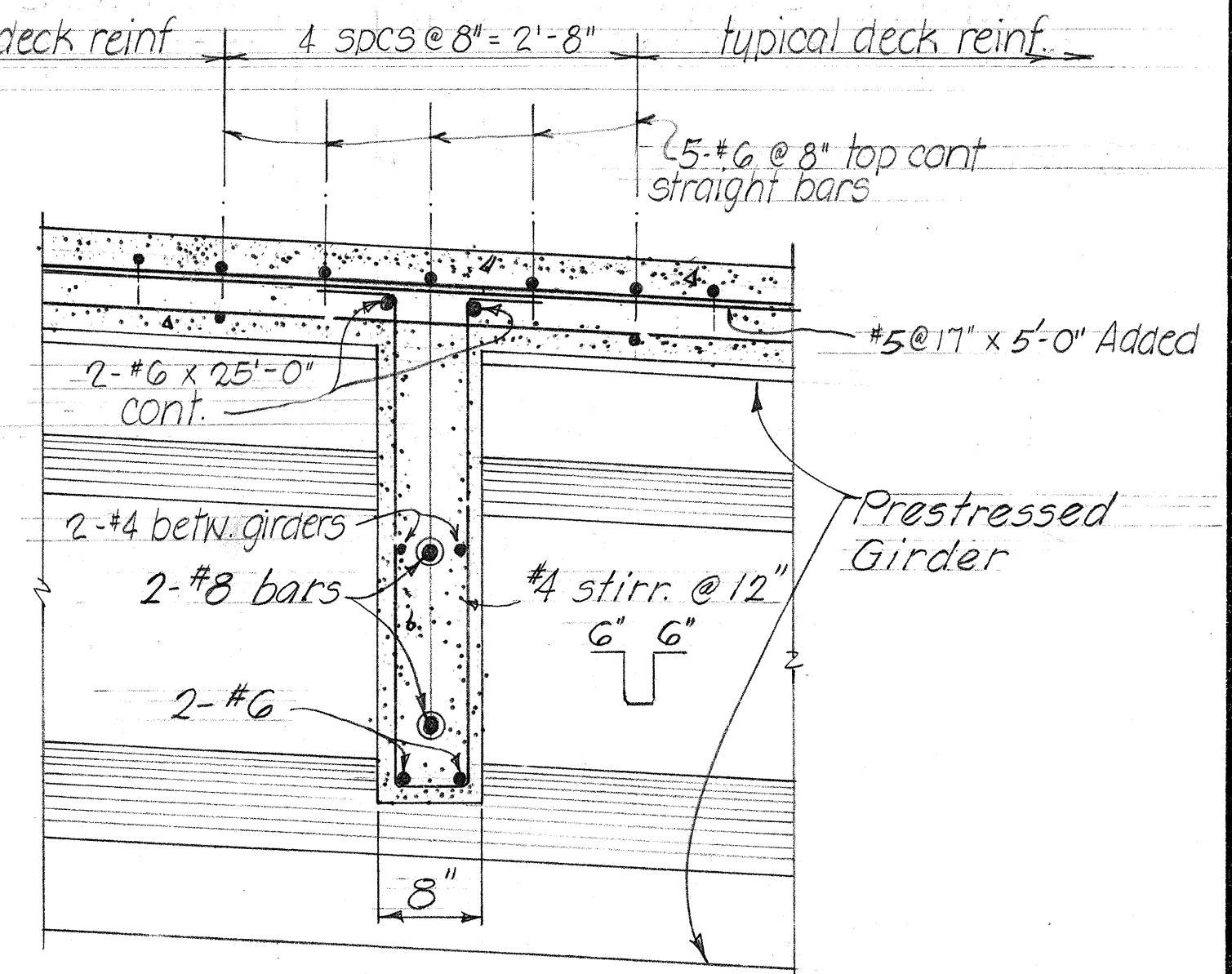
NOTE!
Except as otherwise noted all top slab reinf. to be #10 bars.



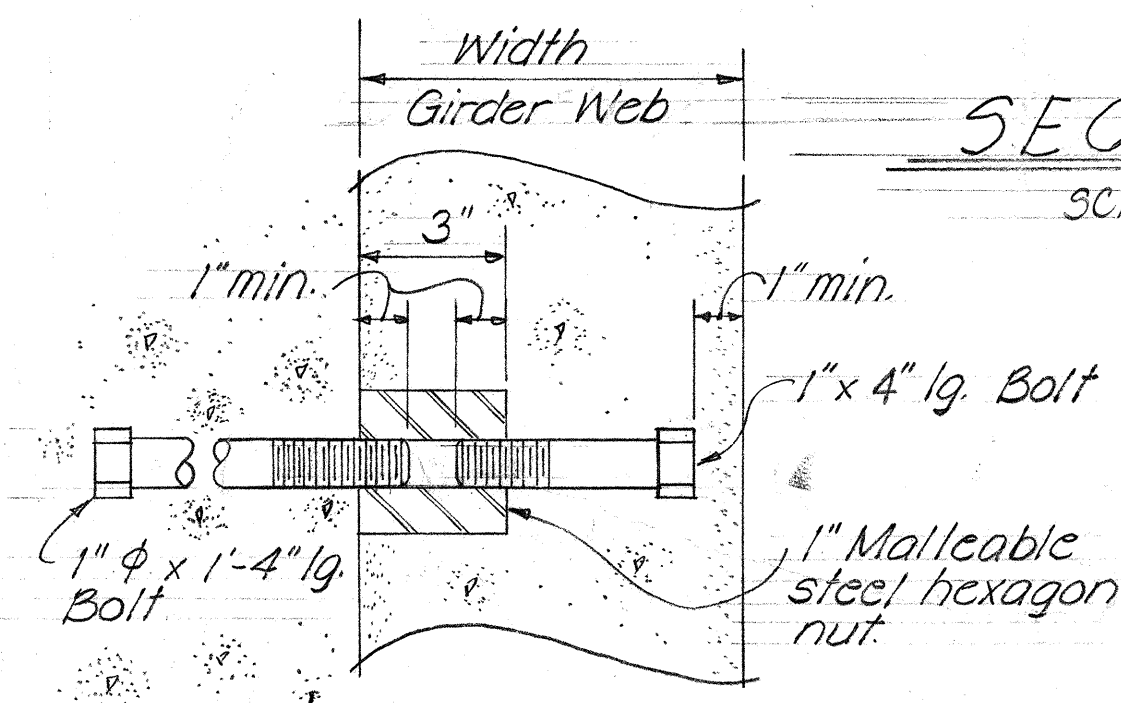
TYPICAL BEAM "B" DETAILS



PRESTRESSED GIRDER DROP PANEL DETAIL



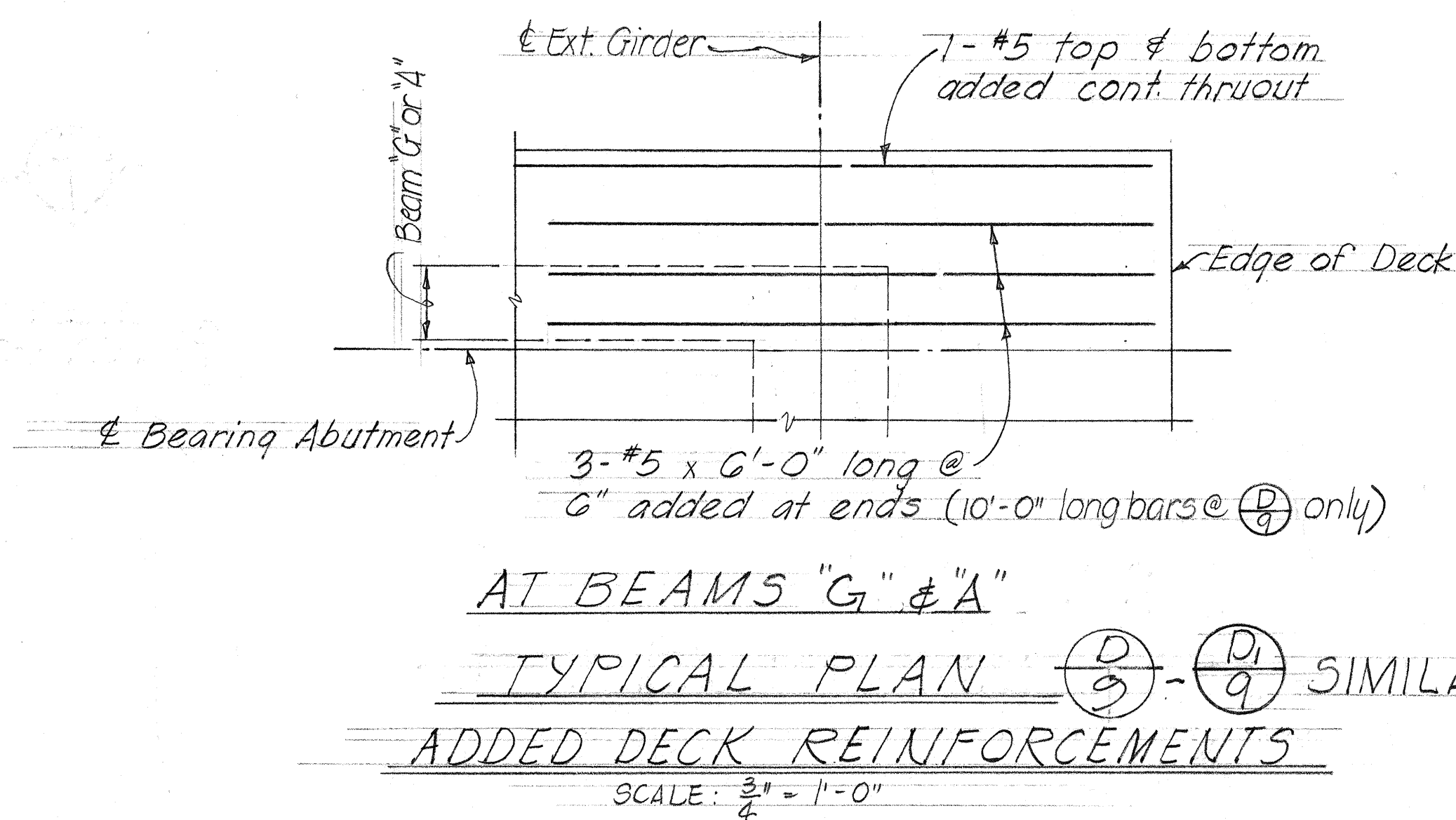
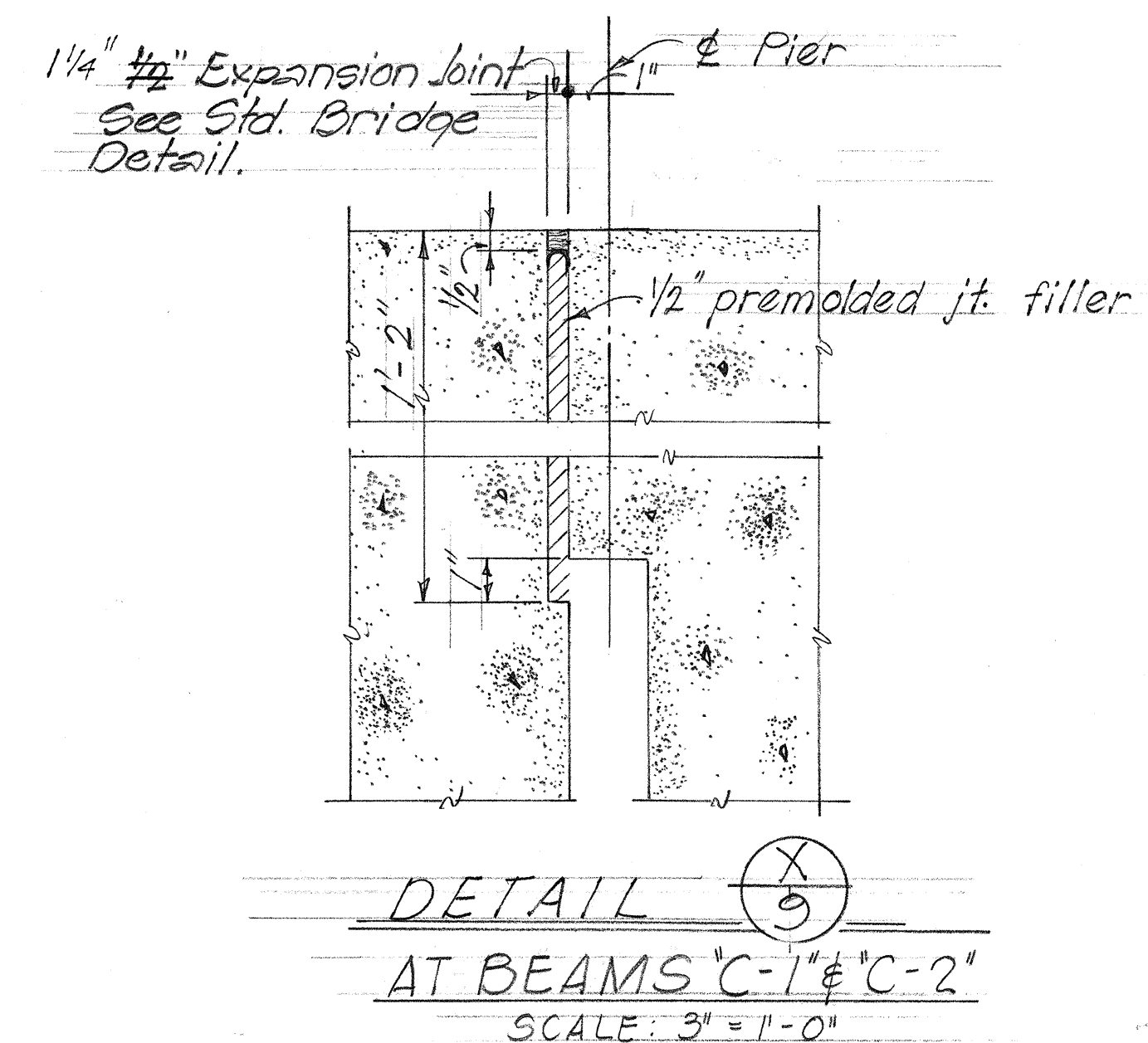
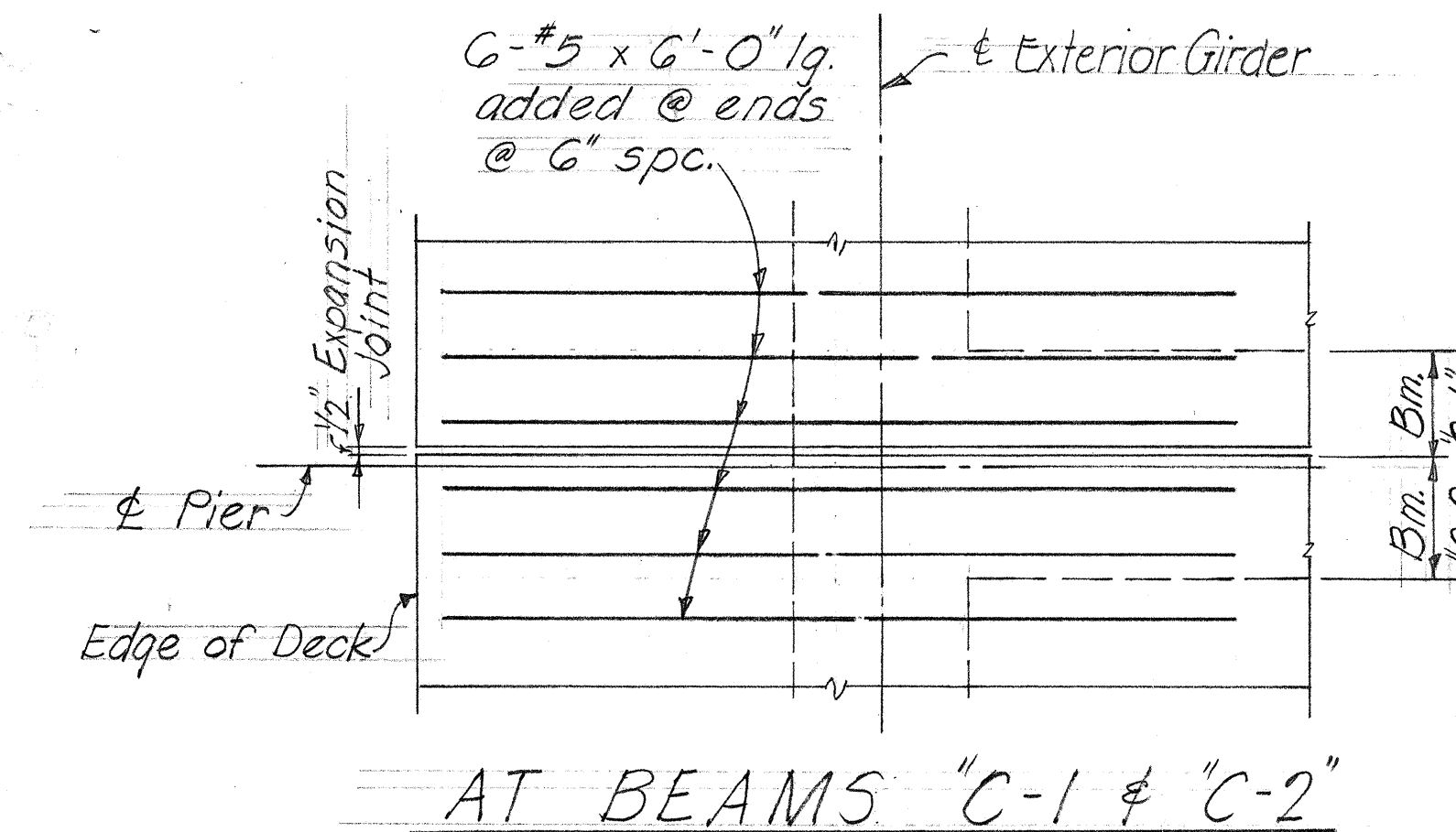
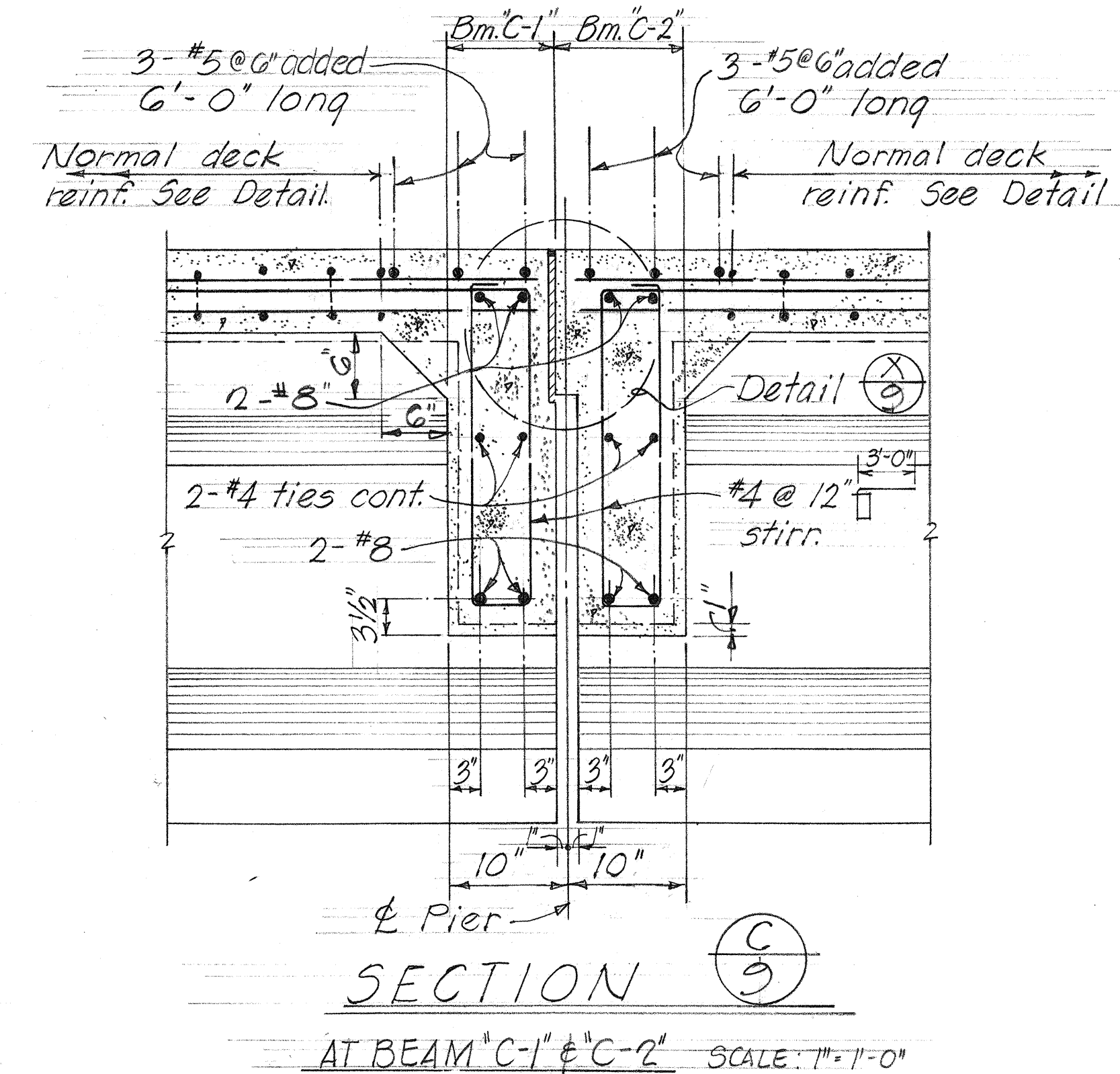
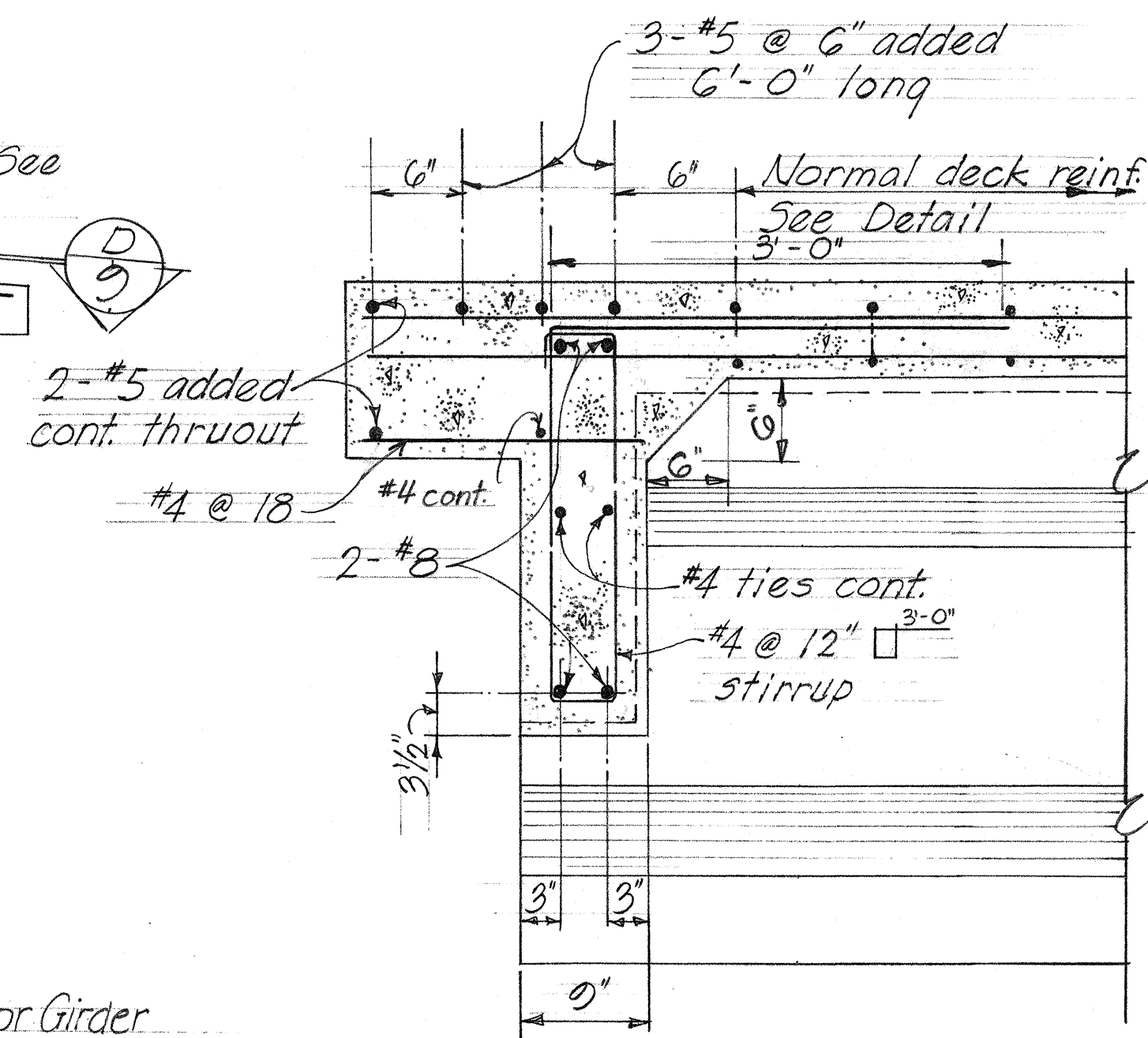
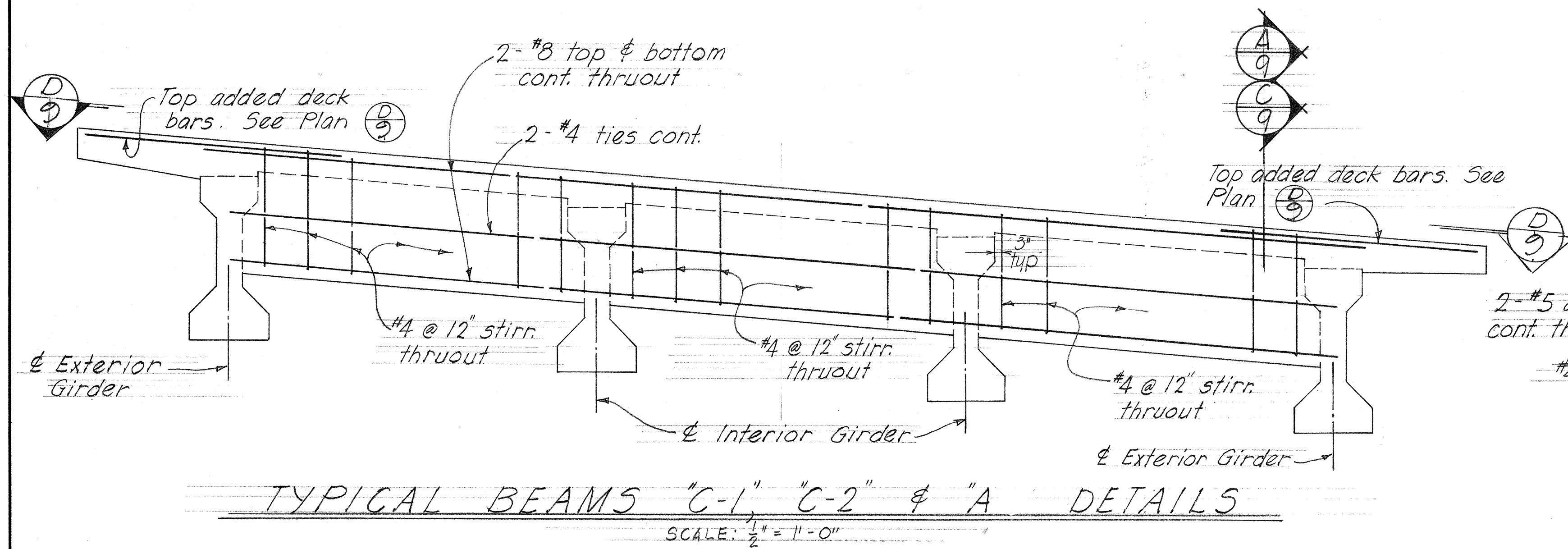
SECTION B



INSERT DETAIL

STATE OF HAWAII	
DEPARTMENT OF TRANSPORTATION	
HIGHWAYS DIVISION	
LUMAHAI RIVER BRIDGE	
Sta. 70+04.36 to Sta. 75+42.00	
SUPERSTRUCTURE SECTIONS & DETAILS	
KAUAI BELT ROAD	Proj. No. S-0560(1)
Oct. 1966	Unit 2
SHEET No. 8 OF 20 SHEETS	

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	5-0560(1)	1966	21	48



STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

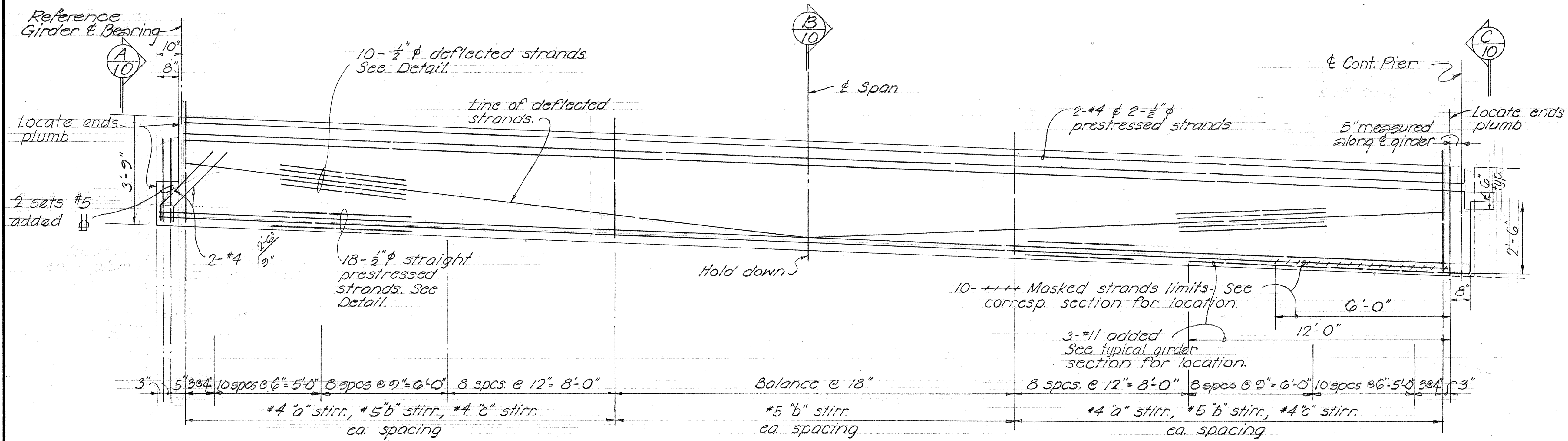
LUMAHAI RIVER BRIDGE

Sls. 70+04.36 to Sls. 75+42.00
SUPERSTRUCTURE SECTIONS & DETAILS
Kauai Belt Road Proj. No. S-0560(1)
Unit 2

October 1966

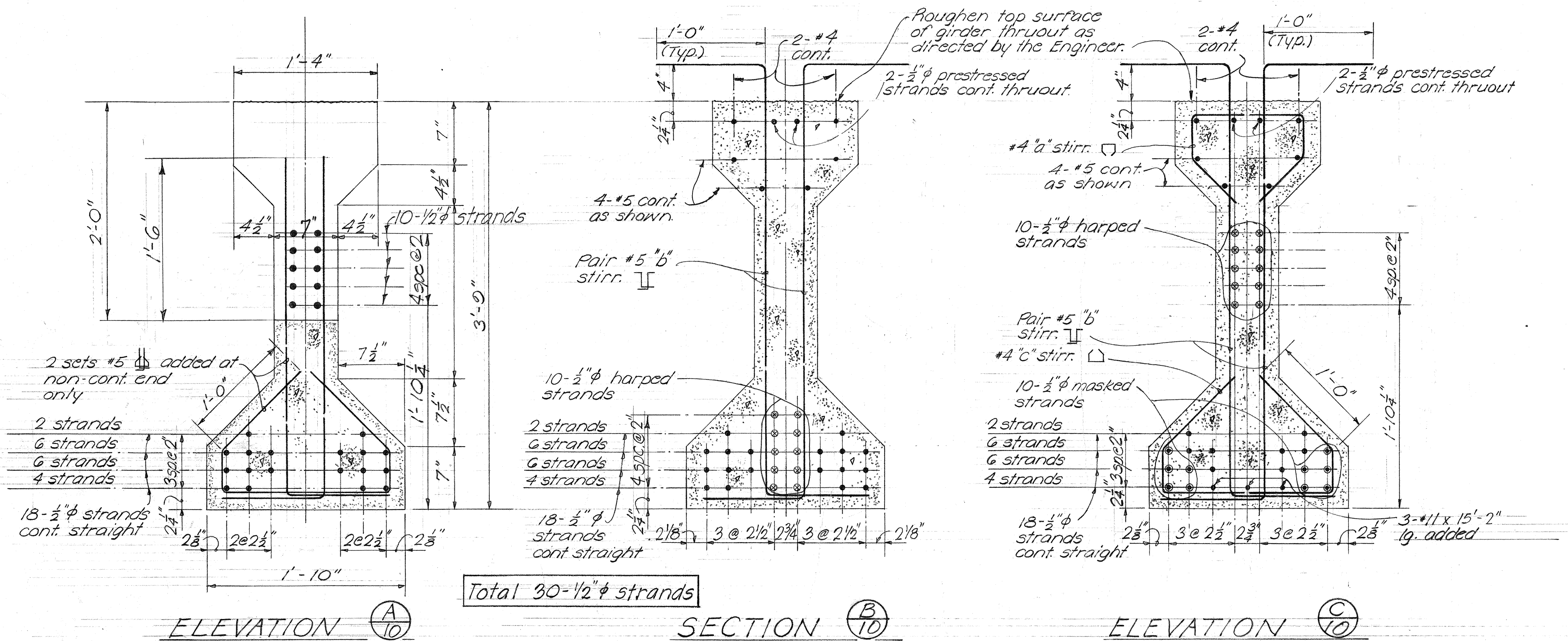
SHEET No. 9 OF 20 SHEETS

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	5-0560(1)	1966	22	43



TYPICAL PG-III PRESTRESSED GIRDER DETAILS

No Scale



Total 30-1/2" strands

ELEVATION A

SECTION B

ELEVATION C

TYPICAL PG-III GIRDER SECTIONS

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

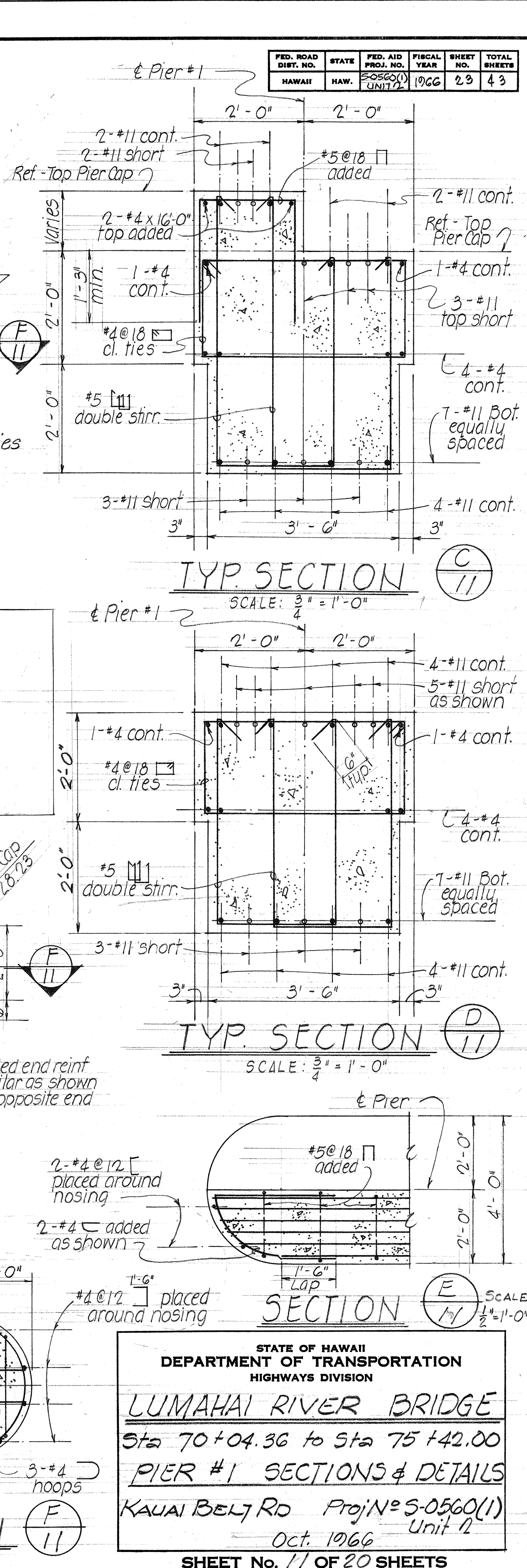
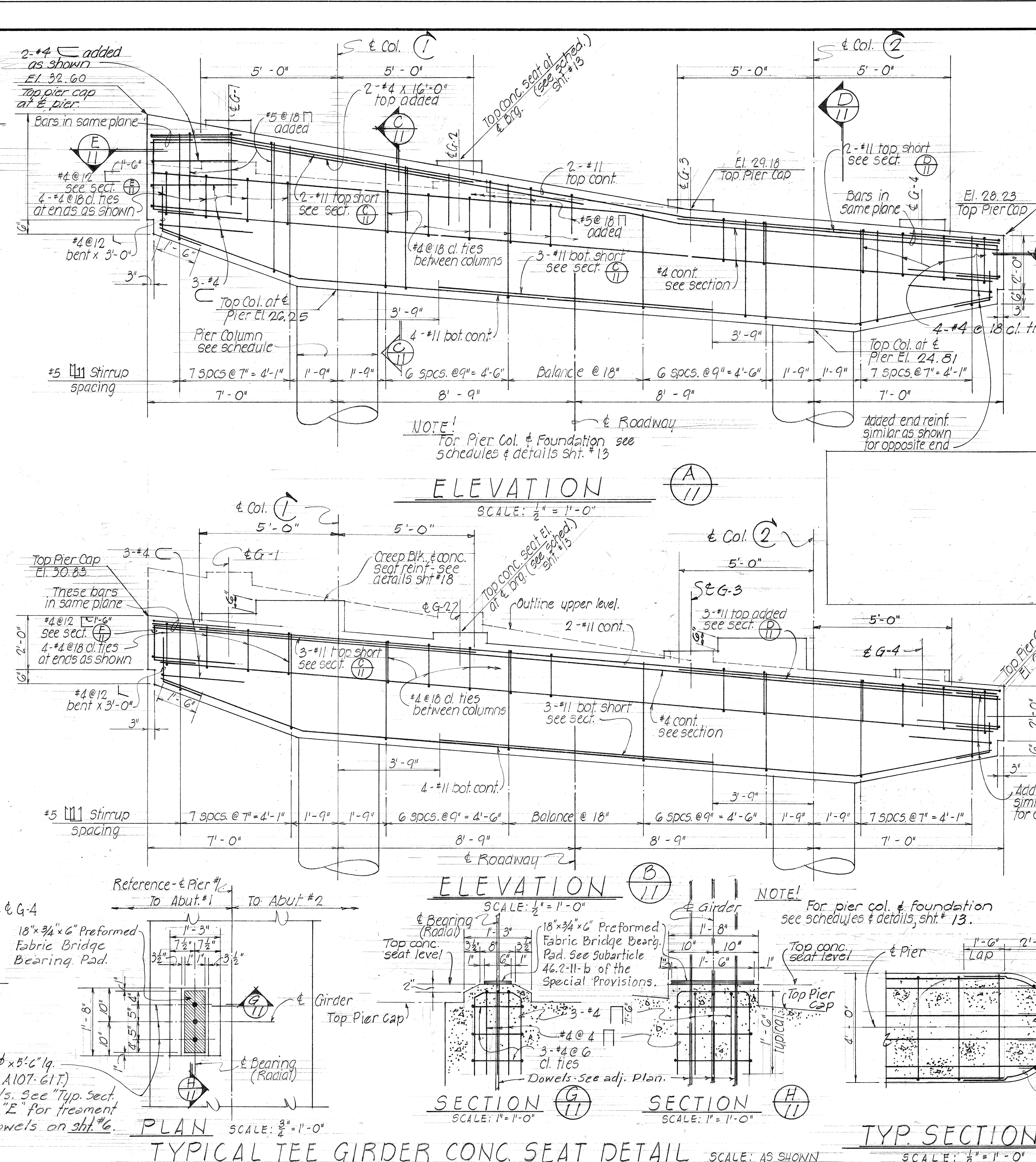
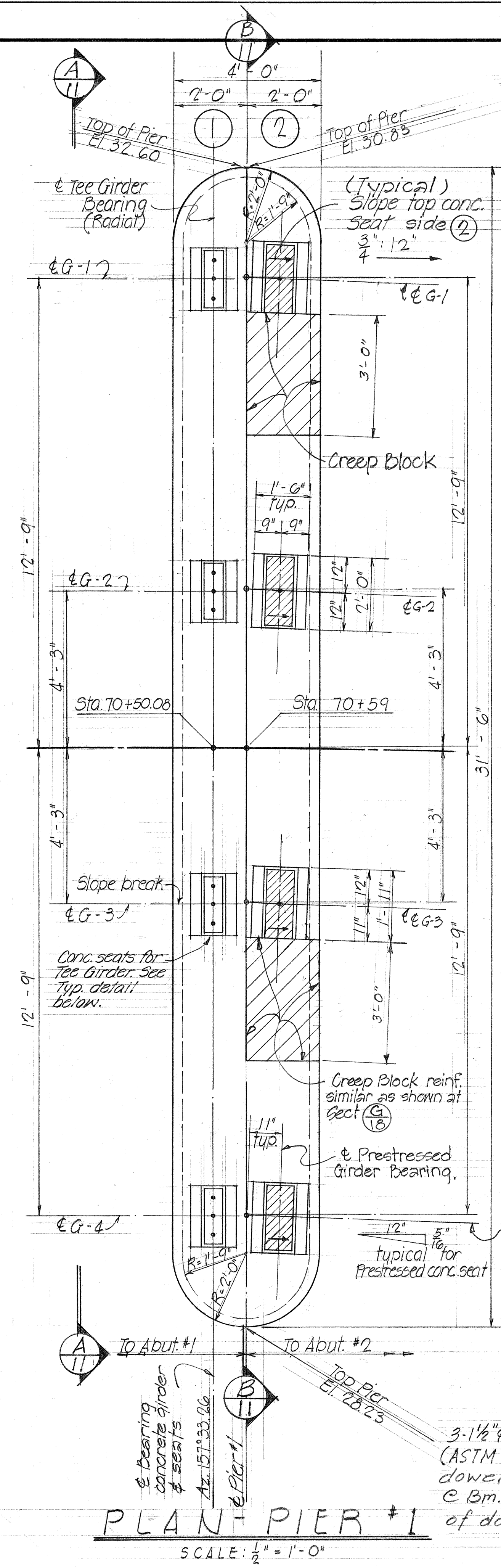
STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

LUMAHAI RIVER STREAM
Sta. 70 + 04.36 to Sta. 75 + 42.00
PRESTRESSED GIRDER DETAILS
KAUAI BELT ROAD Proj. N°S-0560(1)
Unit 2
Oct. 1966

SHEET No. 10 OF 20 SHEETS

DESIGNED BY	DATE
TRACED BY	10/66
QUANTITIES BY	
CHECKED BY	
ORIGINAL PLAN	
NOTE BOOK	
No.	

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	50560(1)	1966	23	43



DATE	1966
DESIGNED BY	J.F.
CHECKED BY	B.P.
NOTED BY	
ORIGINAL PLAN	
NOTE BOOK	

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

LUMAHAI RIVER BRIDGE

Sta 70+04.36 to Sta 75+42.00

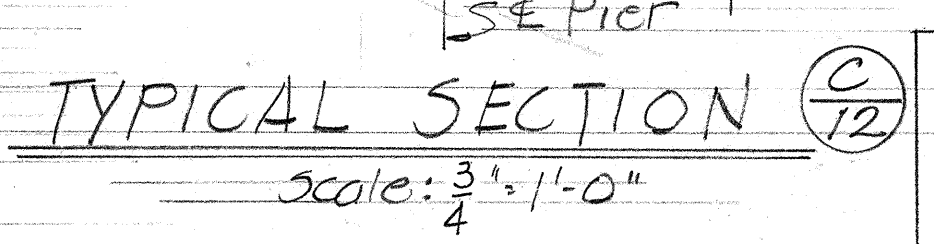
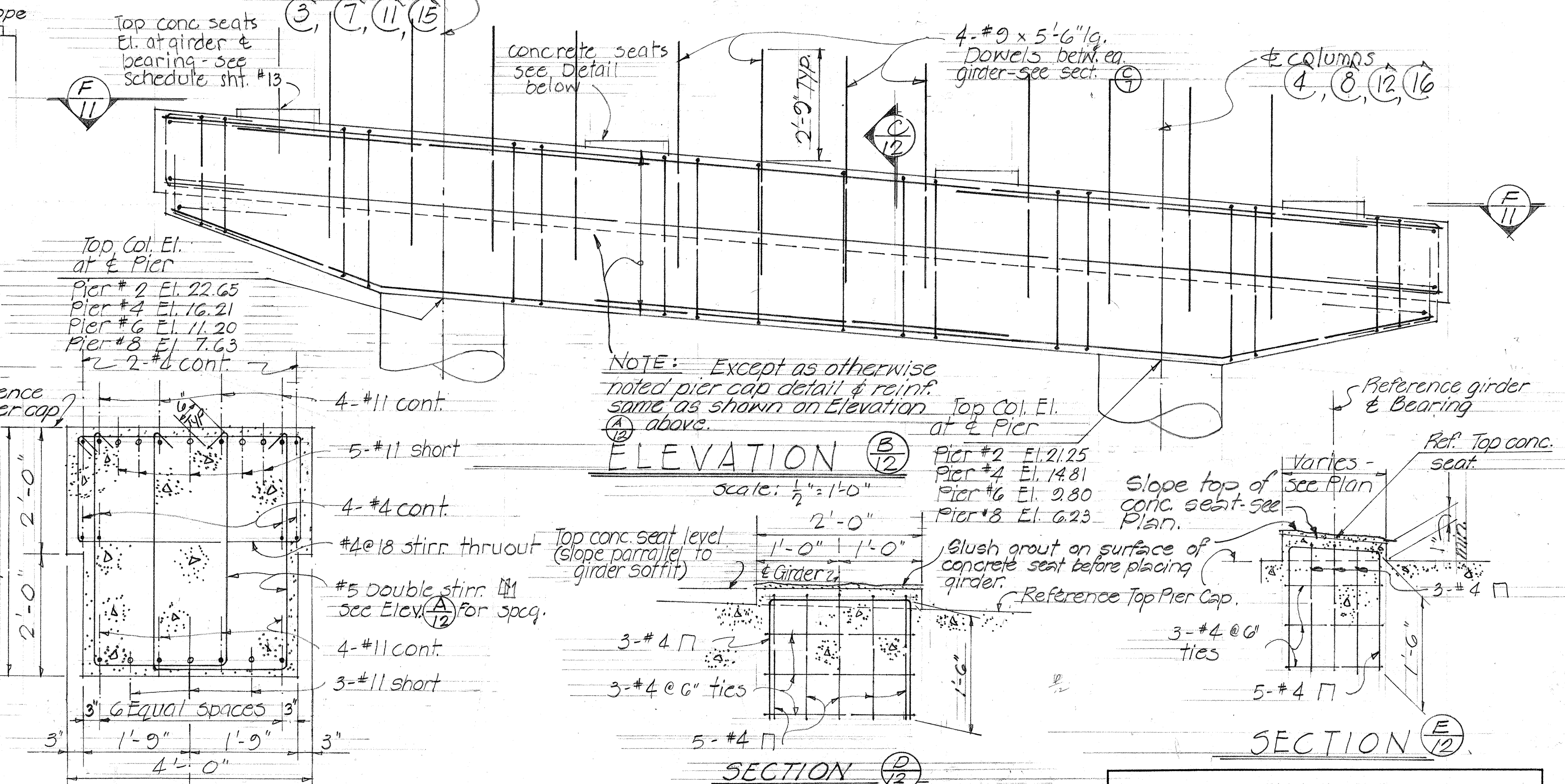
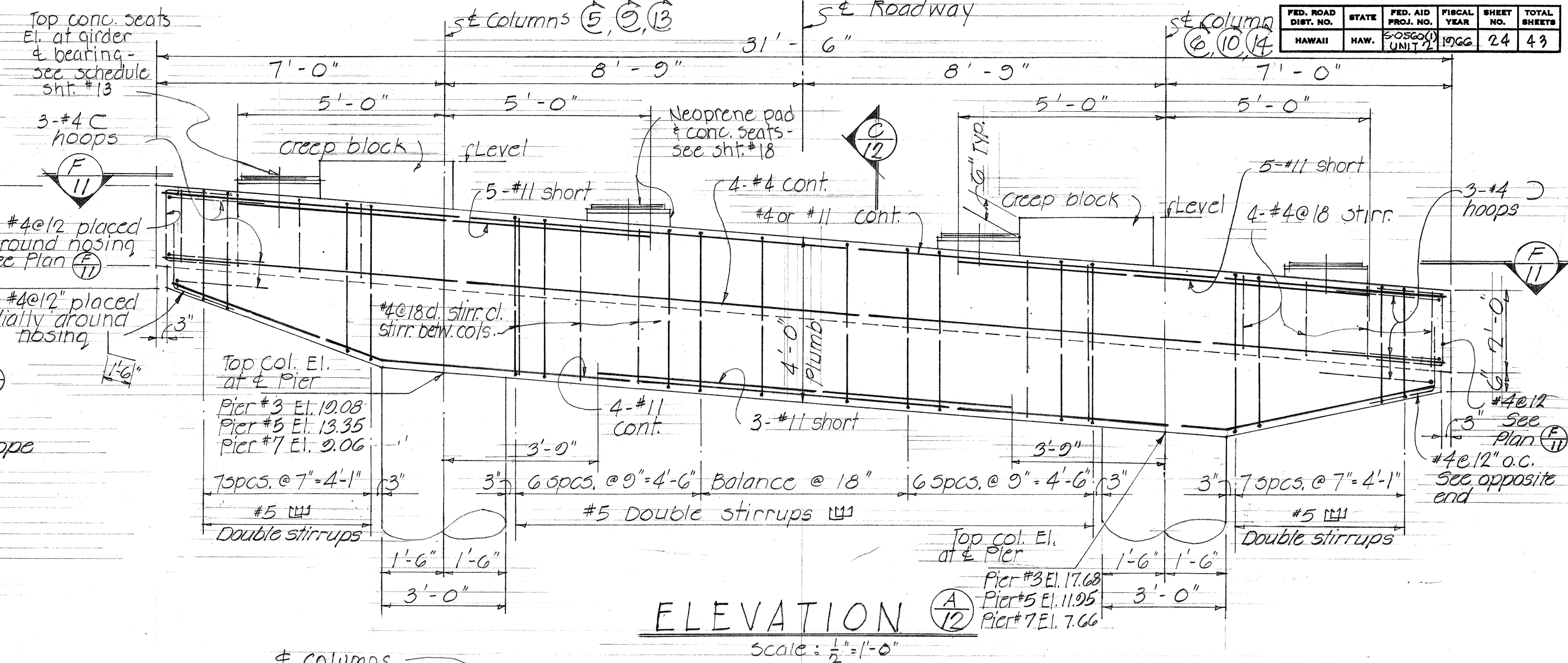
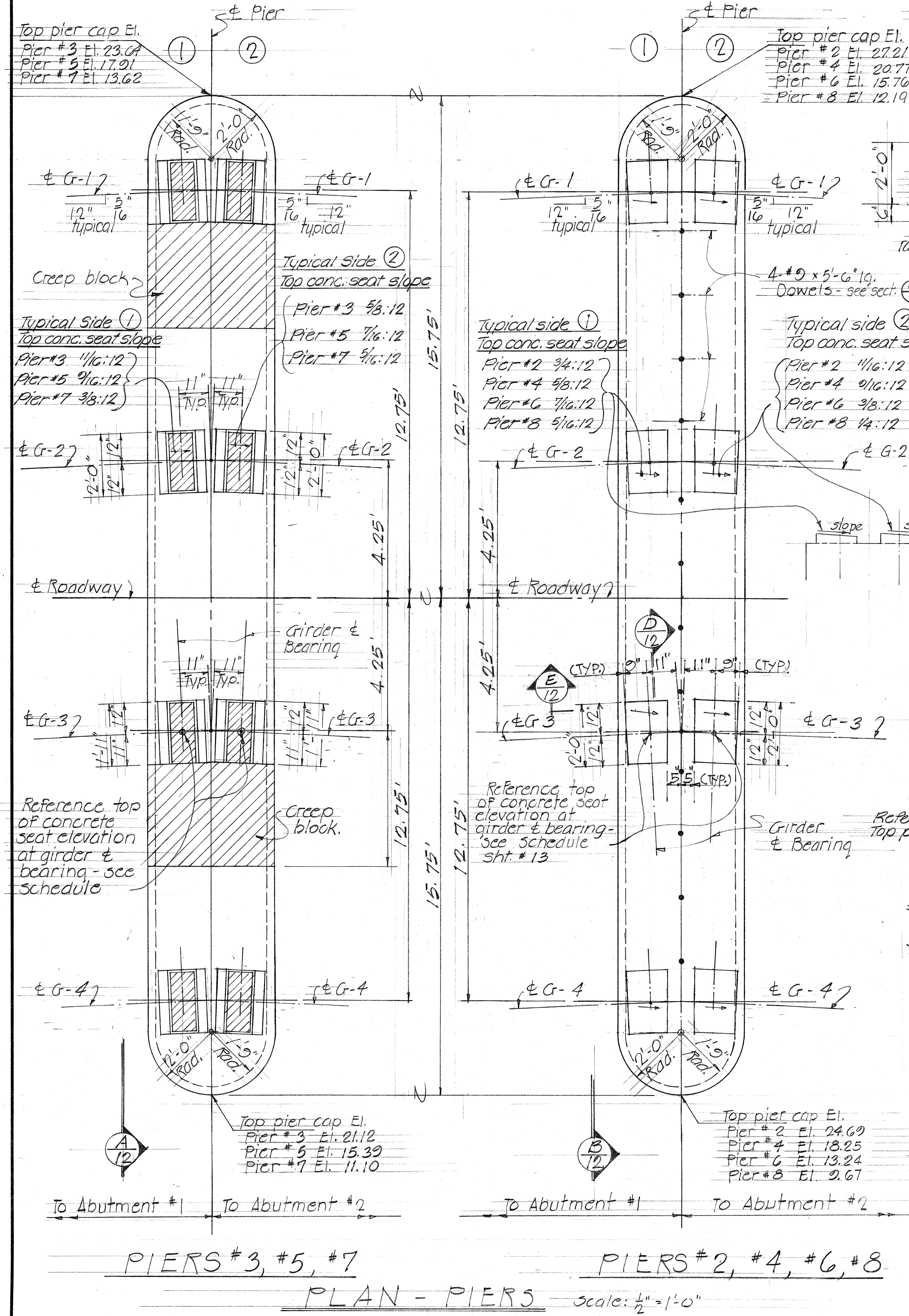
PIER #1 SECTIONS & DETAILS

KAUAI BELT RD Proj N=5-0560(1)

Oct. 1966 Unit 2

SHEET No. 11 OF 20 SHEETS

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	5-0560(1)	1966	24	43



TYPICAL CONCRETE SEAT DETAILS
 PIERS #2, #4, #6, #8 ONLY
 Scale: 1" = 1'-0"

STATE OF HAWAII
 DEPARTMENT OF TRANSPORTATION
 HIGHWAYS DIVISION

LUMAHAI RIVER BRIDGE
 Sta 70+04.36 to Sta. 75+42.00
PIERS #2 Thru #8 Inclusive
 SECTIONS & DETAILS
 Kauai Belt Rd. Proj. No. 5-0560(1)
 Oct. 1966 Unit 7

SHEET No. 12 OF 20 SHEETS

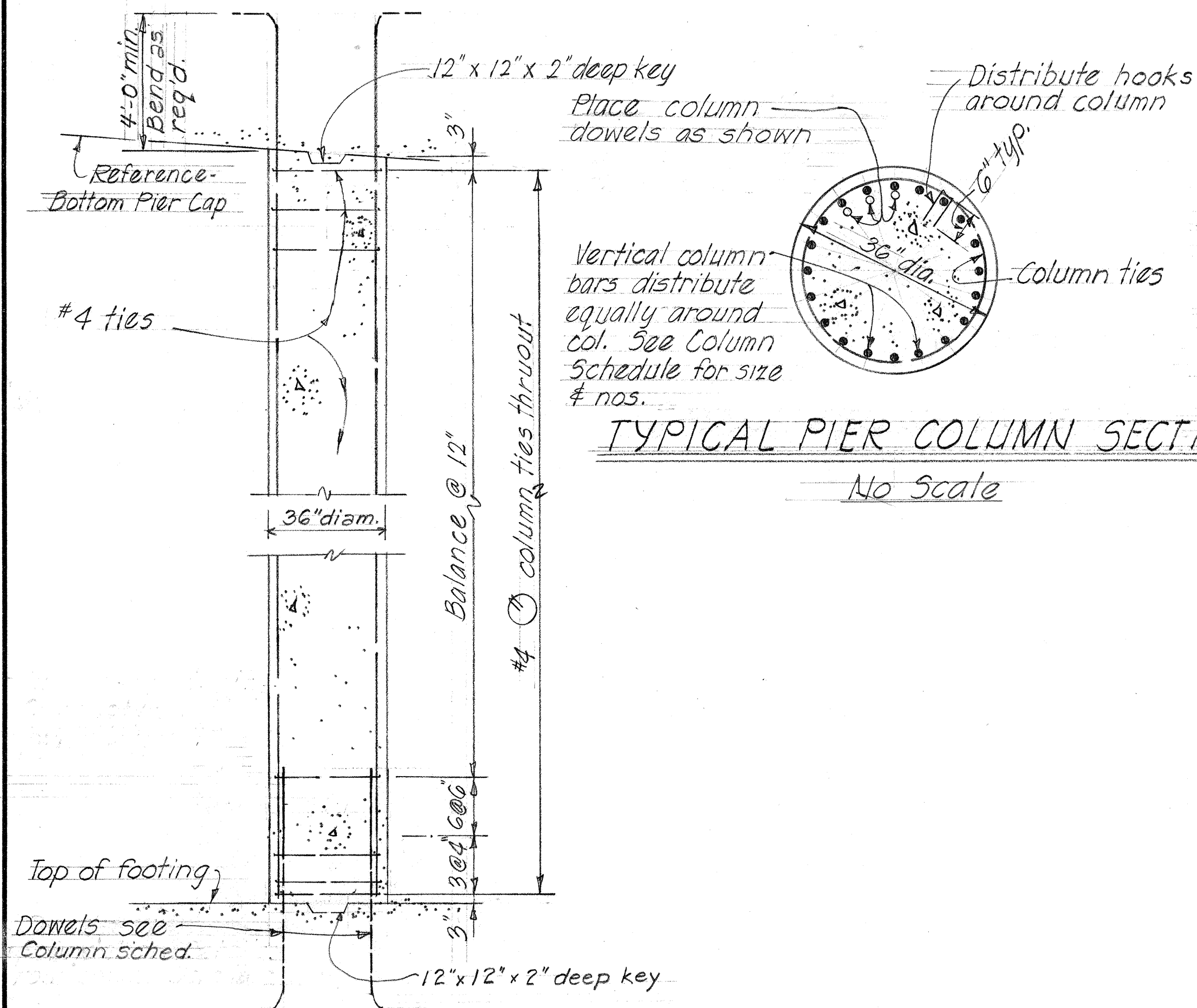
SURVEY PLOTTED BY	DATE
DRAWN BY	11/6
DESIGNED BY	"
QUANTITIES BY	"
CHECKED BY	"
NOTE BOOK	"
No.	"

TOP CONCRETE SEAT ELEVATION SCHEDULE - ABUTMENTS AND PIERS

Location Girder No.	Abutment No. 1	Pier No. 1		Pier No. 2		Pier No. 3		Pier No. 4		Pier No. 5		Pier No. 6		Pier No. 7		Pier No. 8		Abutment No. 2
		① Haena Side	② Lihue Side	①	②	①	②	①	②	①	②	①	②	①	②	①	②	
G1	34.36	32.56	30.92	27.30	27.19	23.83	23.73	20.84	20.75	18.09	18.01	15.82	15.74	13.78	13.72	12.23	12.18	10.89
G2	33.87	31.11	30.22	26.62	26.51	23.15	23.05	20.16	20.07	17.41	17.33	15.14	15.06	13.10	13.04	11.55	11.50	10.21
G3	33.40	29.65	29.52	25.94	25.83	22.47	22.37	19.48	19.39	16.73	16.65	14.46	14.38	12.42	12.36	10.87	10.82	9.53
G4	32.66	28.95	28.81	25.26	25.15	21.79	21.69	18.80	18.71	16.05	15.97	13.78	13.70	11.74	11.68	10.19	10.14	8.85

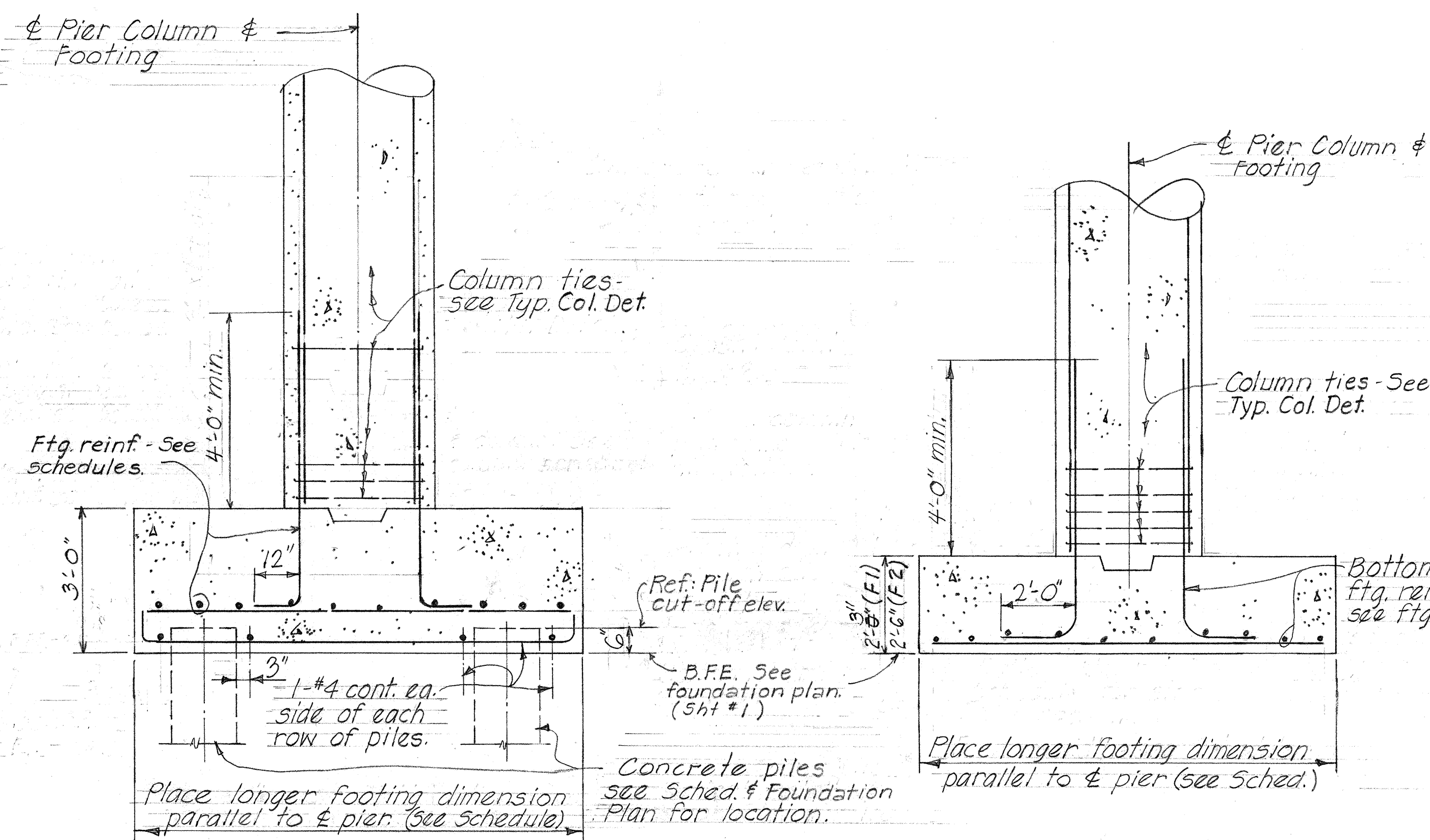
TYPICAL PIER COLUMN SECTION

No Scale



TYPICAL COLUMN DETAIL

No Scale



AT PILE FOOTINGS

AT SPREAD FOOTINGS

TYPICAL PIER FOUNDATION DETAILS

No Scale

PILE FOOTING SCHEDULE

Type	Plan View	Bottom Reinforcement	
		Long Bars	Short Bars
P12		12-#11	12-#9
P10		12-#10	12-#9
P9		9-#9 each way	

PIER COLUMN SCHEDULE

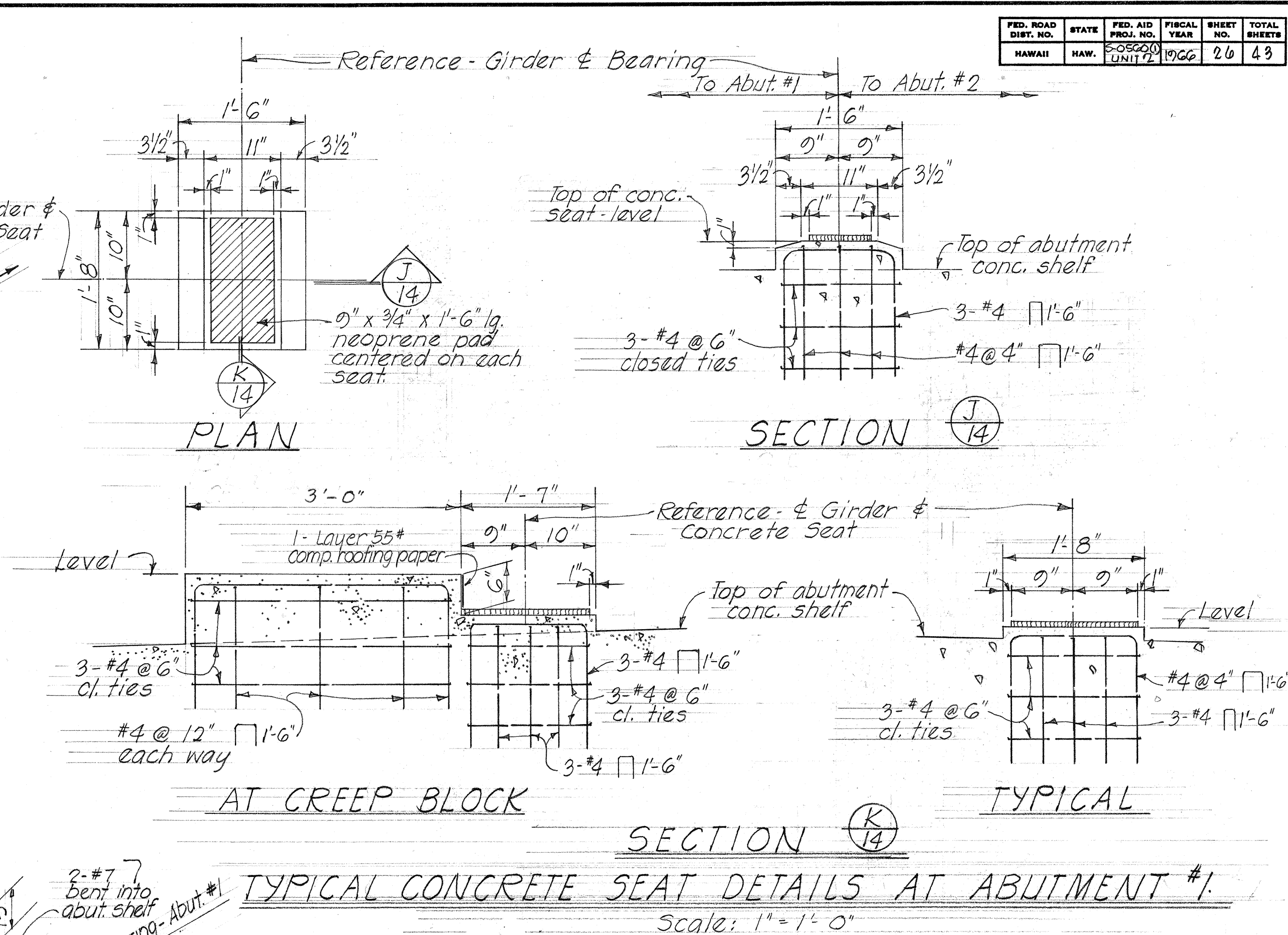
Column No.	①	②	③	④	⑤	⑥	⑦	⑧	⑨	⑩	⑪	⑫	⑬	⑭	⑮	⑯
Item																
Vertical Reinf. (36" & typ. col. size)	20-#11	20-#11	28-#11	15-#11	28-#11	15-#11	20-#11	15-#11	20-#11	15-#11	20-#11	15-#11	20-#11	15-#11	20-#11	15-#11
Dowels	20-#11	20-#11	28-#11	15-#11	28-#11	15-#11	20-#11	15-#11	20-#11	15-#11	20-#11	15-#11	20-#11	15-#11	20-#11	15-#11
Pile Footing Type			P10	P9	P12	P10	P10	P10	P10	P10	P10	P10	P10	P10	P10	P10
Spread Footing Type	F1	F2														

SPREAD FOOTING SCHEDULE

Type	Size	Depth	Bottom Reinforcement	
			Long Bars	Short Bars
F1	8'-6" x 8'-6"	2'-0" to 3'	15#-#9 each way	
F2	10'-0" x 12'-0"	2'-6"	15-#9	10-#9
F2	14'-0" x 14'-0"	2'-6"	20-#9 each way	

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISIONLUMAHAI RIVER BRIDGE
Sta 70+04.36 To Sta. 75+42.00
TYPICAL DETAILS & SCHEDULES
KAUAI BELT ROAD PROJ. NO. S-0560(1)
October 1966 Unit 2
SHEET No. 13 OF 20 SHEETS

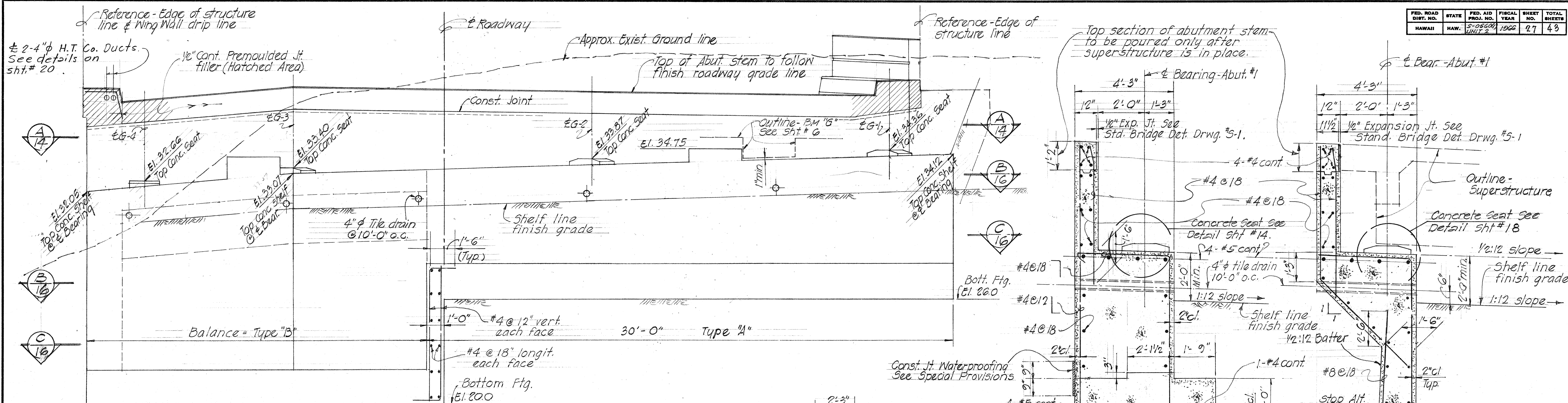
ORIGINAL PLAN	SURVEY PLOTTED BY _____	DATE _____
	DRAWN BY <i>GT</i>	<i>1966</i>
	TRACED BY _____	_____
	DESIGNED BY <i>VC</i>	_____
NOTE BOOK	QUANTITIES BY <i>JF GT NY</i>	_____
	CHECKED BY <i>Jib, PLY</i>	_____
No. _____		_____



TYPICAL CONCRETE SEAT DETAILS AT ABUTMENT #1

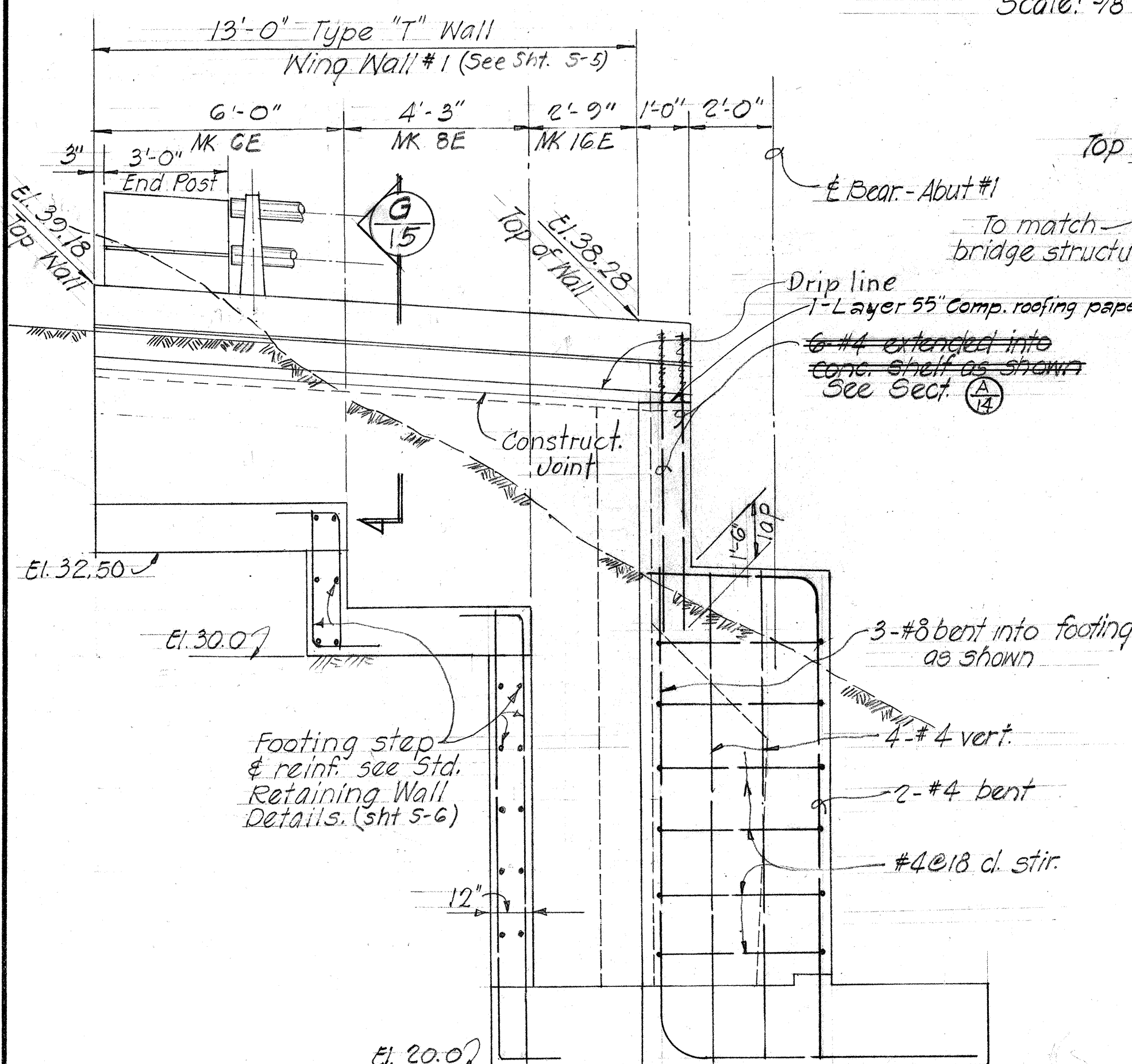
Scale: $1'' = 1' - 0''$





DEVELOPED ELEVATION - ABUT. NO. 1

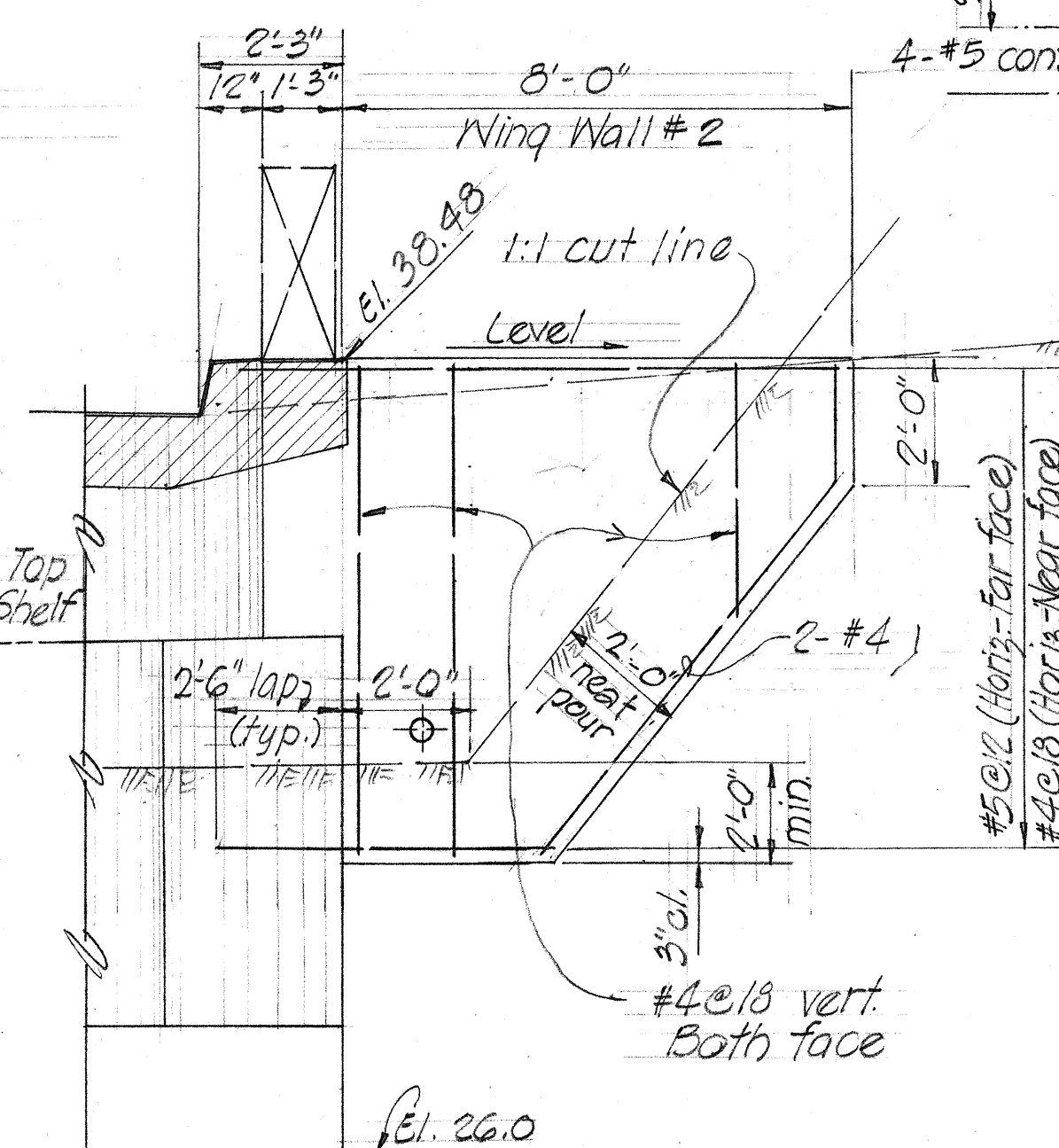
Scale: $\frac{3}{8}'' = 1'-0''$



SECTION G/15

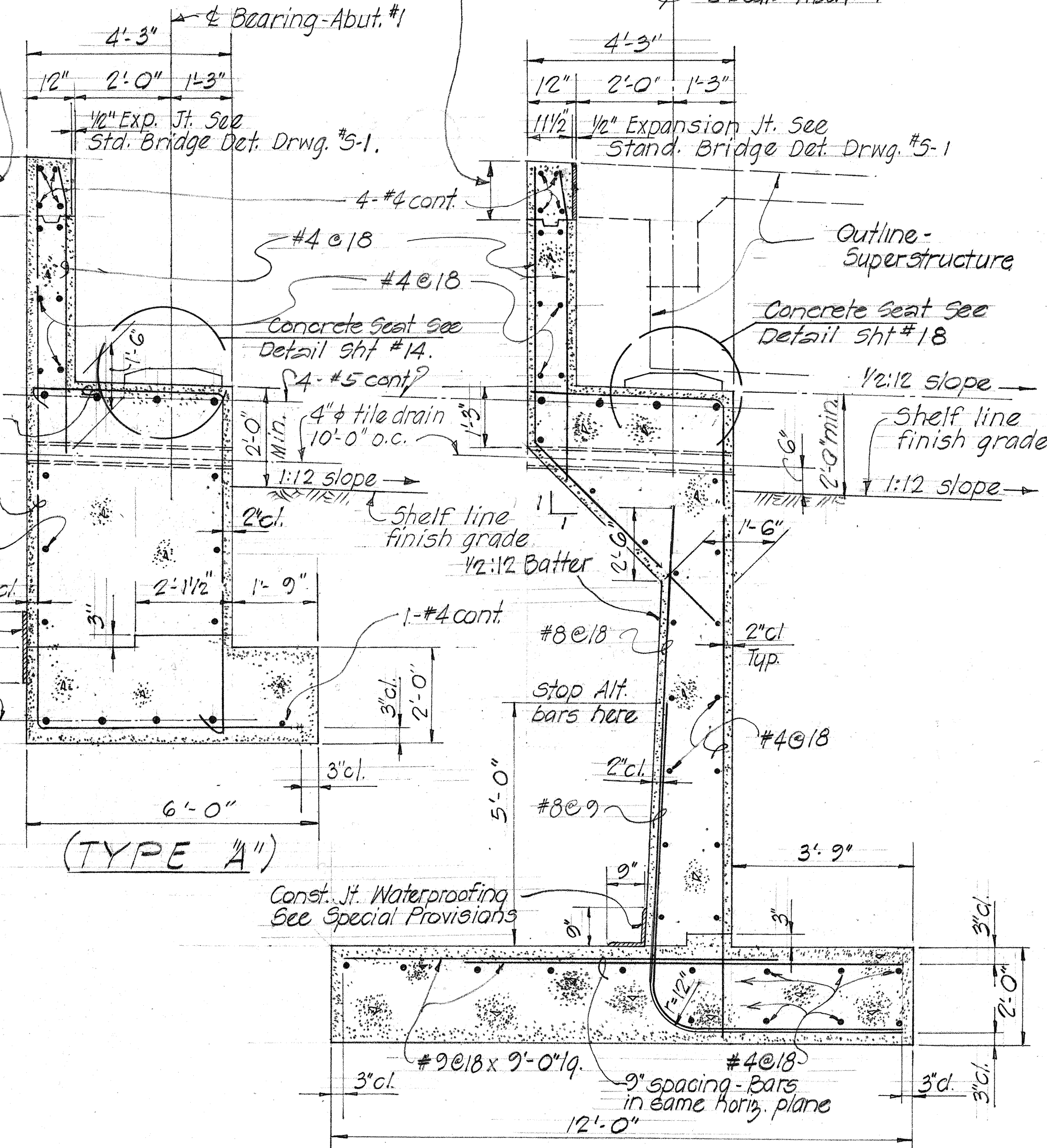
Scale: $\frac{3}{4}'' = 1'-0''$

See sheet 20-A



ELEVATION H/15

Scale: $\frac{3}{8}'' = 1'-0''$



TYPICAL SECTION - ABUT. NO. 1

Scale: $\frac{1}{2}'' = 1'-0''$

ELEVATION F/15

Scale: $\frac{3}{8}'' = 1'-0''$

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

LUMAHAI RIVER BRIDGE

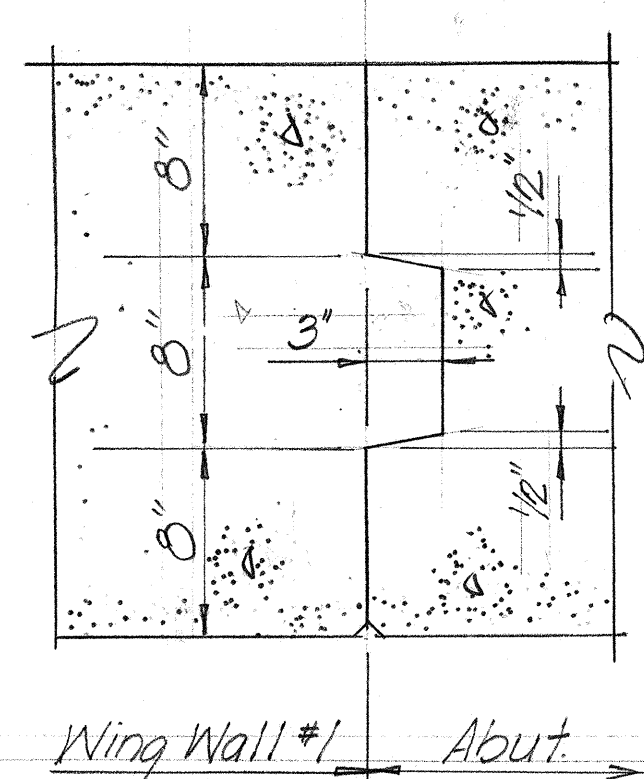
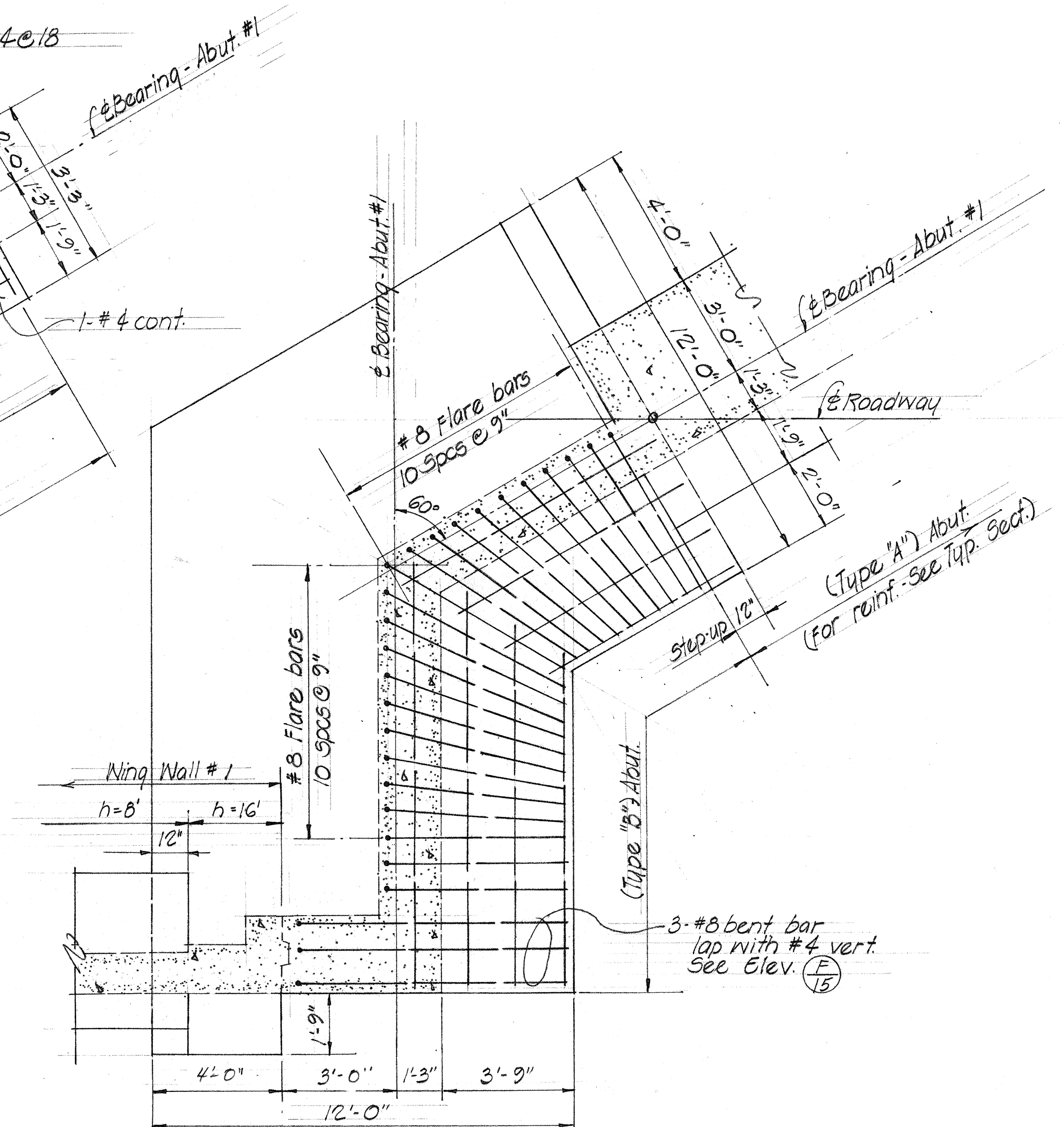
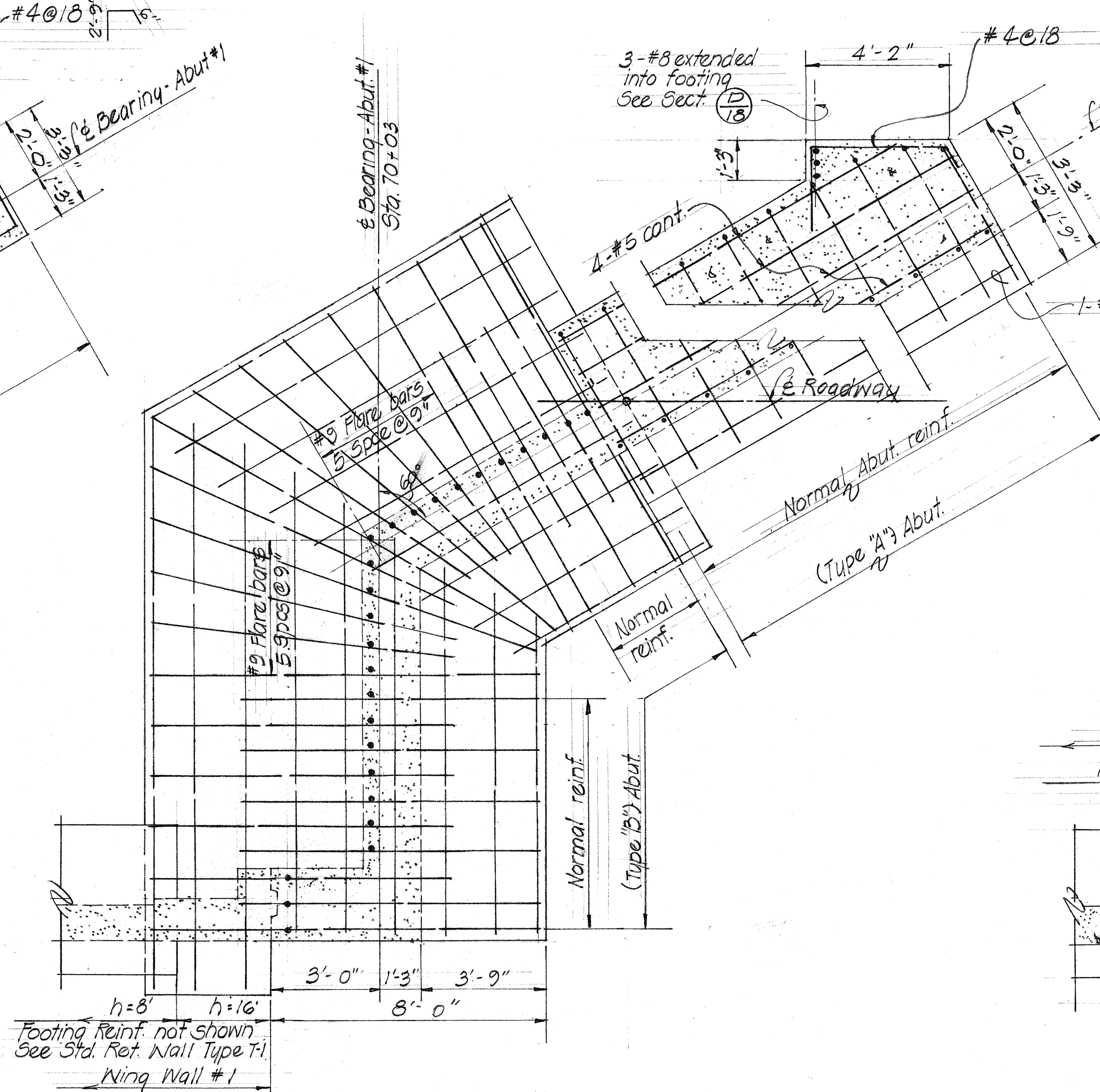
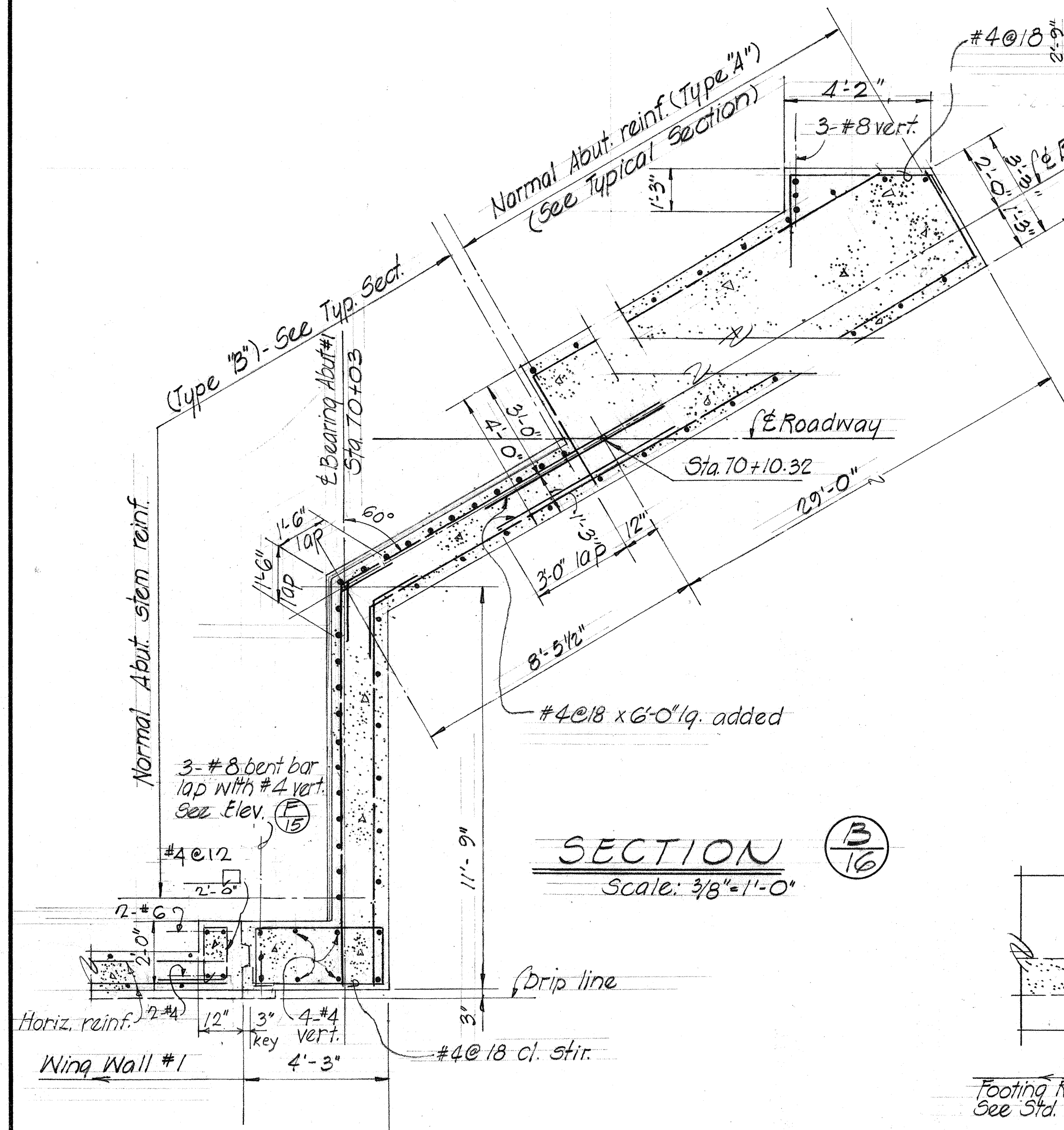
Sta. 70+04.36 to Sta. 75+42.00

ABUTMENT #1 - SECTION & DETAILS

KAUAI BELT ROAD PROJ. NO. 5-0560(1)

Oct. 1966 Unit 2

SHEET NO. 15 OF 20 SHEETS



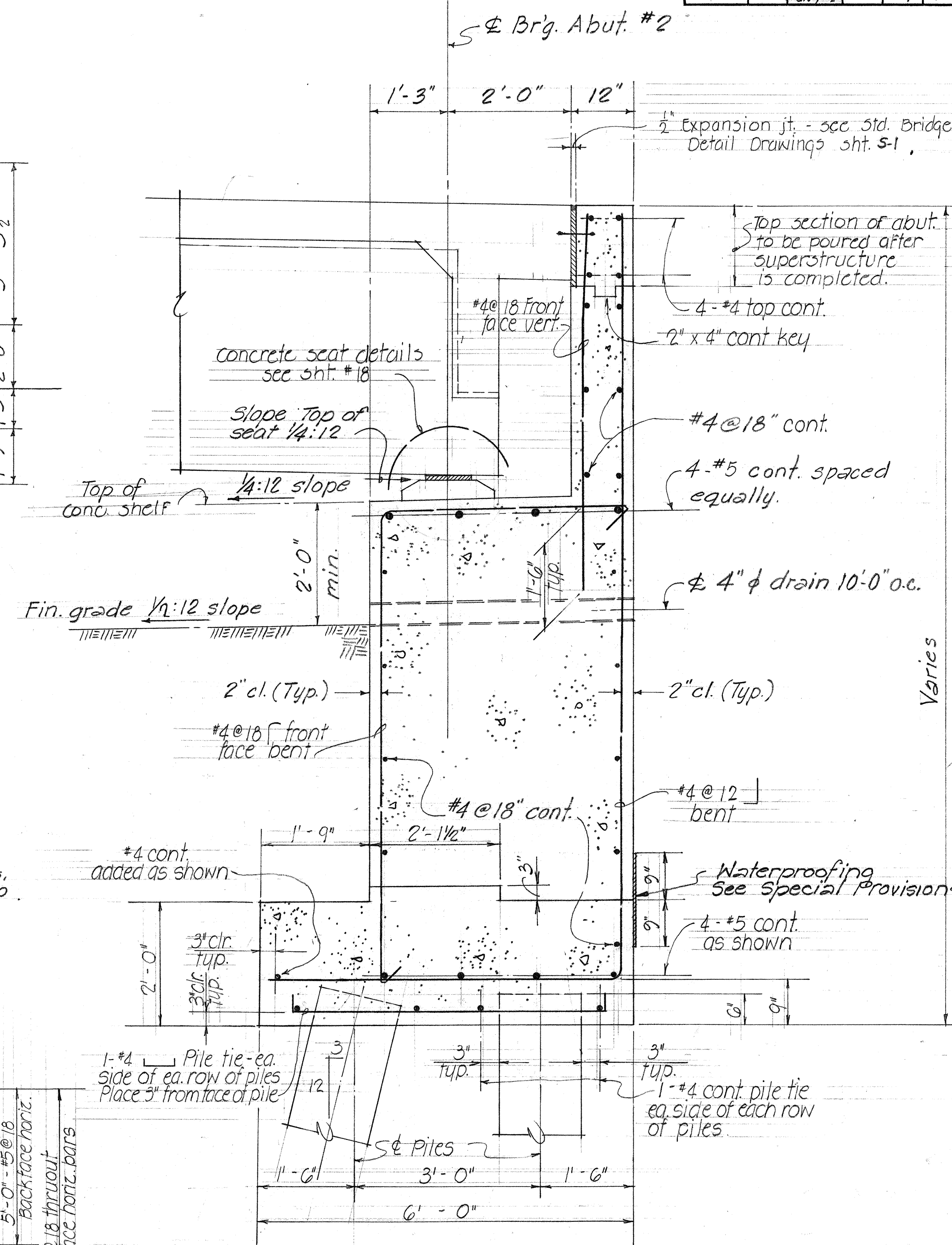
**WING WALL #1 CONNECTION
DETAIL**
Scale: 3/4" = 1'-0"

**LAYOUT TOP REINF.
SECTION C-16
FOOTING REINF. LAYOUT-ABUT. #1**
Scale: 3/8" = 1'-0"

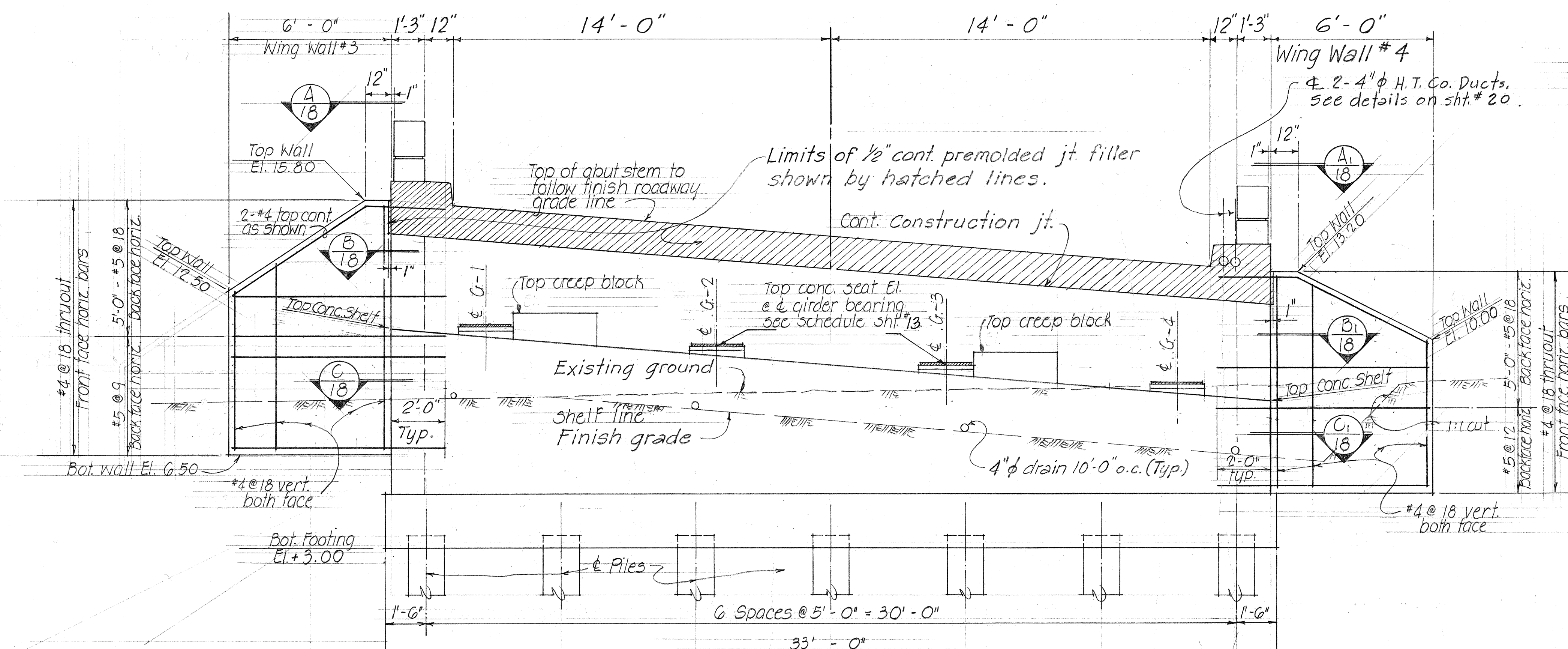
LAYOUT BOTT. REINF.

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION
LUMAHAI RIVER BRIDGE
Sta. 70 + 04.36 to Sta. 75 + 42.00
ABUTMENT #1 SECTIONS & DETAILS
KAUAI BELT ROAD Proj. No. 5-0560(1)
Oct. 1966 Unit 2
SHEET No. 16 OF 20 SHEETS

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



ELEVATION ~ ABUT. N^o 2



ELEVATION ~ ABUT. N^o 2

TYPICAL SECTION-ABUT. #2

SCALE: $\frac{3}{4}" = 1' - 0"$

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

LUMAHAI RIVER BRIDGE

Sta 70+04.36 to Sta. 75+42.00

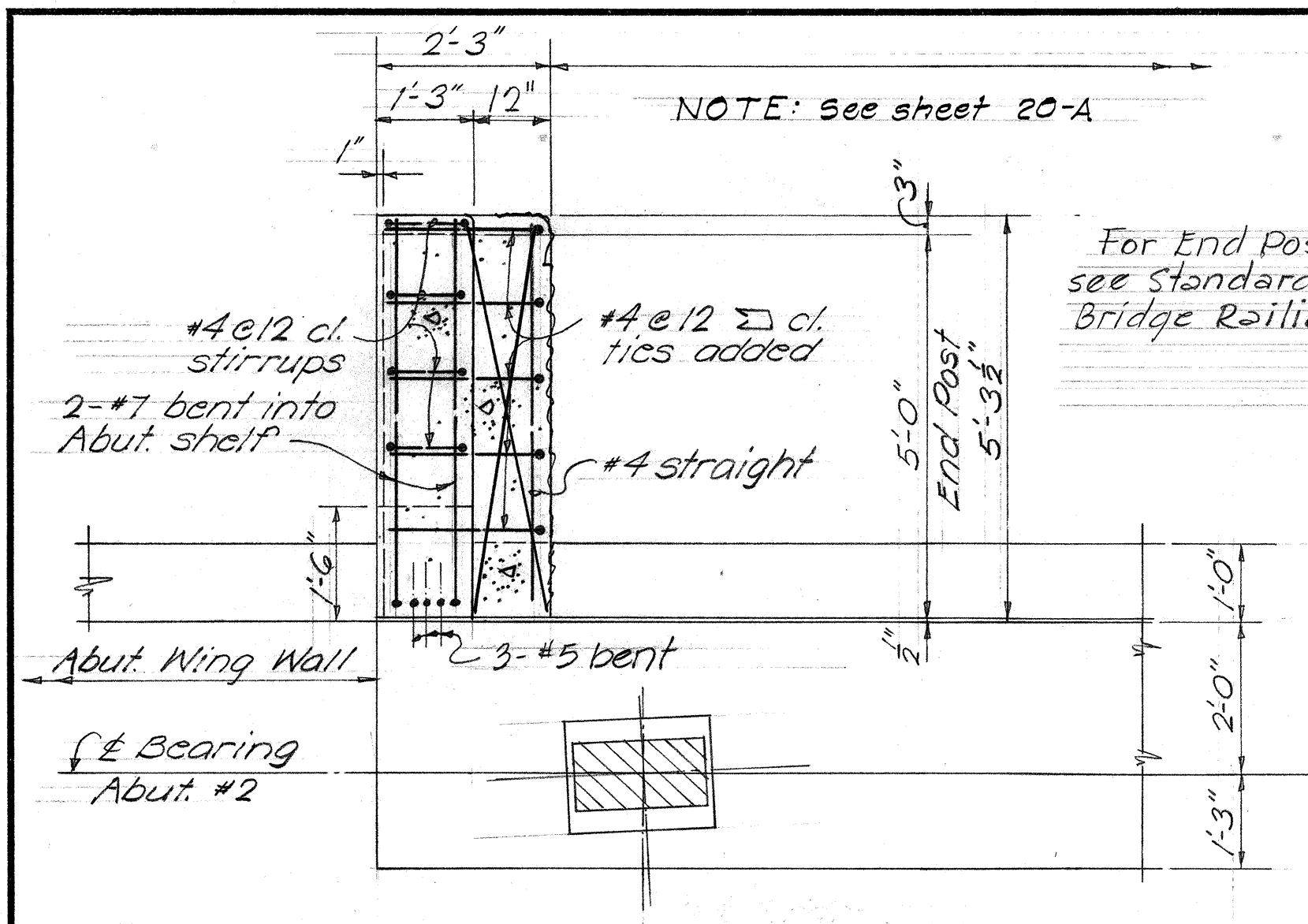
ABUTMENT #2- SECTIONS & DETAILS

KUALA BELT ROAD PROJ. N° S-0560 (

Oct. 1966 Unit 2

SHEET No. 17 OF 20 SHEETS

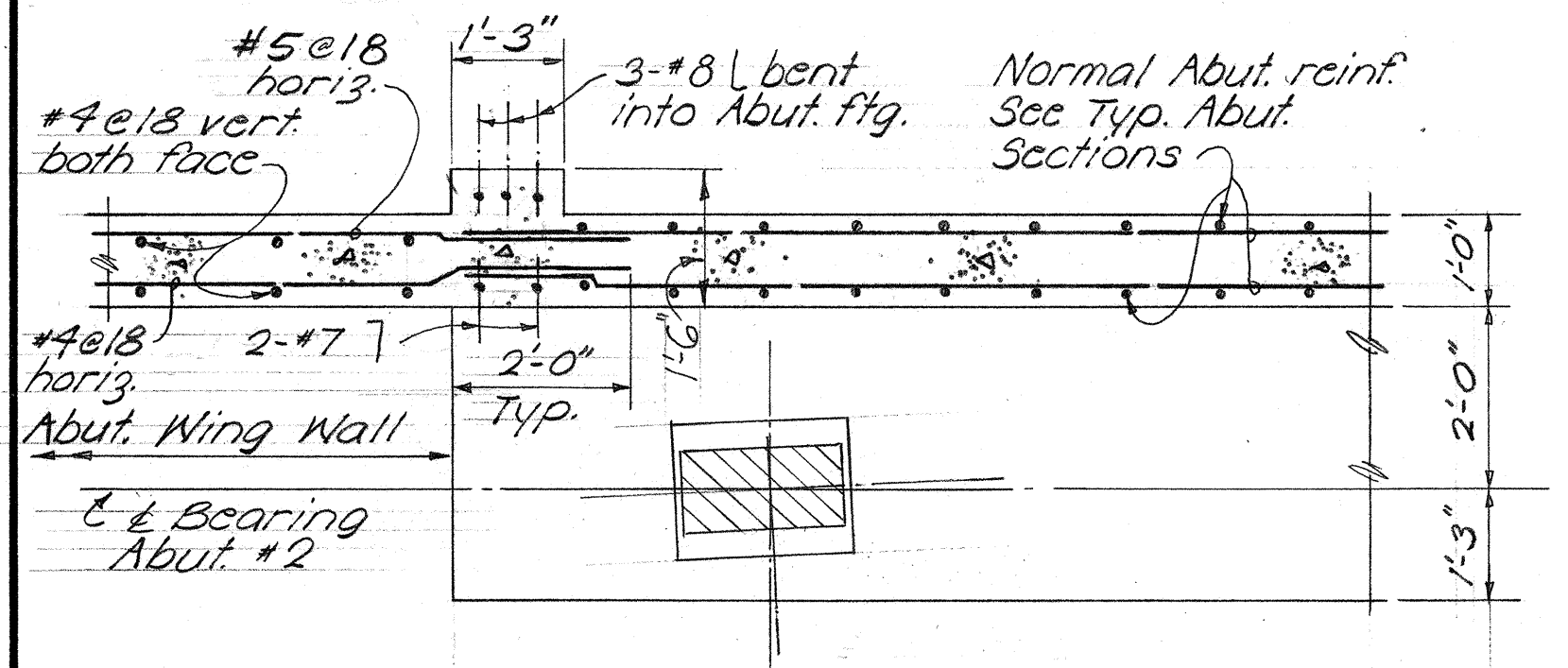
FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	5-0560	1966	30	43



PLAN-TYPICAL ABUTMENT CURB

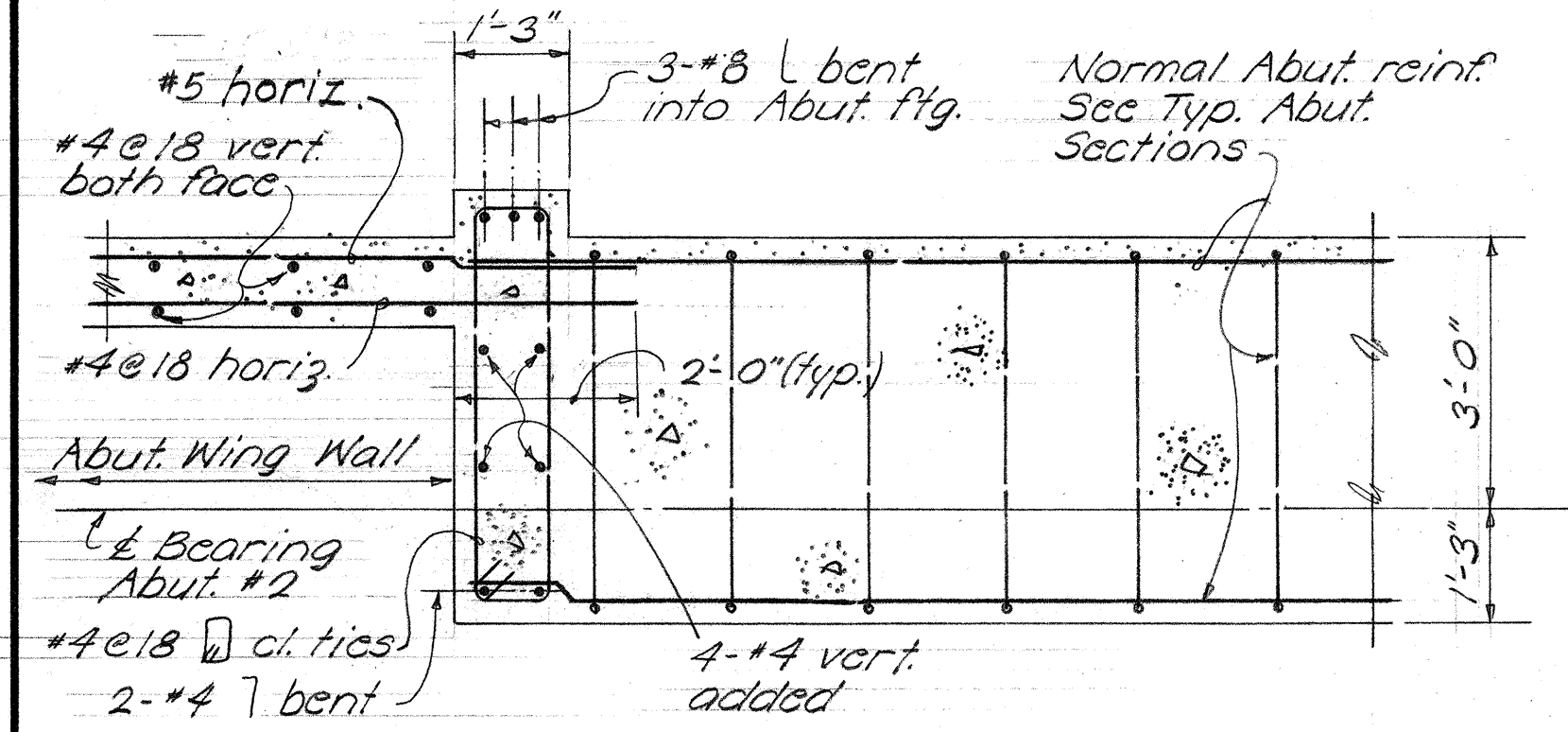
DETAIL A18 SECTION A18 (SIMILAR EXCEPT OPPOSITE HAND)

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



TYPICAL SECTION B18 (SECTION B18)

SIMILAR EXCEPT OPPOSITE HAND Scale: 1/2"=1'-0"



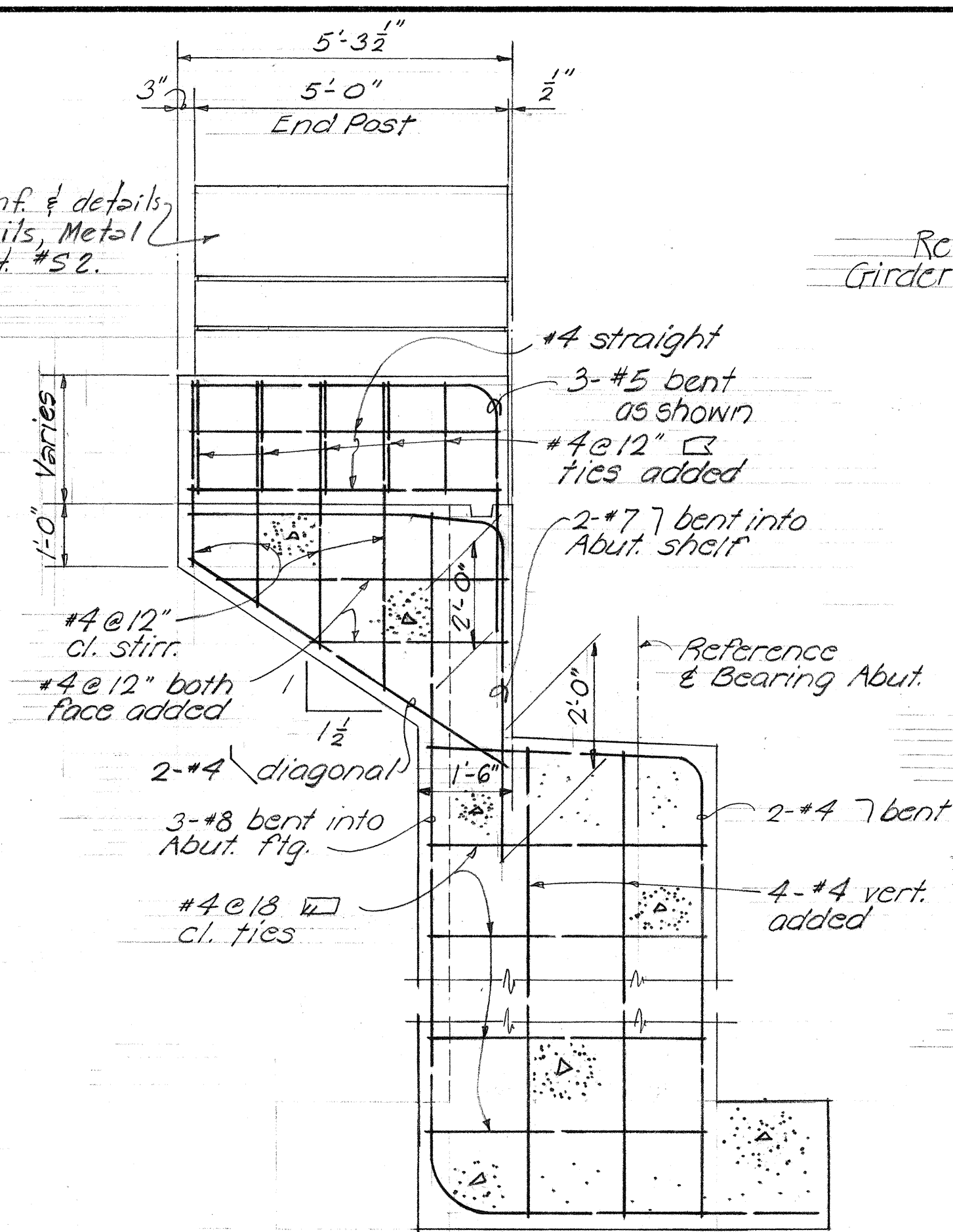
TYPICAL SECTION C18 (SECTION C18)

SIMILAR EXCEPT OPPOSITE HAND

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

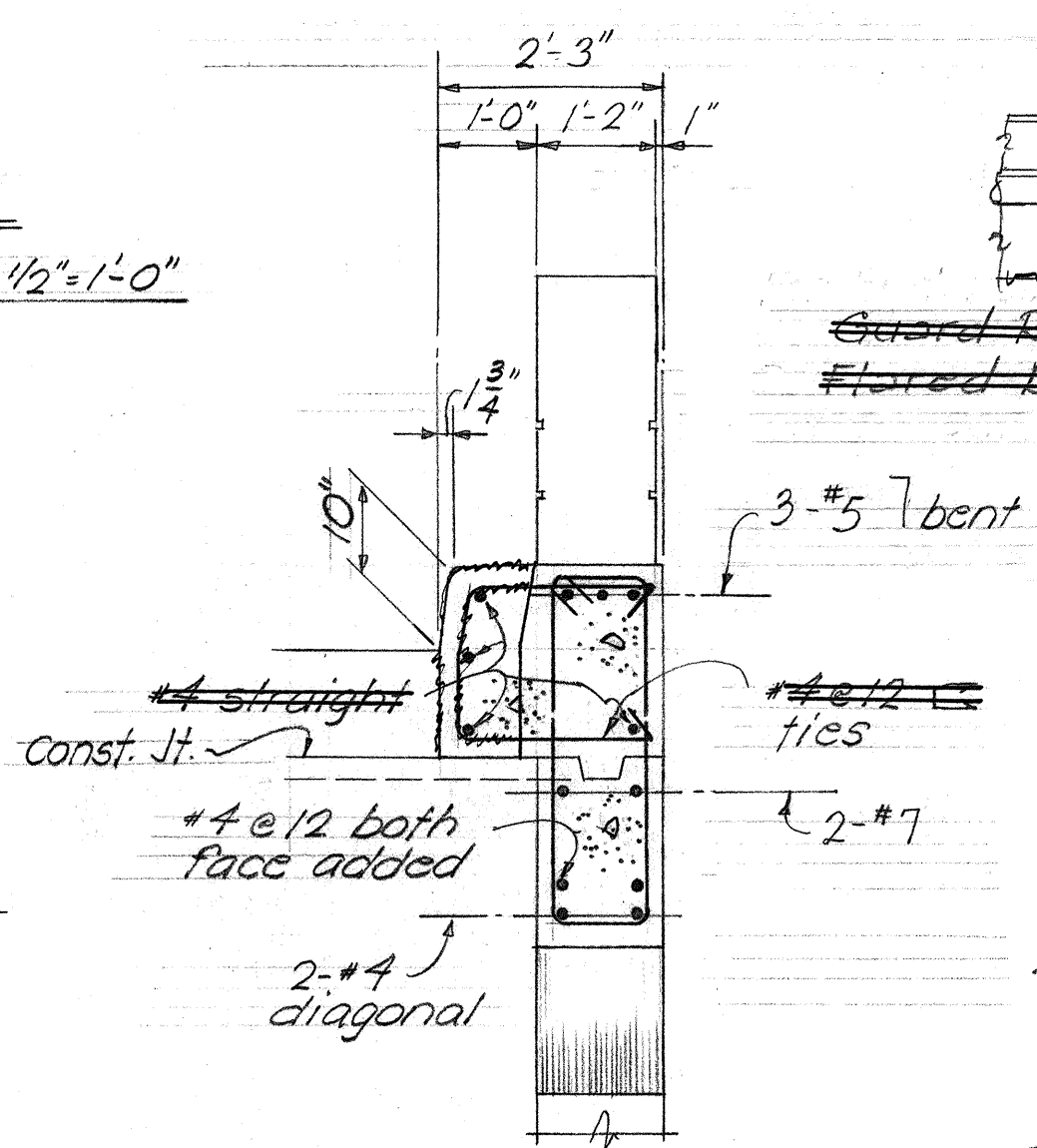
Note!

For exact location of 2-4" H.T. Co. Ducts in curb, see details on sht. #20.



TYPICAL SECTION D18 (SECTION D18)

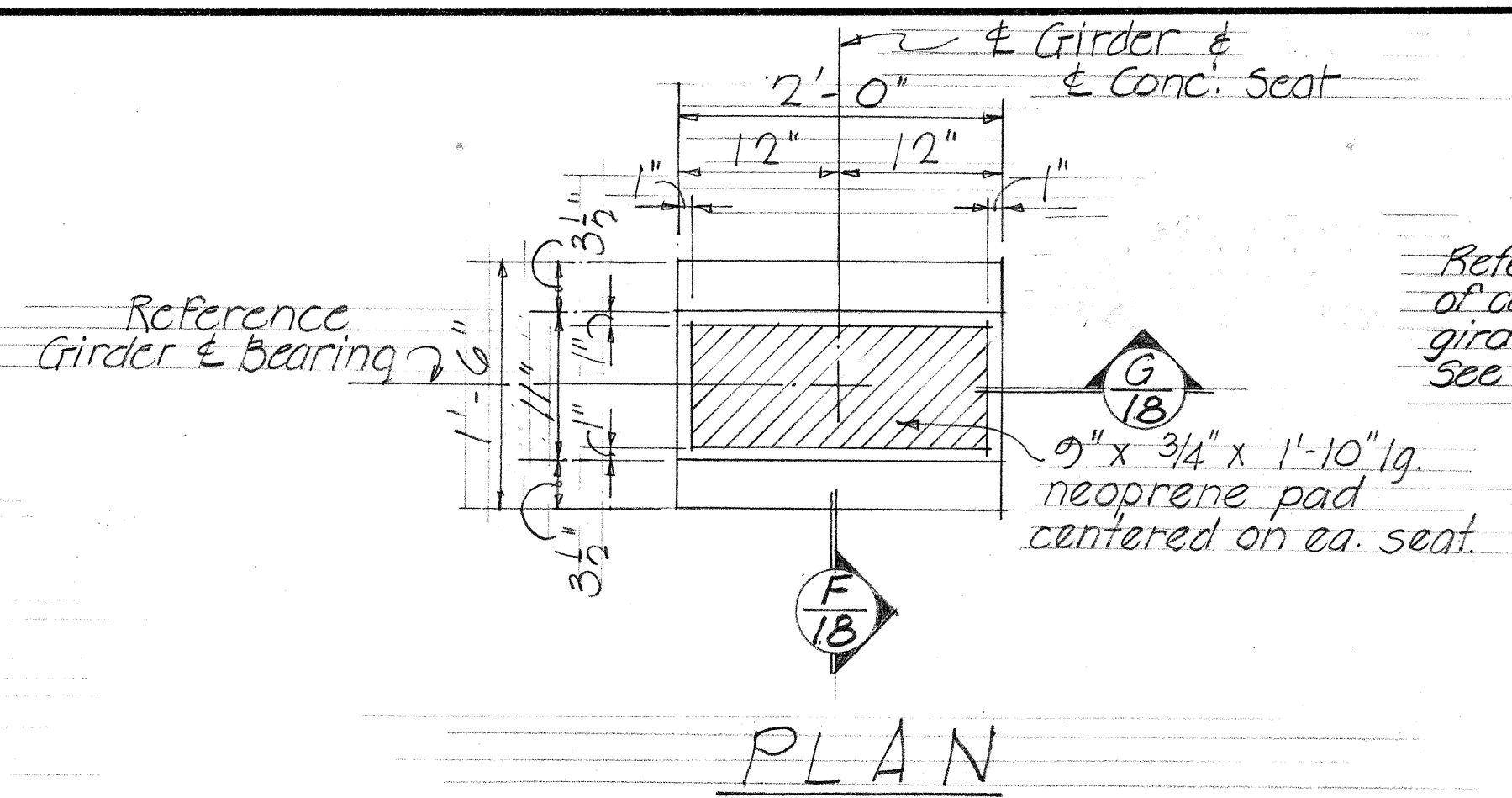
SIMILAR EXCEPT OPPOSITE HAND Scale: 1/2"=1'-0"



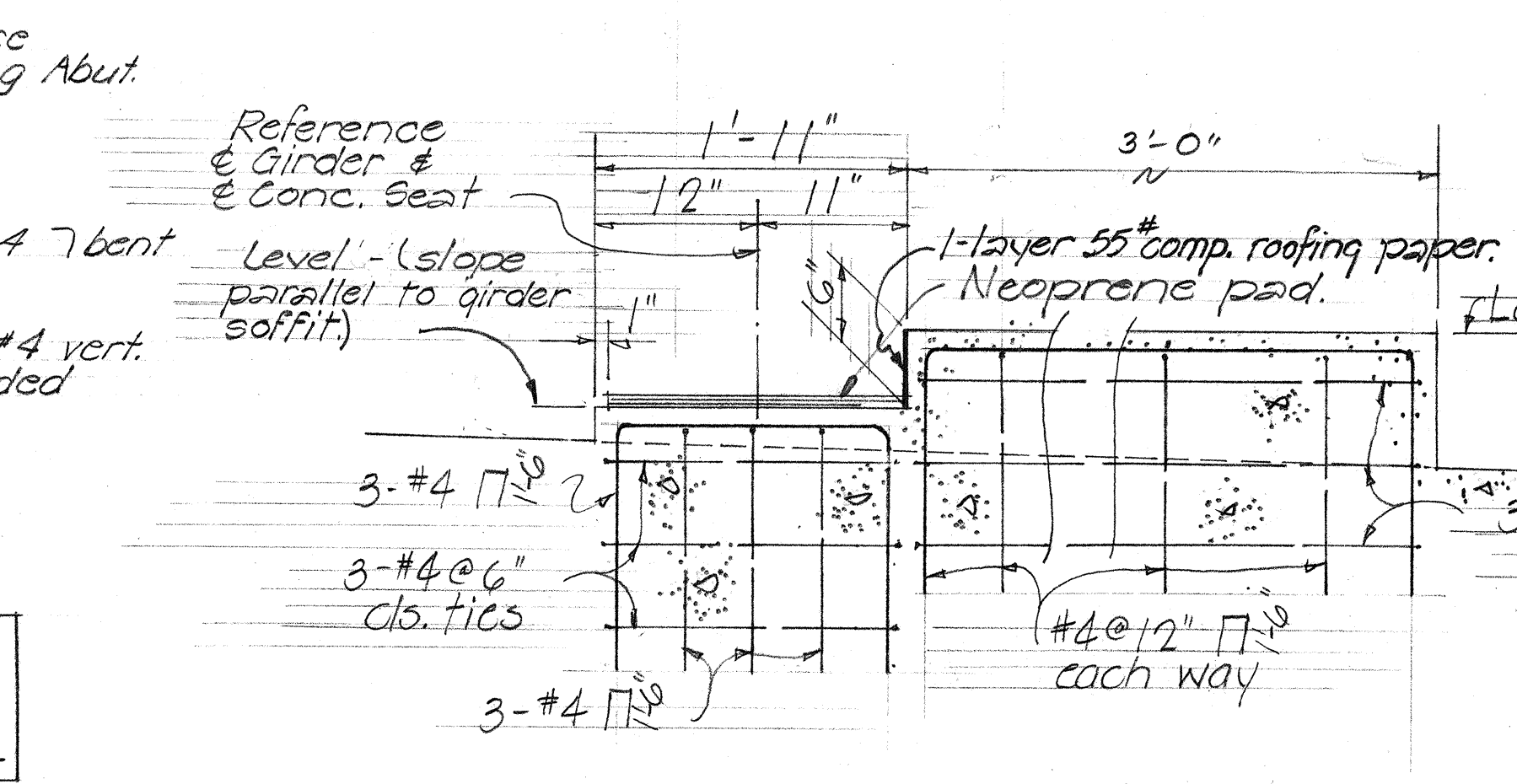
TYPICAL SECTION E18 (SECTION E18)

SIMILAR EXCEPT OPPOSITE HAND

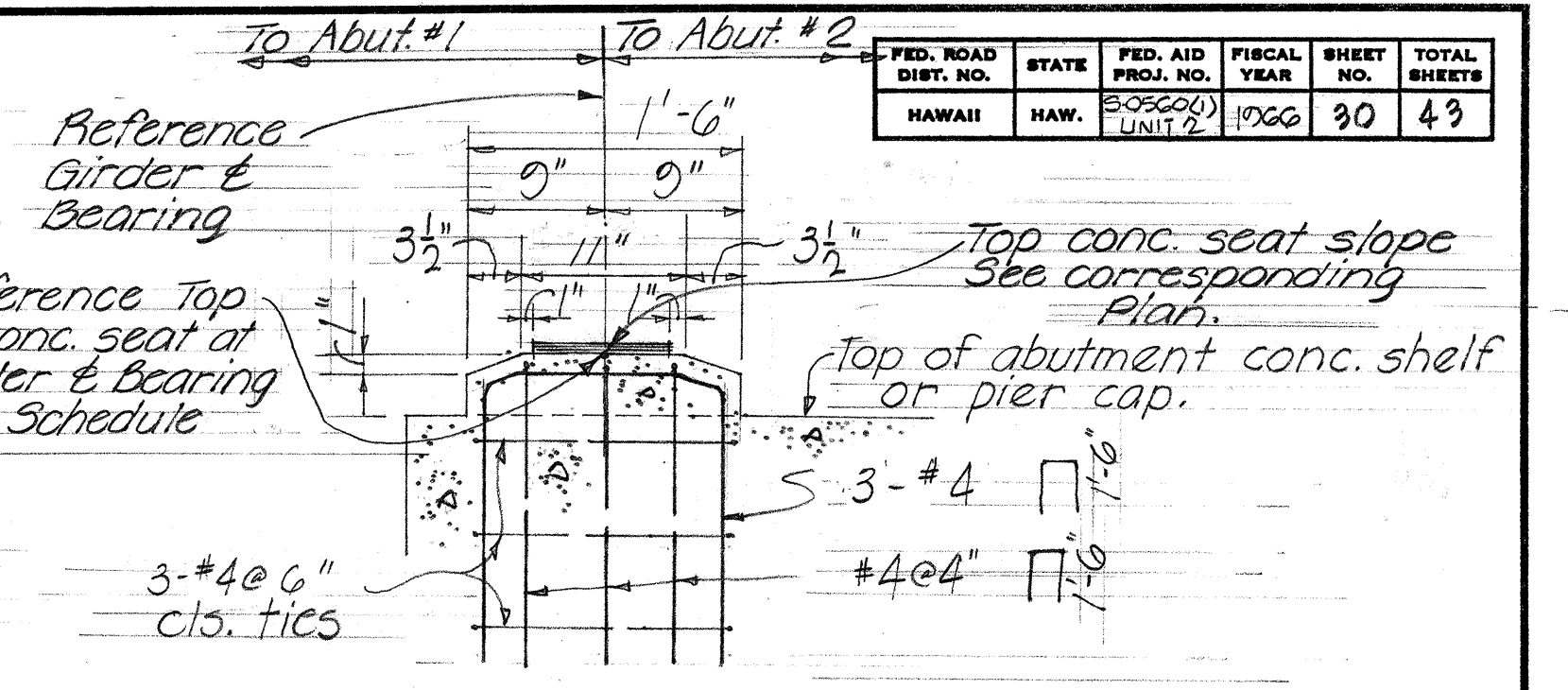
Scale: 1/2"=1'-0"



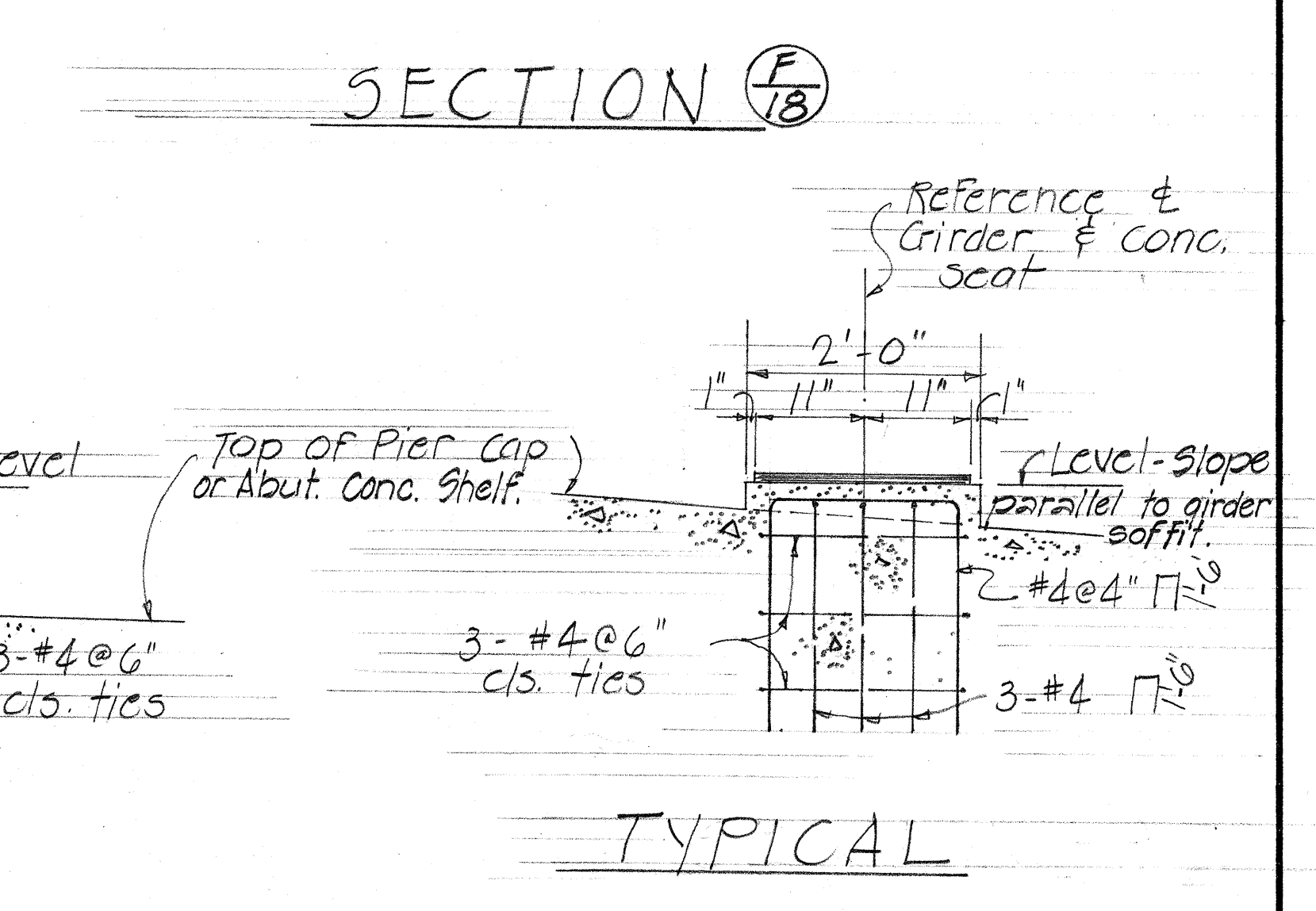
PLAN



AT CREEP BLOCK



SECTION F18

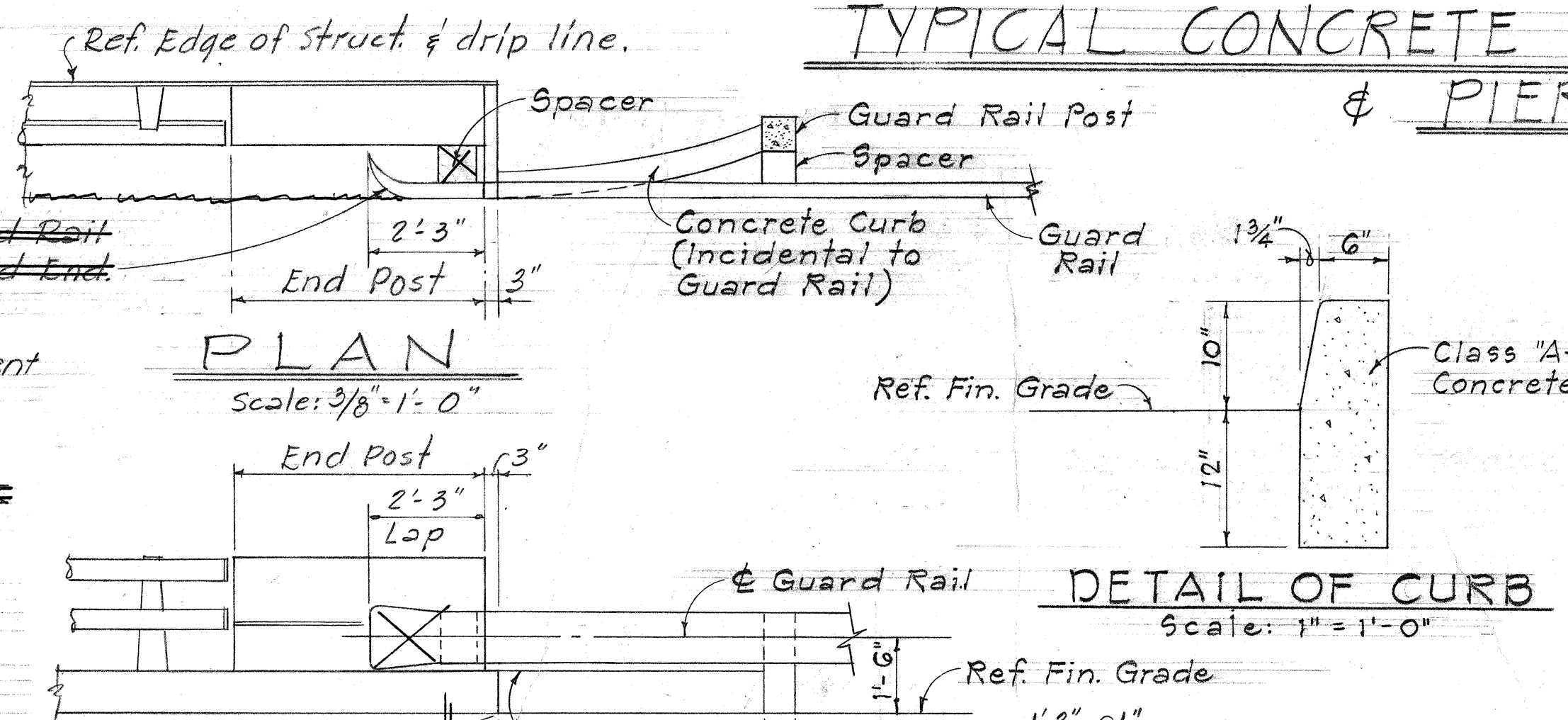


TYPICAL

TYPICAL CONCRETE SEAT DETAILS AT ABUTMENT #2

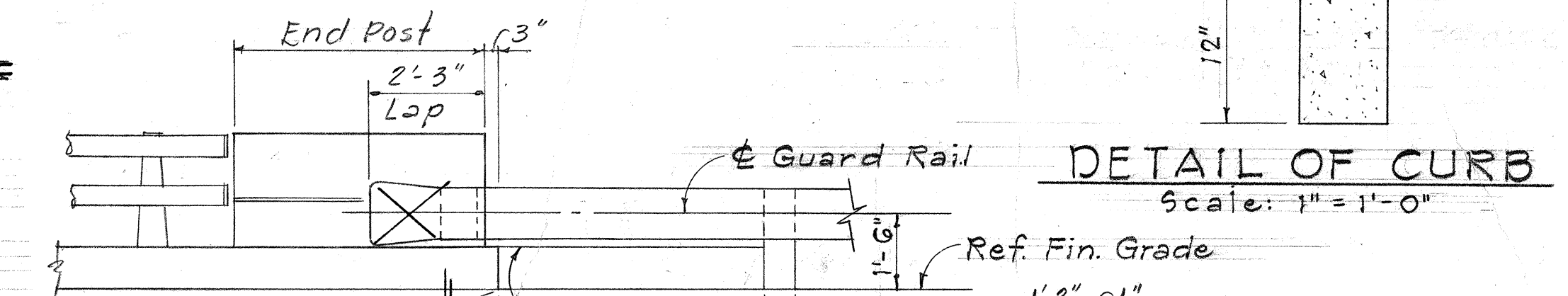
& PIERS #1, #3, #5 & #7

Scale: 1"=1'-0"



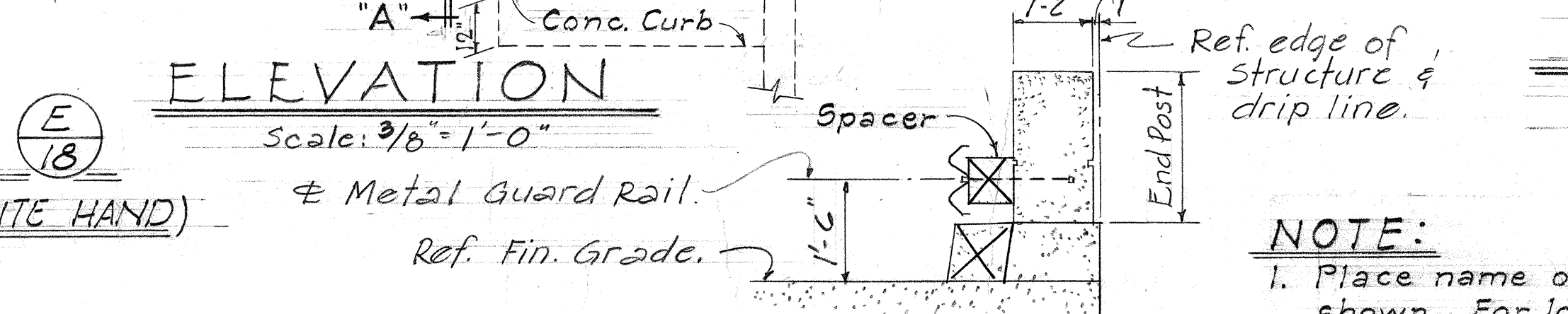
PLAN

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



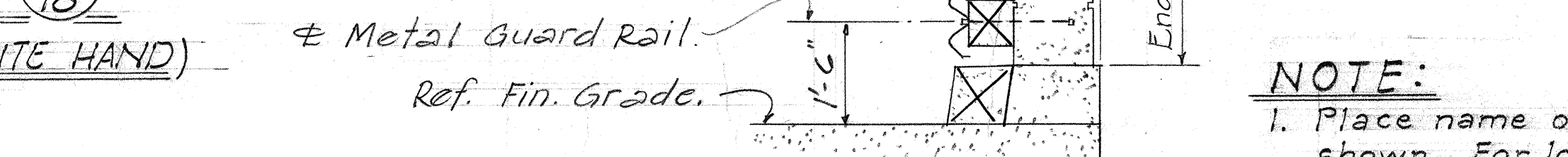
DETAIL OF CURB

Scale: 1"=1'-0"



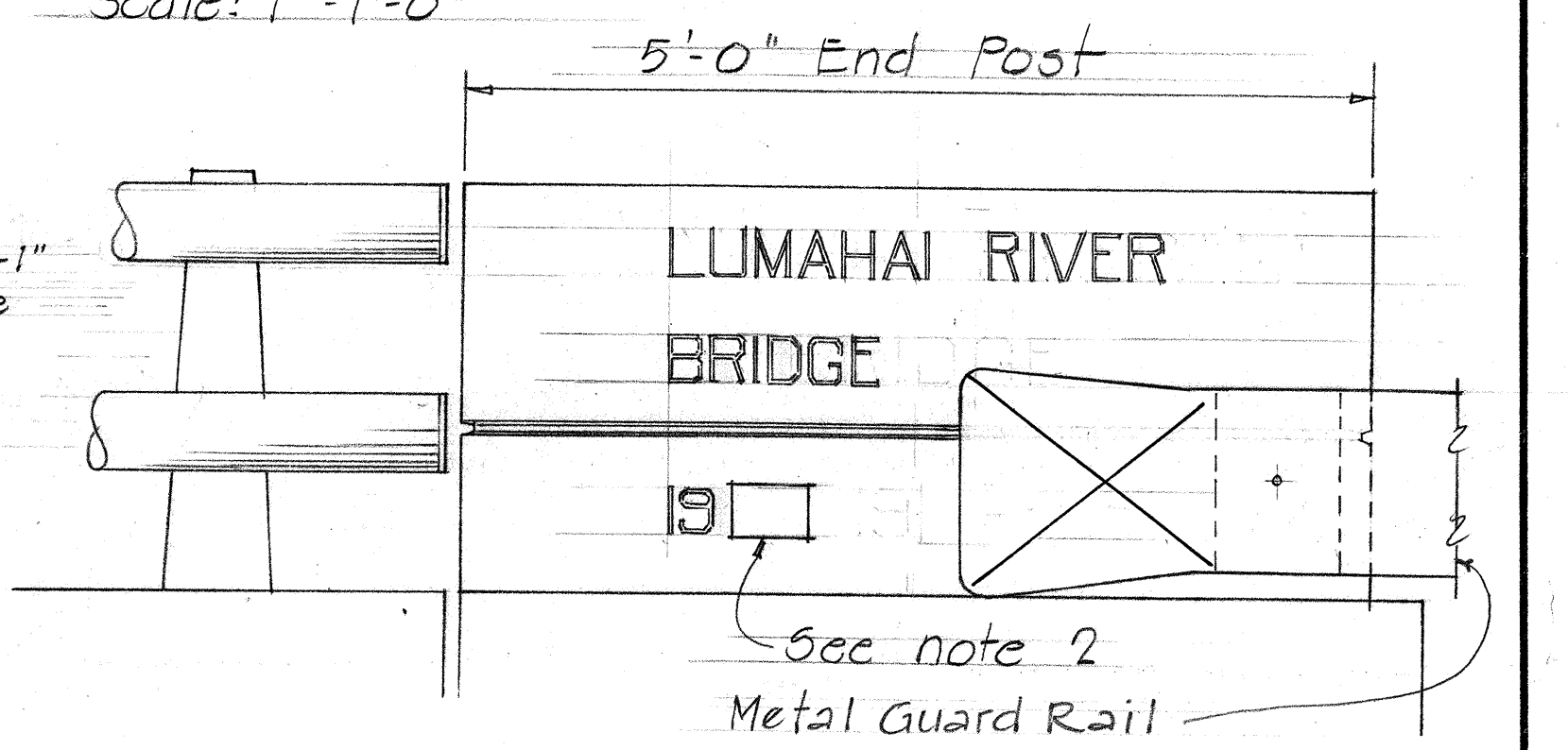
ELEVATION

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



SECTION "A"

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



TYPICAL BRIDGE NAME & YEAR-LOCATIONS AT END POST

Scale: 1"=1'-0"

NOTE:

1. Place name of structure as shown. For location, see Layout Plan.
2. Year shown will be year structure is completed.
3. Letter size and detail, see standard Bridge Detail Sheet No. 5-1.

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

LUMAHAU RIVER BRIDGE

Sta. 70+04.36 to Sta. 75+42.00

MISCELLANEOUS DETAILS

KAUAI BELT ROAD PROJ. NO. S-0560 (1)
Oct. 1966 Unit 2

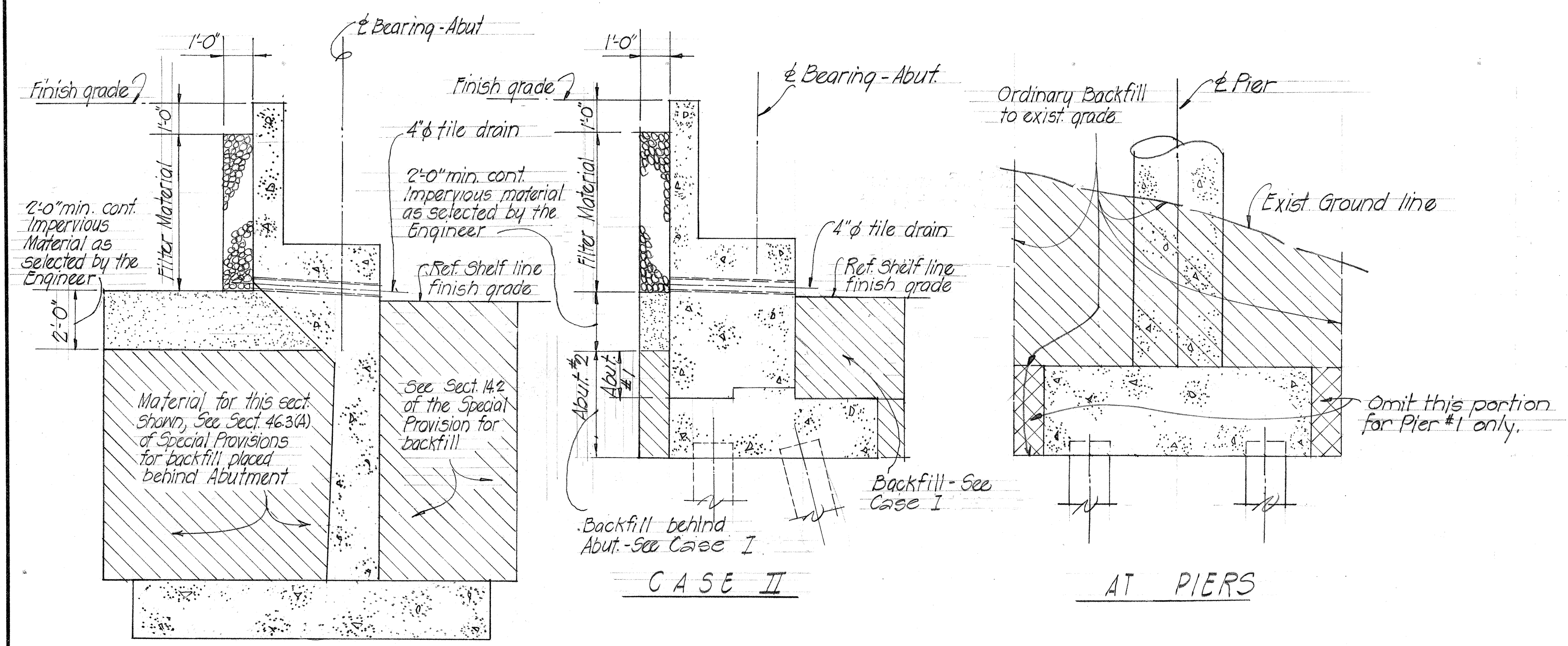
SHEET No. 18 OF 20 SHEETS

METAL GUARD RAIL DETAILS AT END POST

Scale as shown.

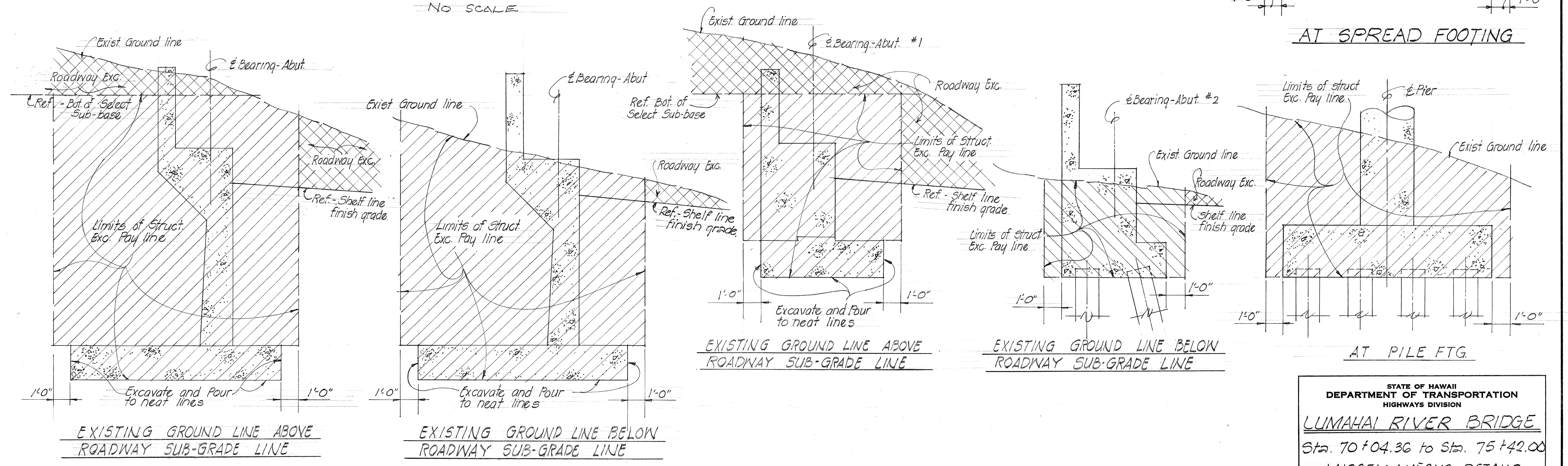
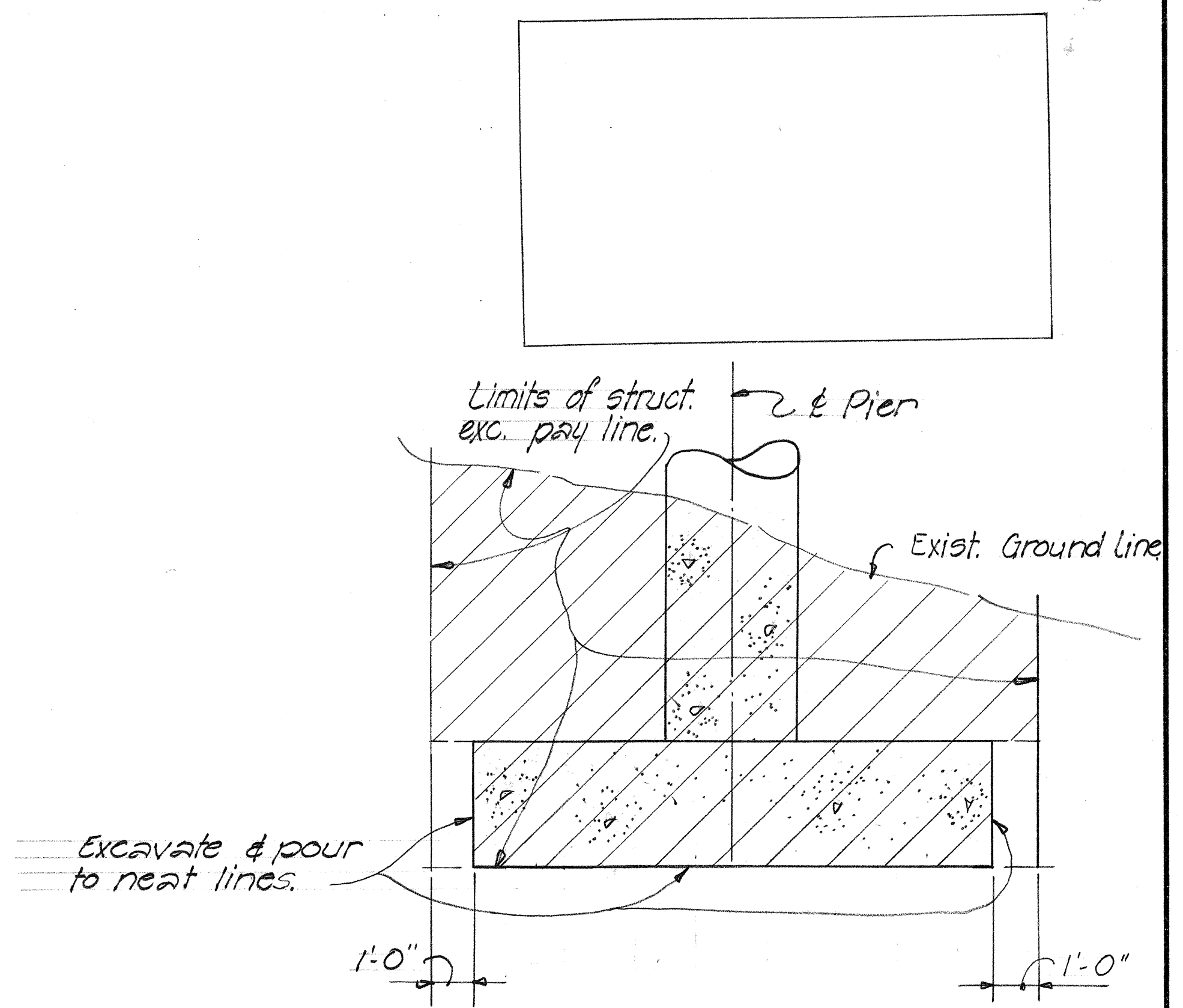
DATE	1/16/66
DESIGNED BY	W. L. LUTZ
CHECKED BY	W. L. LUTZ
NOTED BY	W. L. LUTZ
ORIGINAL PLAN	1/16/66
TRACED BY	W. L. LUTZ
NO.	1

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	5-0560 UNIT 2	1966	31	43



TYPICAL BACKFILL DETAIL

NO SCALE



TYPICAL LIMITS OF STRUCTURAL EXCAVATION PAYLINE FOR VARIOUS CONDITIONS

NO SCALE

DESIGNED BY	DATE
TRACED BY	1966
QUANTITIES BY	"
CHECKED BY	"
ORIGINAL PLAN	"
NOTE BOOK	"
No.	"

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

LUMAHAI RIVER BRIDGE

Sta. 70+04.36 to Sta. 75+42.00

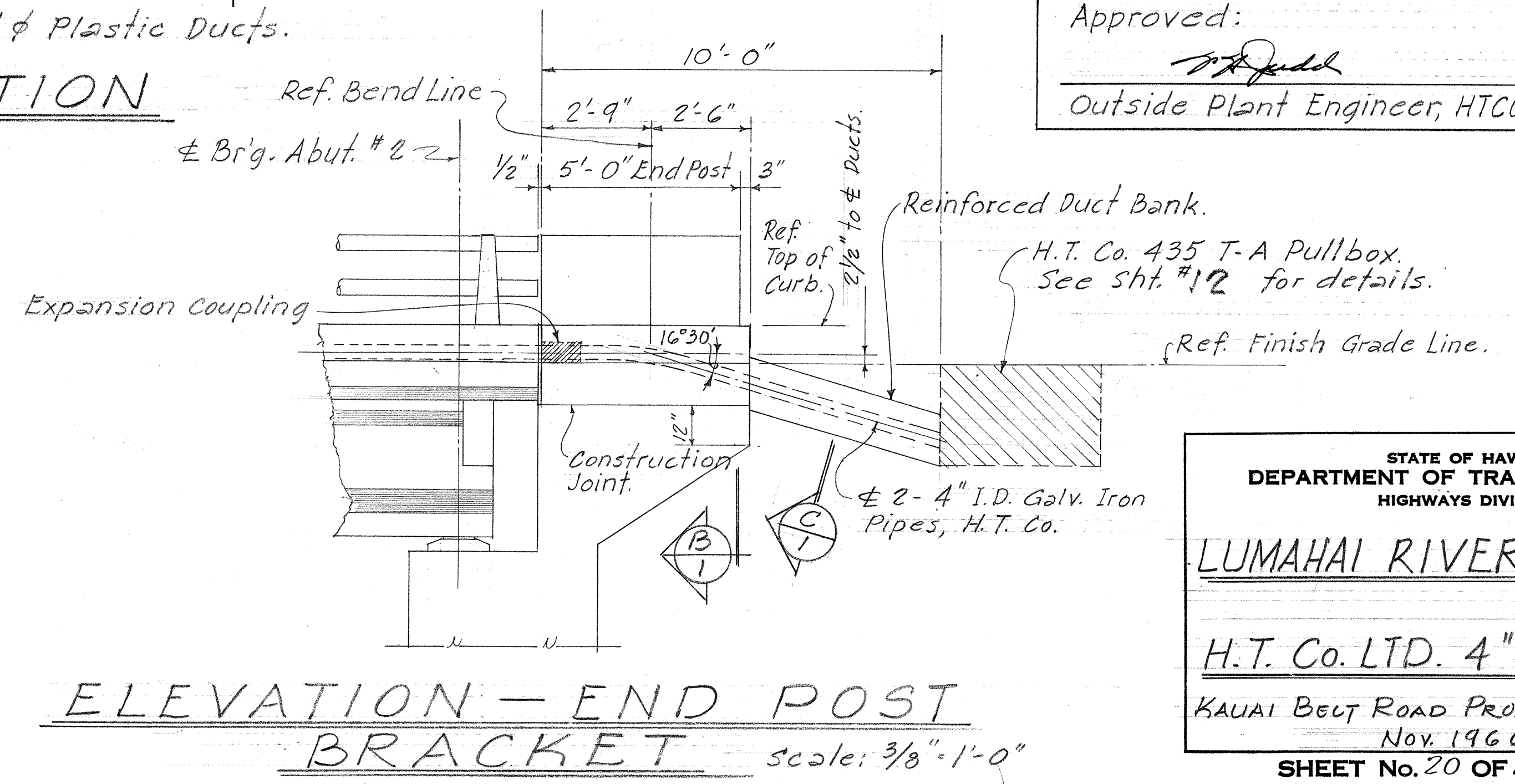
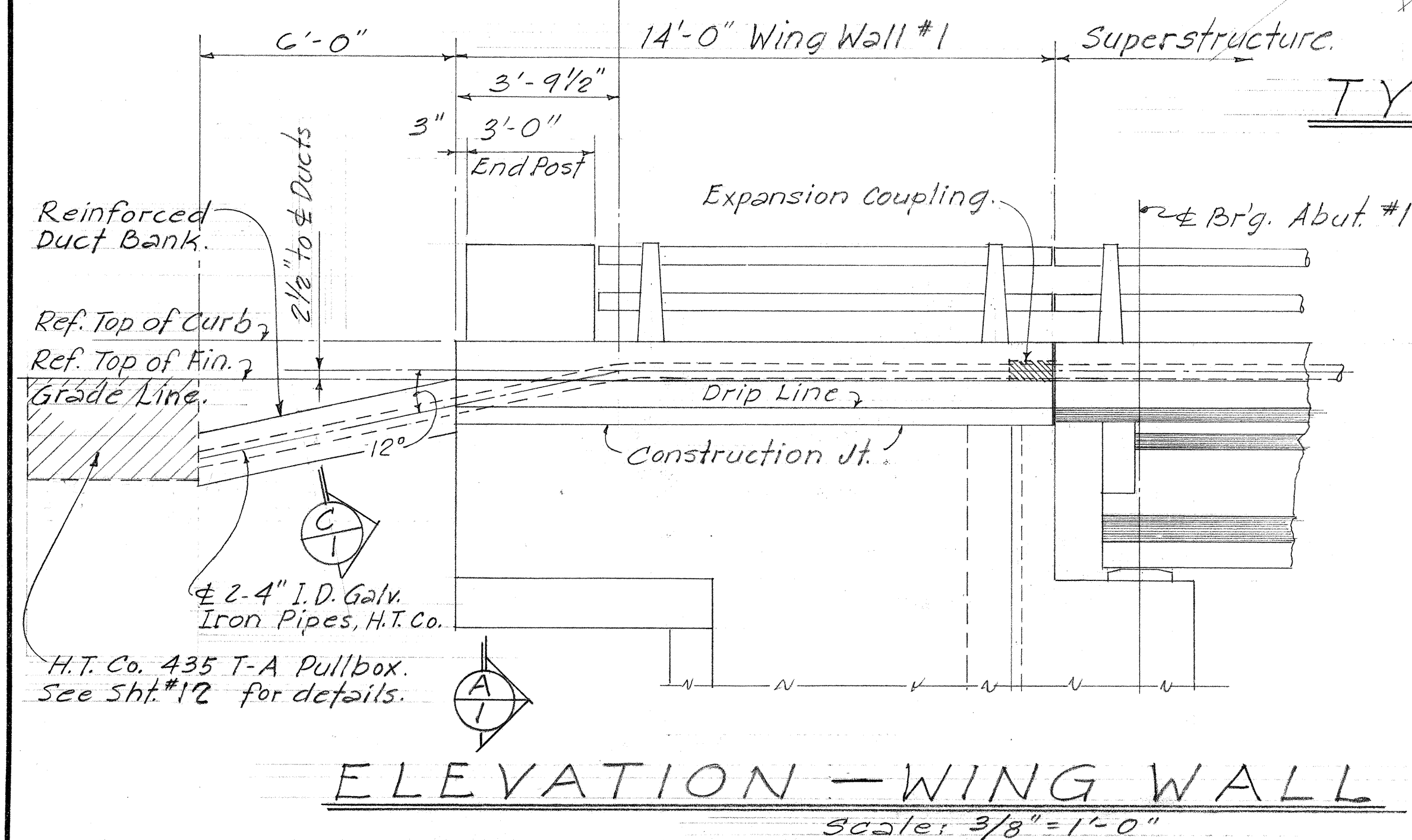
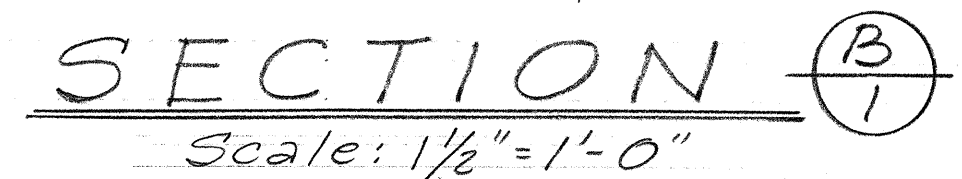
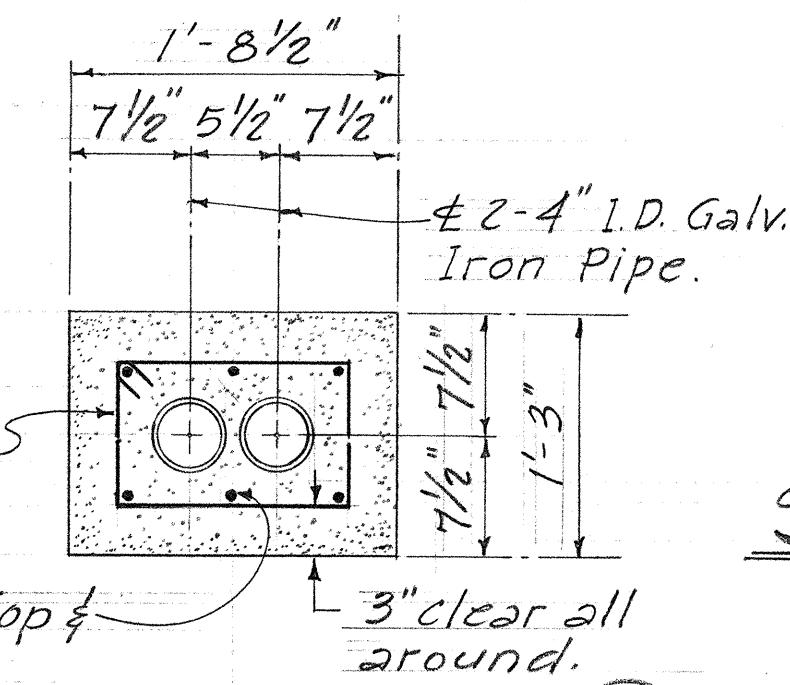
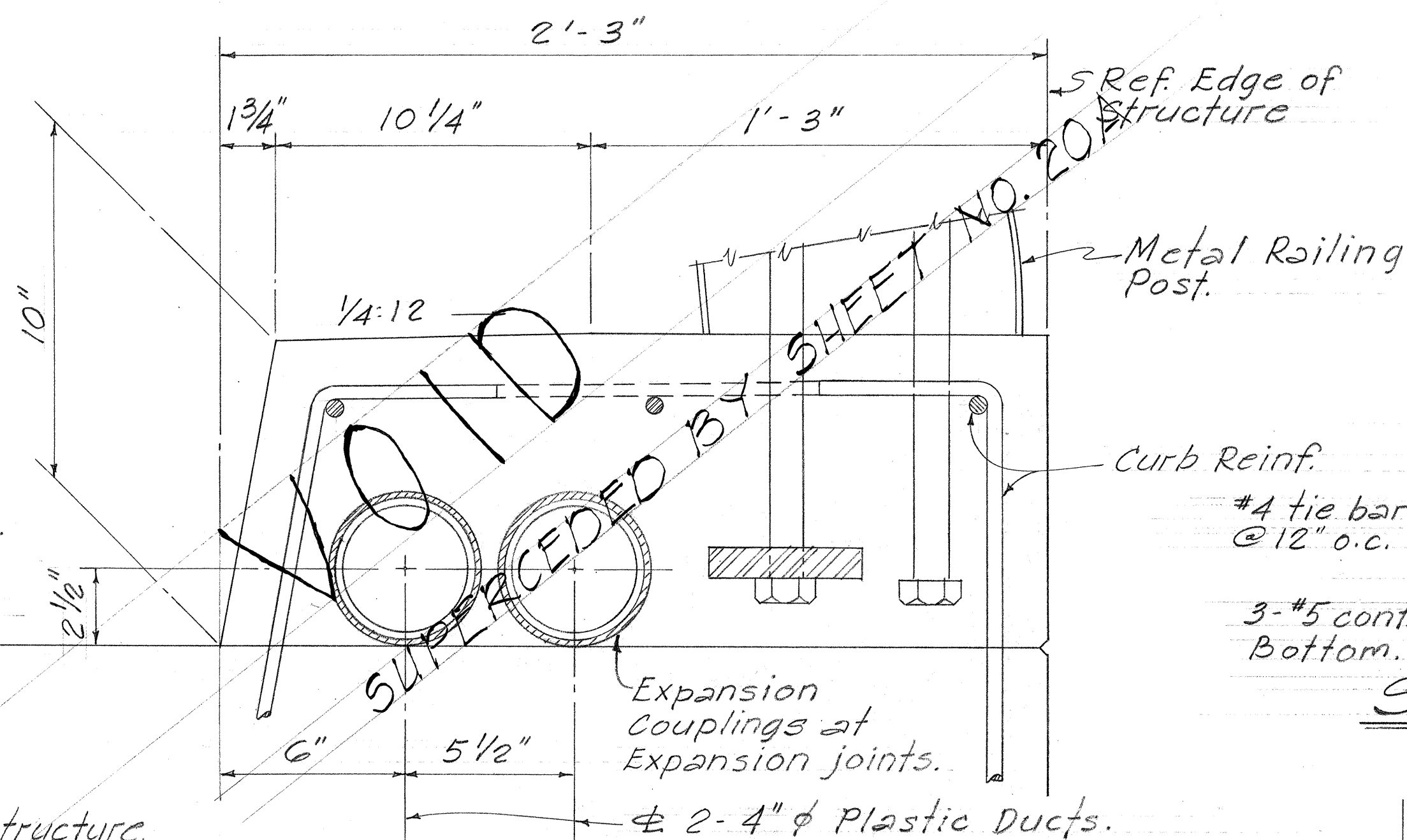
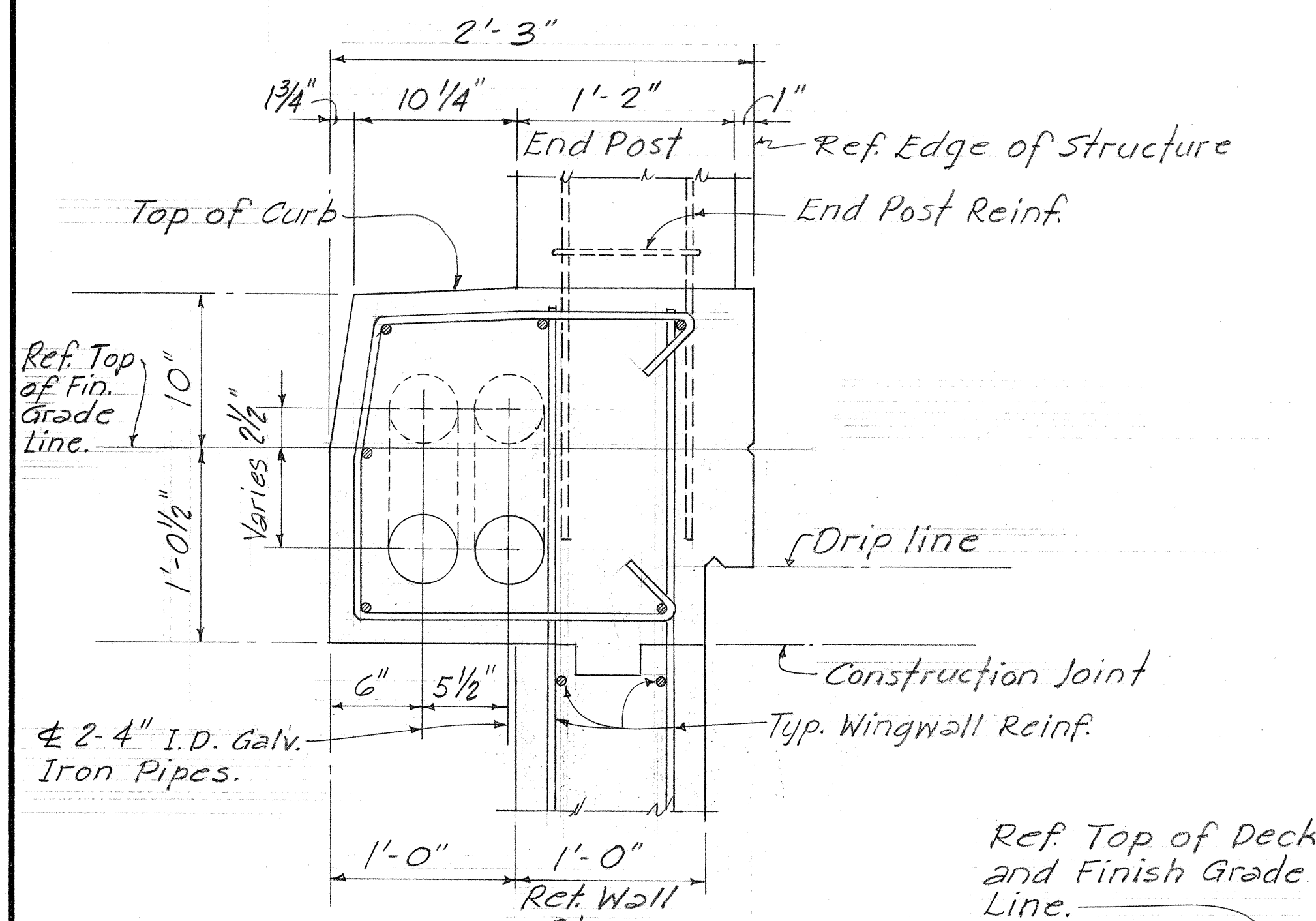
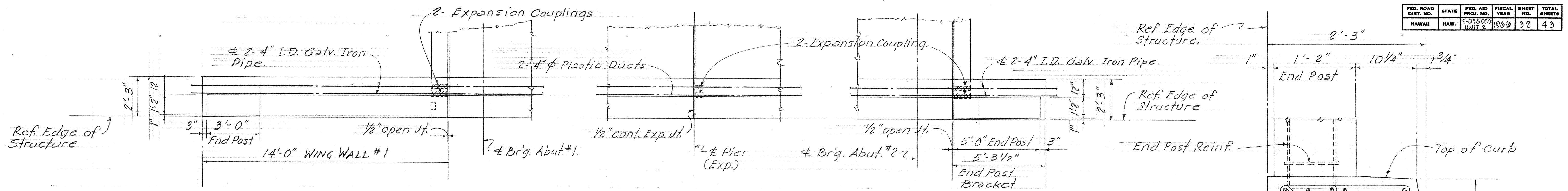
MISCELLANEOUS DETAILS

KAUAI BELT ROAD Proj. No. S-0560(1)

Oct. 1966 Unit 2

SHEET No. 19 OF 20 SHEETS

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	5-0560(1)	1966	32	43

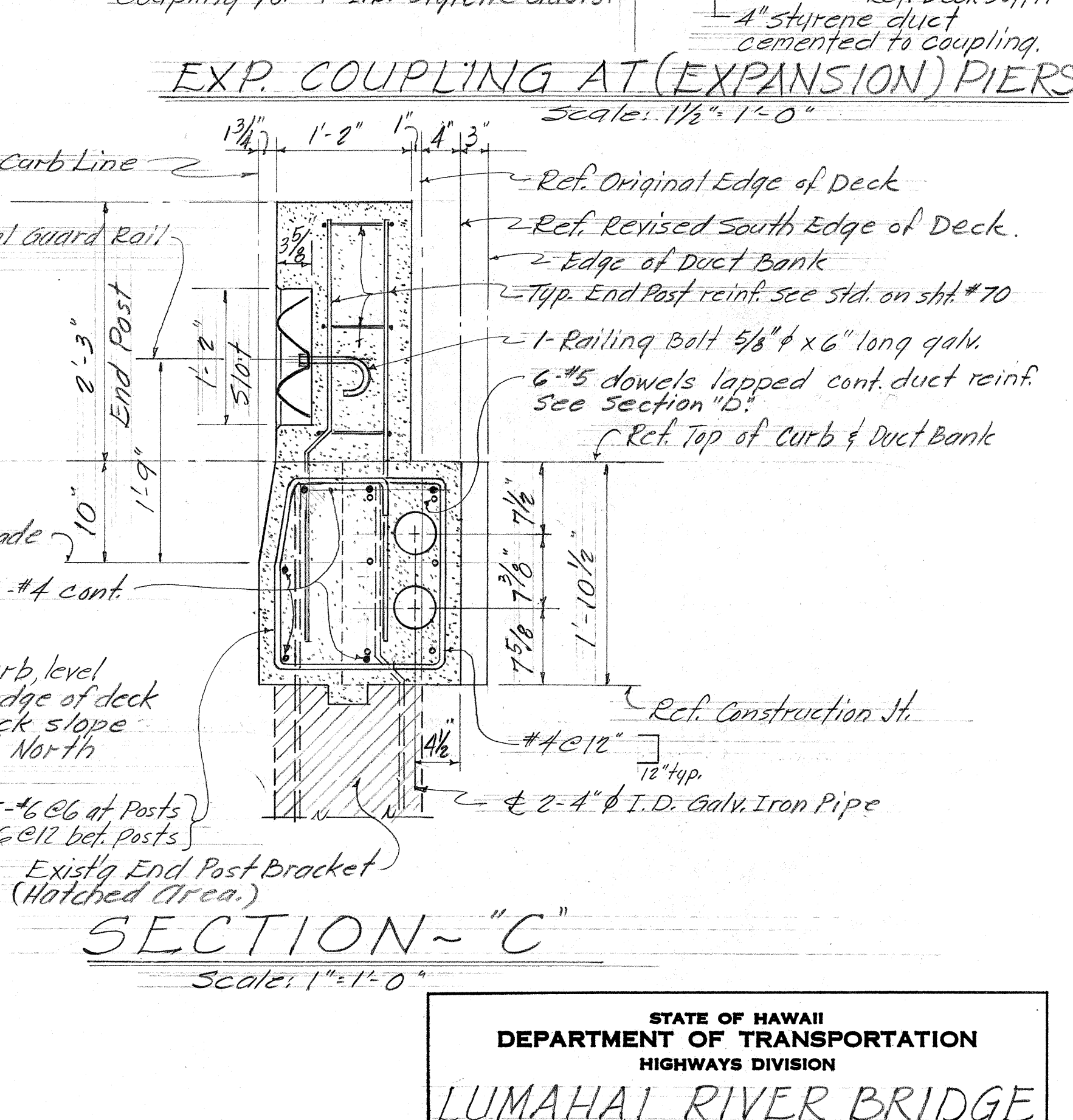
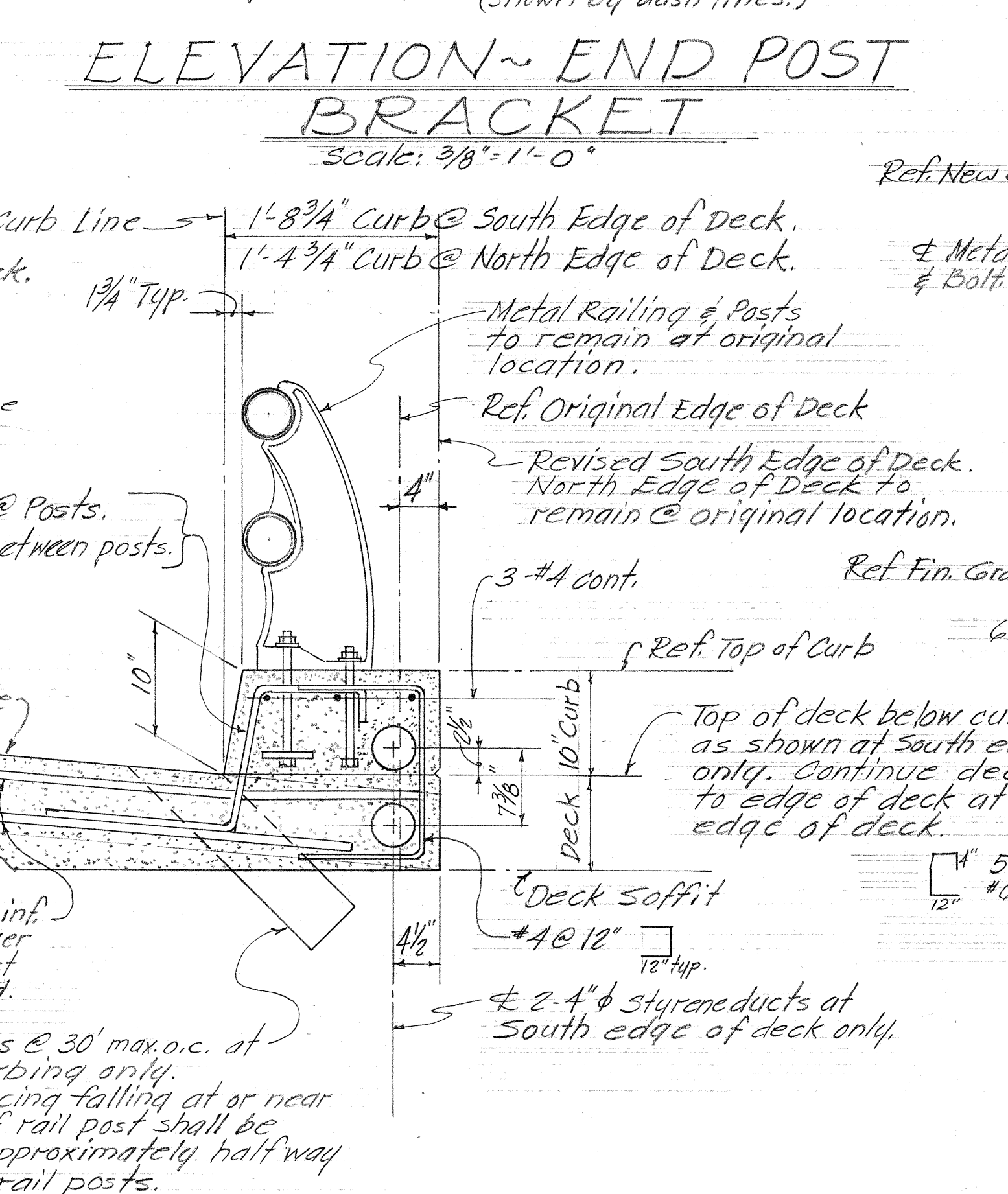
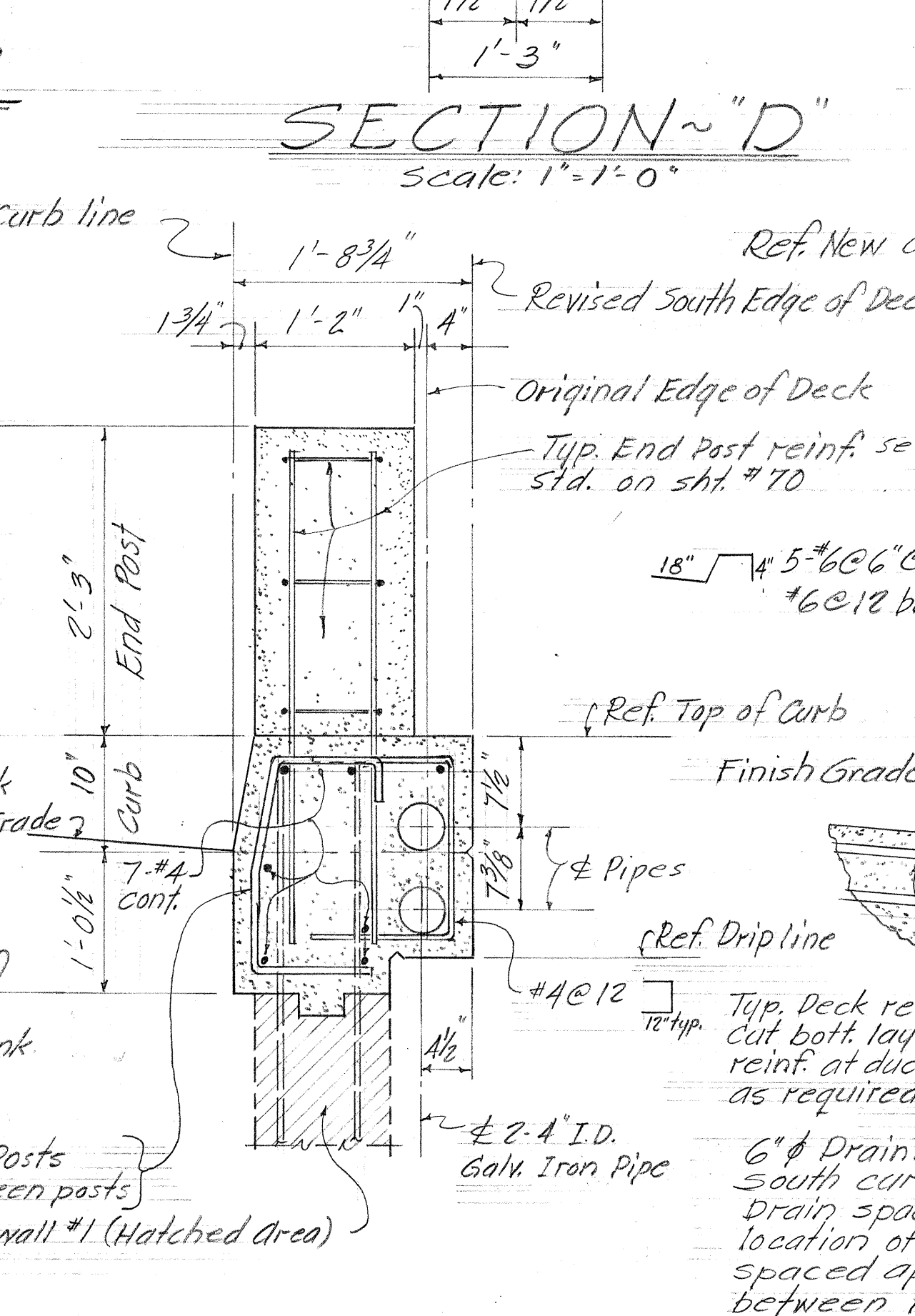
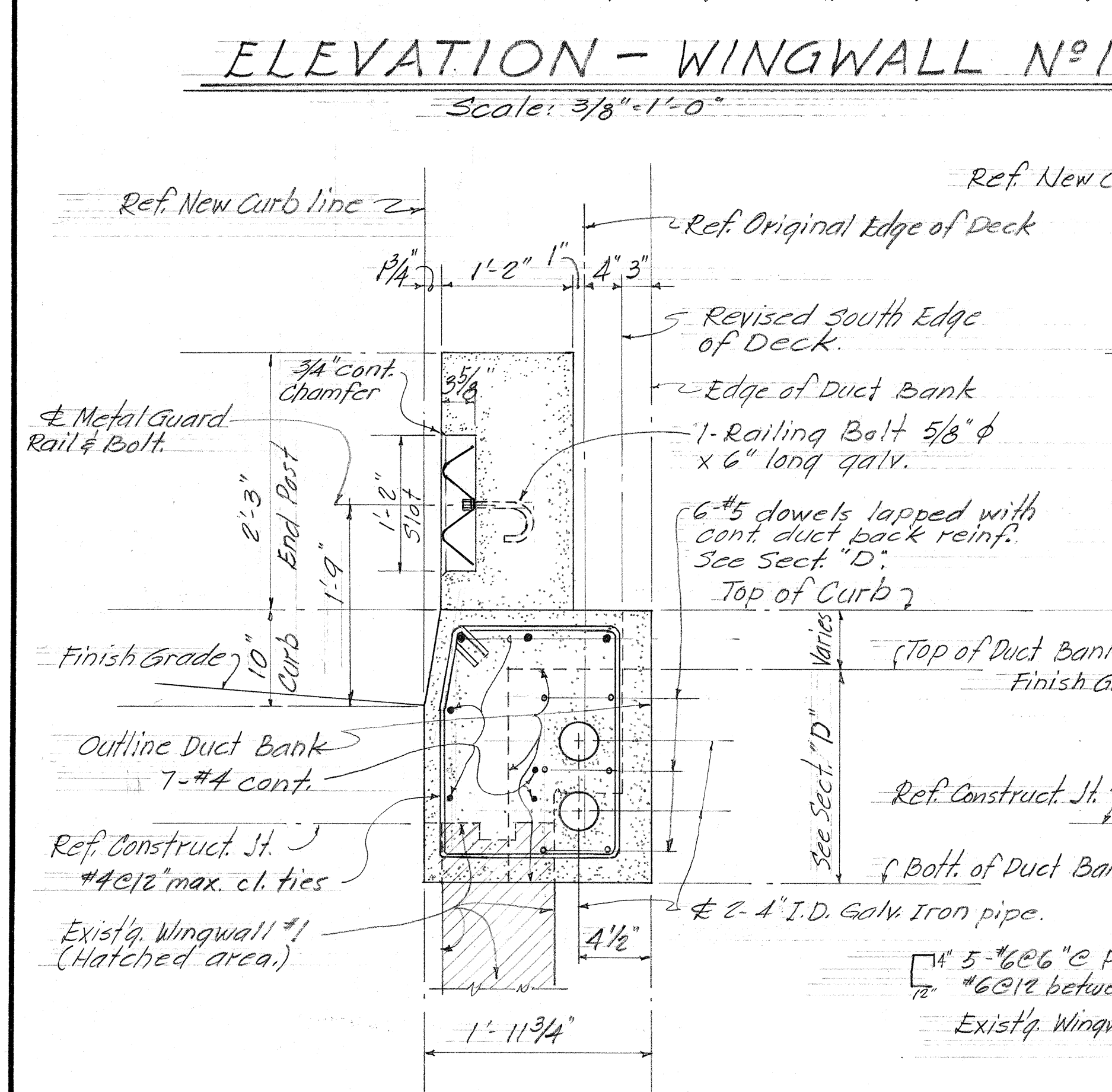
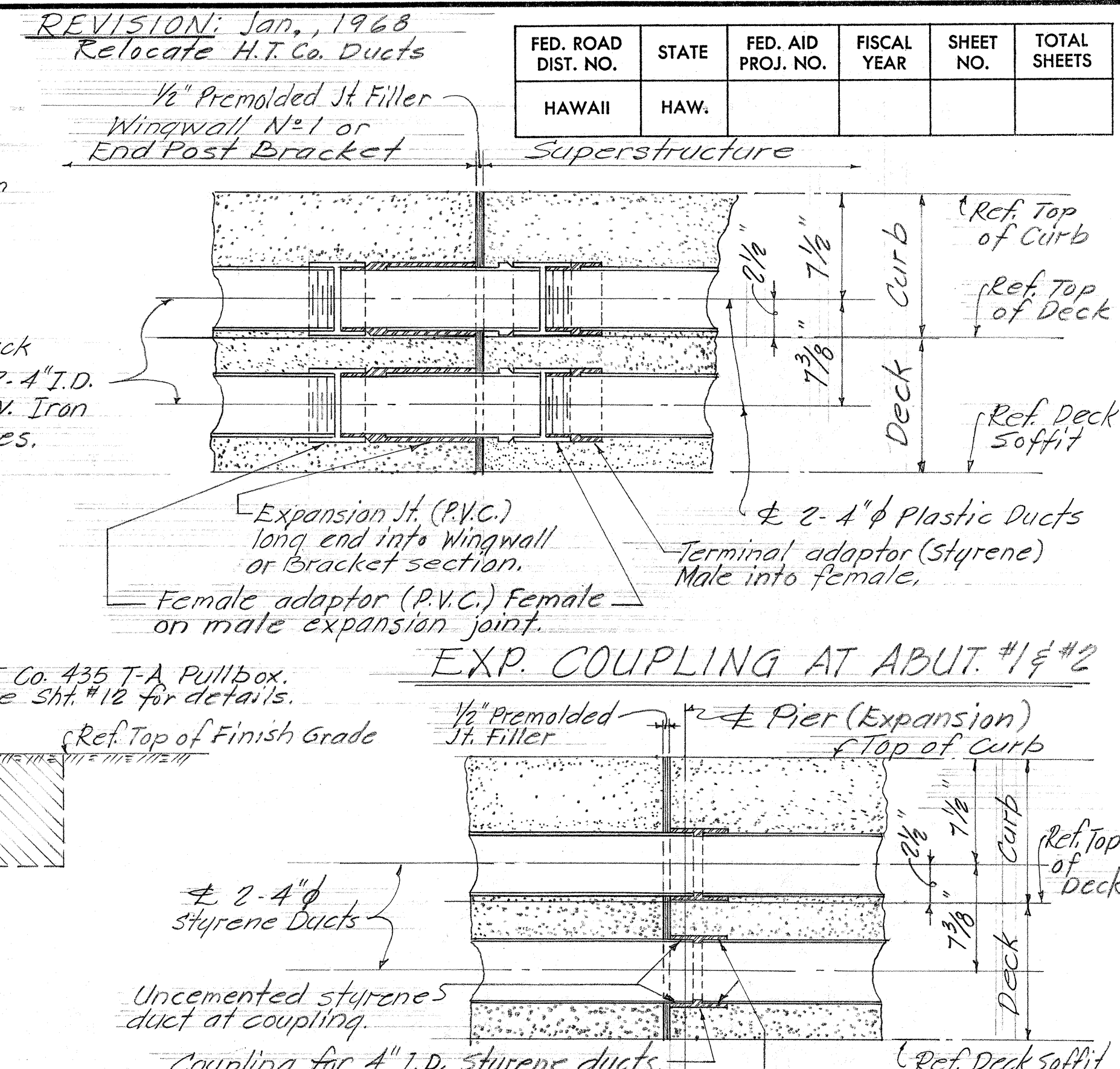
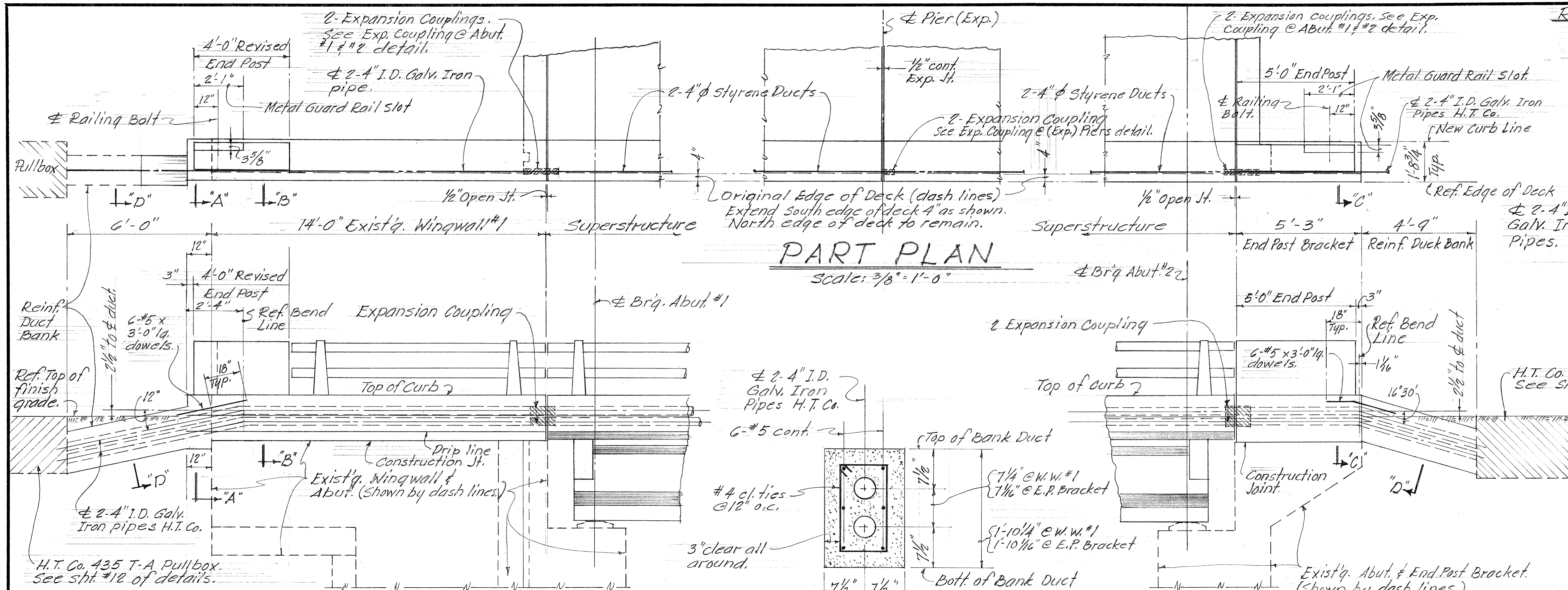


Approved: *[Signature]* 12-8-66
Outside Plant Engineer, H.T. Co. LTD. Date

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION
LUMAHAI RIVER BRIDGE
H.T. Co. LTD. 4" ϕ DUCTS.
KAUAI BELT ROAD PROJ. NO. 5-0560(1)
Nov. 1966 UNIT 2
SHEET No. 20 OF 20 SHEETS

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

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.				



STATE OF HAWAII DEPARTMENT OF TRANSPORTATION HIGHWAYS DIVISION	
LUMAHAI RIVER BRIDGE	
REVISED LOCATION OF H.T. CO. LTD. 4" Ø DUCTS	
KAUAI BELT ROAD PROJ. N° S-0560(1) UNIT 2	
DATE: JAN. 1968	
SHEET No. 20 OF 20 SHEETS	