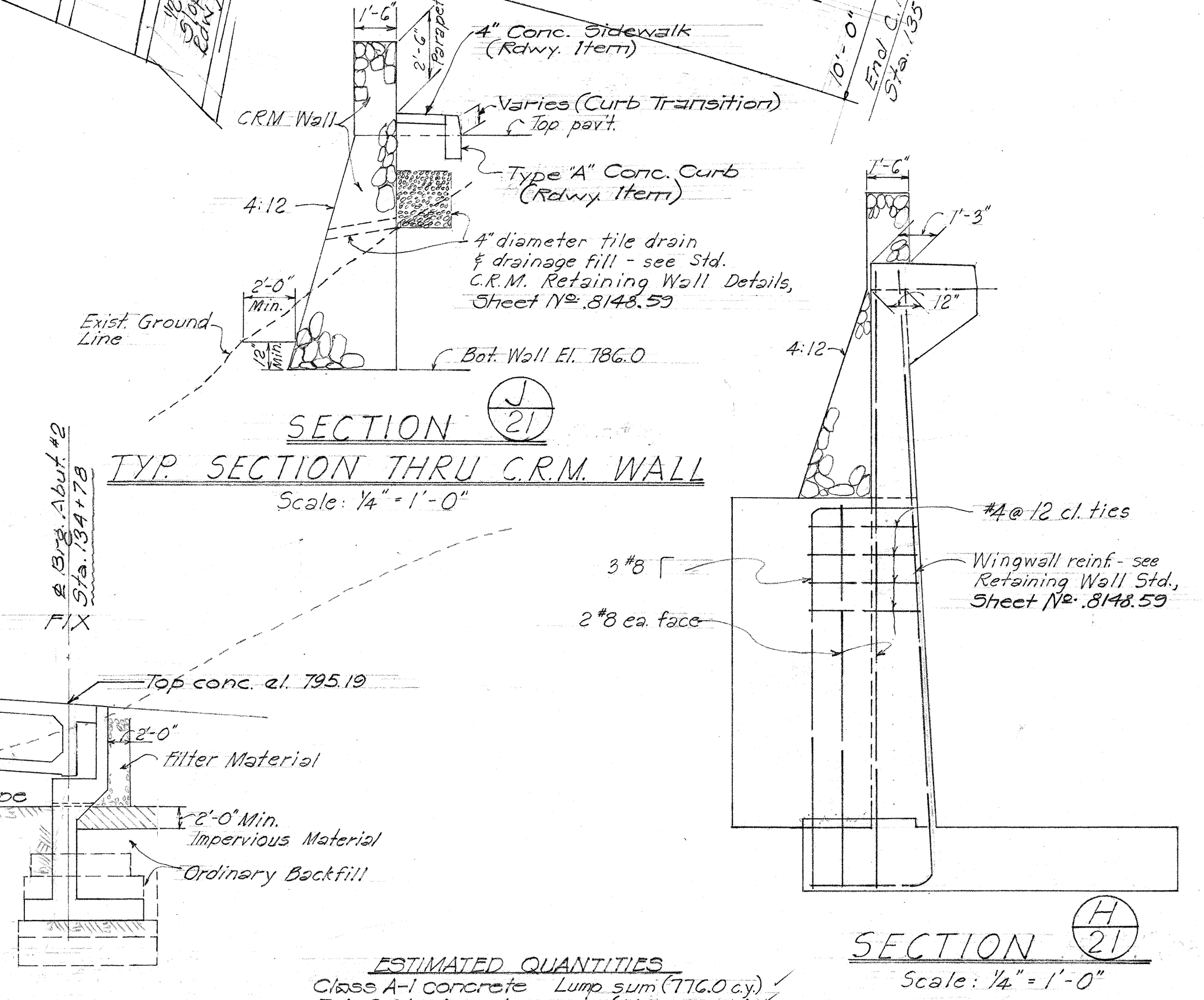
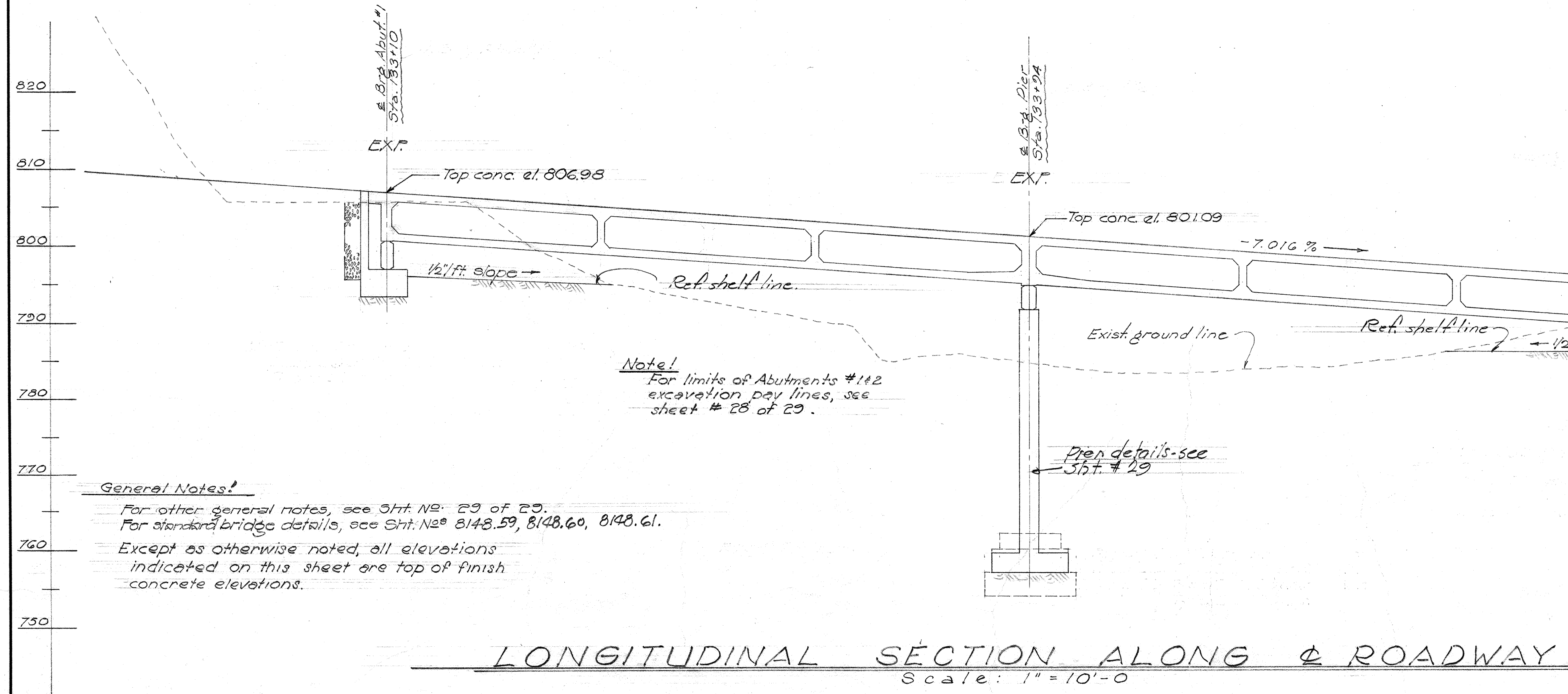
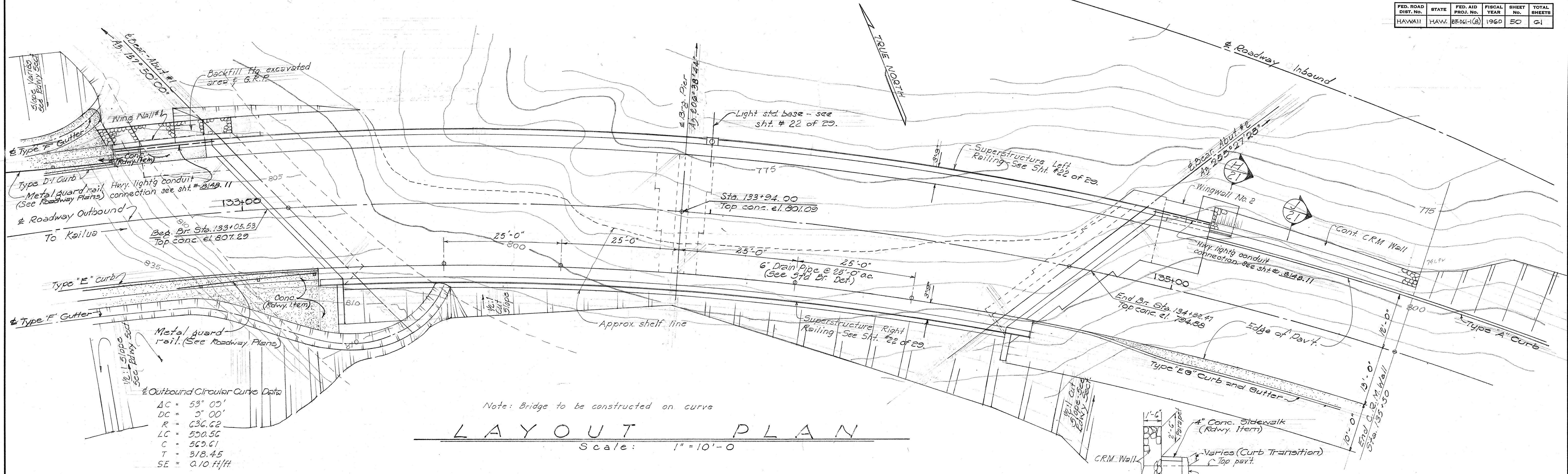




ESTIMATED QUANTITIES

Class A-1 concrete	Lump sum (776.0 cu.)	✓
Reinf. Steel	Lump sum (148,100 lb.)	✓
Struct. Excavation	1,030 cu.	✓
Cement Rubble Masonry	37 cu.	✓
A.C. Pavement (Mix No. II)	28 ft.	✓
Bit. tack coat	121 gal.	✓
Filter material	67 cu.	✓
Grouted Rubble Paving	5 cu.	✓
Roadway excavation under bridge	607.0 cu.	✓
Metal Guard Rail/Conc. Posts	100 L.F.	✓

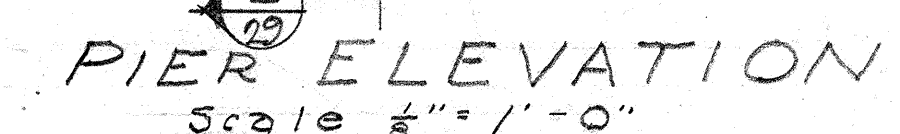
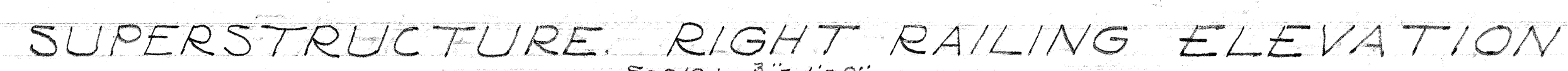
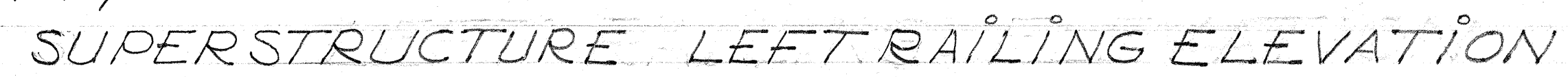
* This item included in the quantity for "Roadway Excavation" Proposal Item #13 and will not be paid for separately.

HAWAII STATE HIGHWAY DEPARTMENT
STATE OF HAWAII

BRIDGE #8A
 STA. 135+05.53-137+88.97
PALI HWY - OUTBOUND
 PROJ. NO. BF-061-1(3)
 OCTOBER 1959

The image displays seven geological cross-sections, labeled B-1 through B-7, showing soil and rock profiles. A vertical elevation scale on the left ranges from 730.00 to 810.00 feet. Each section includes a profile of the ground surface and subsurface layers, with elevations and descriptions for each layer.

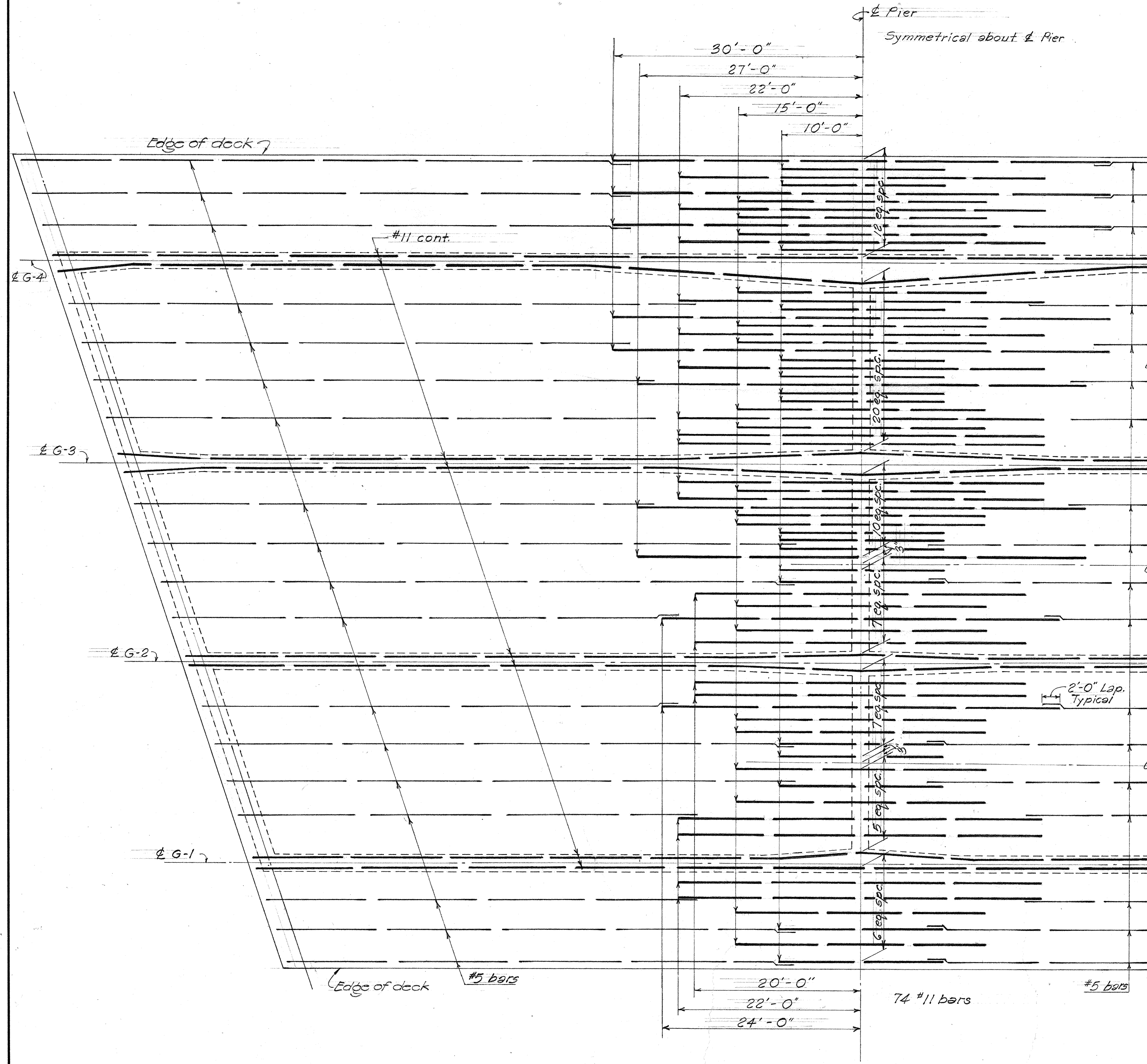
- B-1:** Shows a concrete footing at 799.55, dense basaltic rock with hard decomposed streaks (799.55-807.76), and a bottom footing at 807.76. The width is 22'-0" and 22'-0".
- B-2:** Shows asphalt & concrete pavement (804.92), gray decomposed rock (804.92-807.76), brown & gray decomposed rock with gravel (794.92), very hard brown & gray decomposed rock (789.02), very hard brown decomposed rock (784.72), and dense basalt (774.22). The width is 16'-0" and 16'-0".
- B-3:** Shows soft red clay with boulders (766.54), boulder (773.04), hard & soft decomposed rock (770.94), boulder (770.94), soft decomposed rock (766.54), very hard vesicular decomposed rock (756.54), hard decomposed rock with soft layers (754.34), decomposed rock & boulders (752.54), red clay, decomposed rock & gravel (750.74), soft & hard decomposed rock (744.74), and very hard vesicular decomposed rock (736.74). The width is 22'-0" and 22'-0".
- B-4:** Shows soft red clay with gravel & decomposed rock (738.04), boulder (738.04), hard & soft decomposed rock (738.04), boulder (738.04), soft decomposed rock (738.04), very hard vesicular decomposed rock (738.04), hard decomposed rock with soft layers (738.04), decomposed rock & boulders (738.04), red clay, decomposed rock & gravel (738.04), soft & hard decomposed rock (738.04), and very hard vesicular decomposed rock (738.04). The width is 20'-0" and 20'-0".
- B-5:** Shows soft red clay with gravel & loose boulders (798.75), soft brown clay (798.75), soft brown clay (798.75), brown decomposed rock (798.75), dense basaltic rock (798.75), and dense basaltic rock (798.75). The width is 20'-0" and 20'-0".
- B-6:** Shows soft red clay with loose boulders (784.10), soft brown clay (784.10), brown decomposed rock (784.10), dense basaltic rock (784.10), and dense basaltic rock (784.10). The width is 20'-0" and 20'-0".
- B-7:** Shows soft red clay with loose boulders (784.10), soft brown clay (784.10), brown decomposed rock (784.10), dense basaltic rock (784.10), and dense basaltic rock (784.10). The width is 20'-0" and 20'-0".



SHEET No. 22 OF 29 SHEETS

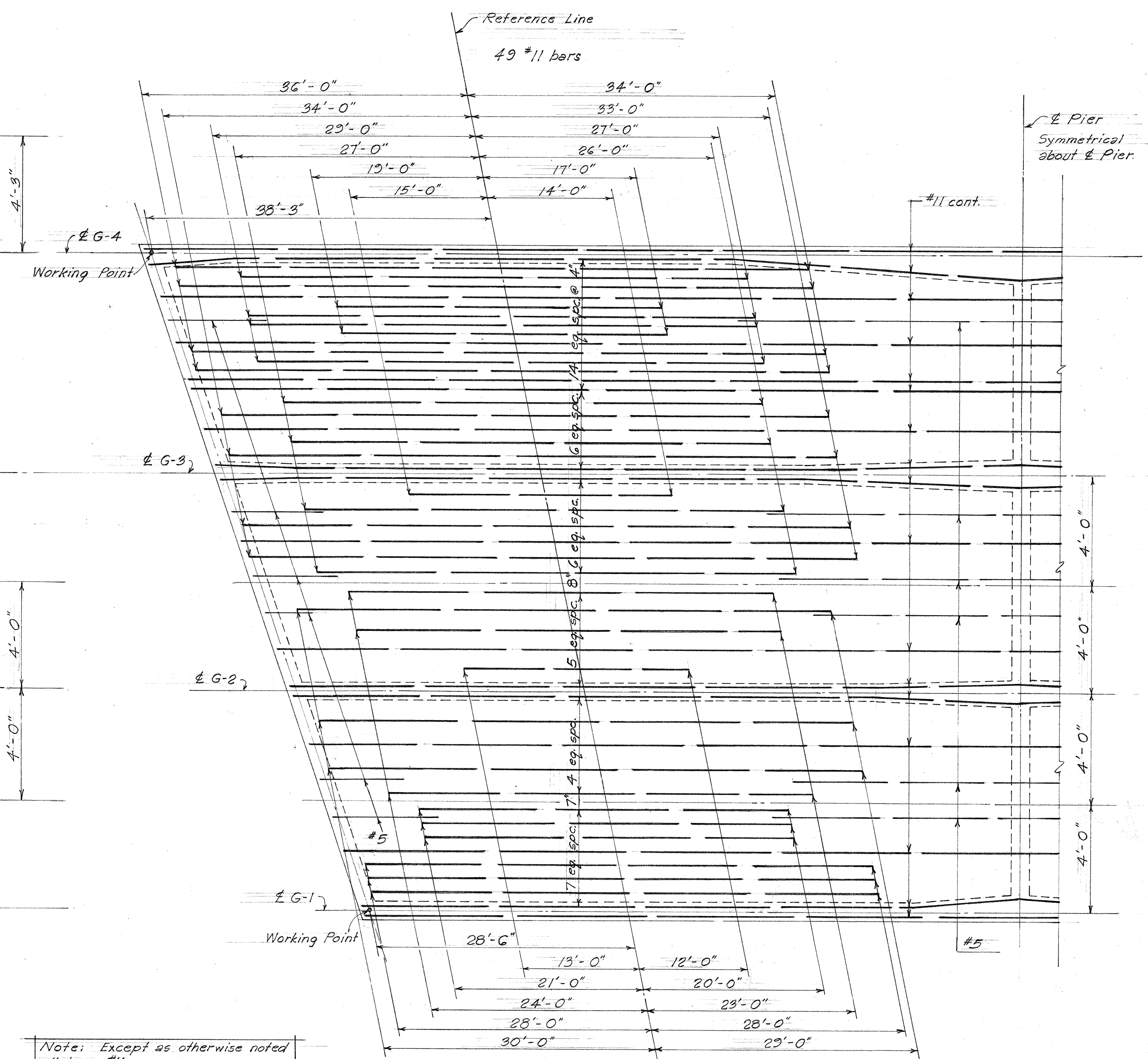
. 8 1 4 8 . 5 1

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	2F-061-1(8)	1960	52	61



PLAN - TOP SLAB TOP LAYER REINFORCING

Note: Except as otherwise noted all bars #11
Curvature of girders and reinforcing is not shown. Radius = 636.62' @ Roadway



PLAN - BOTTOM SLAB BOTTOM LAYER REINFORCING

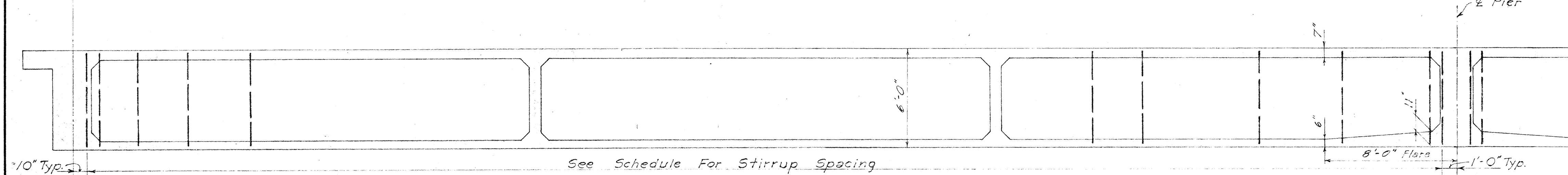
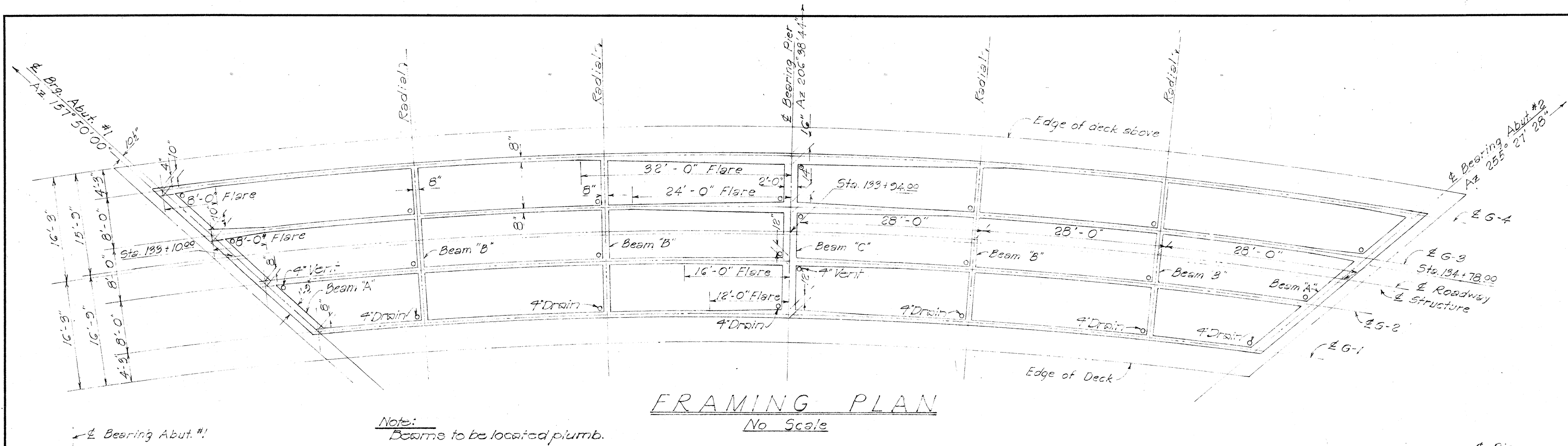
Note: For superstructure details and reinforcements, see typical detail sheet #27 of 29.

HAWAII STATE HIGHWAY DEPARTMENT
STATE OF HAWAII
BRIDGE #8A
STA. 133+05.53 - 134+36.97
PALI HWY - OUTBOUND
PROJ. NO. 2F-061-1(8)
OCTOBER 1959

SHEET No. 23 OF 29 SHEETS

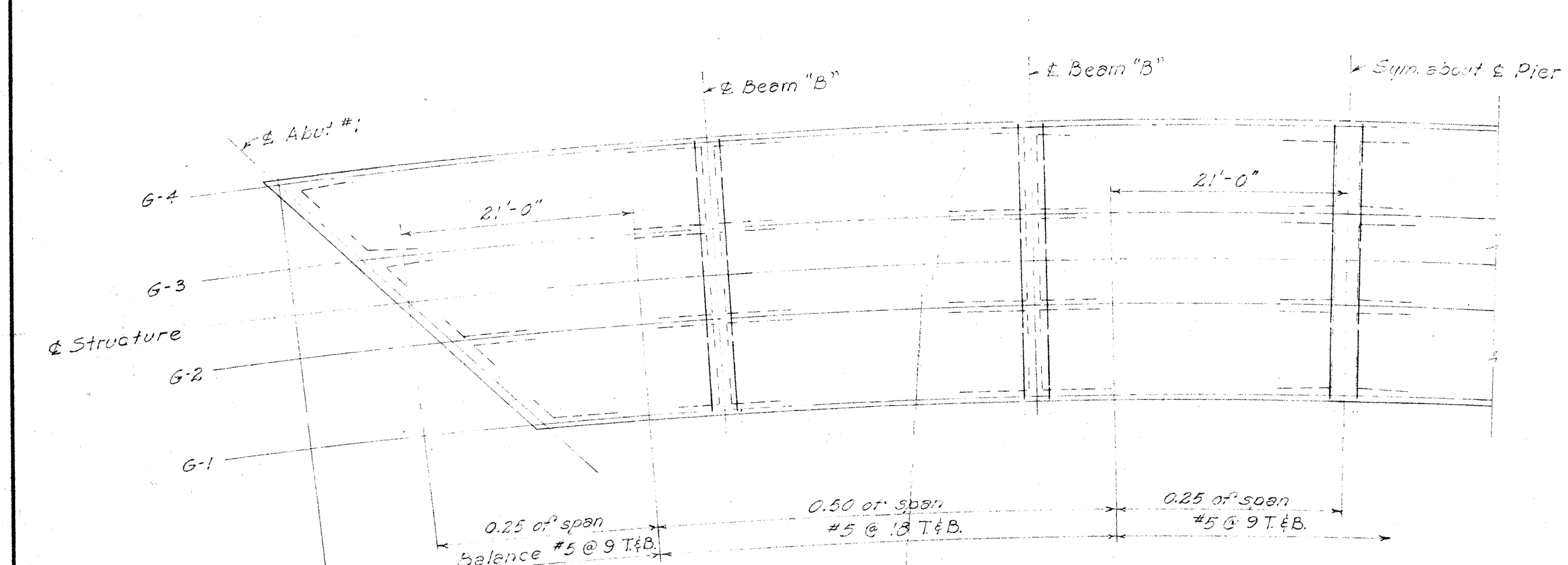
.8148.52

SURVEY PLOTTED BY	DATE
PLAN	11/2/59
TRACED BY	11/2/59
QUANTITIES CHECKED BY	11/2/59
CHECKED BY	11/2/59
ORIGINAL	
NOTE BOOK	
No.	



Girder No.	3 @ 6"	4 @ 9"	3 @ 12"	3 @ 15"	Fill @ 18" o.c.	3 @ 15"	8 @ 12"	6 @ 10"	8 @ 9"	1'-0"
G-1	10"	4 @ 9"	3 @ 12"	3 @ 15"	Fill @ 18" o.c.	3 @ 15"	8 @ 12"	6 @ 10"	8 @ 9"	1'-0"
G-2	10"	4 @ 9"	3 @ 12"	3 @ 15"	Fill @ 18" o.c.	3 @ 15"	8 @ 12"	6 @ 10"	8 @ 9"	1'-0"
G-3	10"	4 @ 9"	3 @ 12"	3 @ 15"	Fill @ 18" o.c.	3 @ 15"	8 @ 12"	6 @ 10"	8 @ 9"	1'-0"
G-4	10"	12 @ 9"	3 @ 12"	4 @ 15"	Fill @ 18" o.c.	6 @ 12"	10 @ 10"	9 @ 8"	8 @ 7"	16 @ 6"

GIRDER STIRRUP SPACING SCHEDULE



Note: Space transverse reinf. as shown (9" o.c. or 18" o.c.) at & Struct. Place on radial lines.

SURVEY PLOTTED BY: J. L. S. DATE: 10/15/59
 DESIGNED BY: J. L. S.
 TRACED BY: J. L. S.
 QUANTITIES CHECKED BY: J. L. S.
 NOTE BOOK No.

HAWAII STATE HIGHWAY DEPARTMENT
 STATE OF HAWAII
BRIDGE #8A
 STA. 133+05.53 - 134+82.47
 PALI HNY - OUTBOUND
 PROJ. NO. 2F-061-1(8)
 OCTOBER 1959

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	BF-061-1(8)	1960	26	61

PLAN - ABUTMENT NO 2

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

General Notes

For concrete seat detail, see typical detail sheet # 28 of 29.
Except as otherwise noted, all elevations indicated on this sheet are top of finish concrete elevations.

Detail (28) - Typical End Post & Curb Bracket

Exc. & pour to neat line

Ref. shelf line

Note: Curvature of girder is not shown. Level of girder for concrete seat location are taken at bearing.

ELEVATION - ABUTMENT NO 2

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

SECTION (26)

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

PART PLAN - ABUT. NO 2

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

ABUT. NO 2 - TYPE "C"

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

ABUT. NO 2 - TYPE "B"

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

ABUT. NO 2 - TYPE "A"

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

ELEVATION (26)

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

SECTION (26)

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

SHOWING TOP FOOTING REIN.

SECTION (26)

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

SHOWING BOTTOM FOOTING REIN.

SECTION (26)

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

HAWAII STATE HIGHWAY DEPARTMENT
STATE OF HAWAII
BRIDGE #8A
STA. 133+05.53-134+82.47
PALI HWY - OUTBOUND
PROJ. NO BF-061-1(8)
OCTOBER 1959

SHEET No. 26 OF 29 SHEETS

8148.55

DESIGNED BY: J. L. BROWN
DRAWN BY: J. L. BROWN
CHECKED BY: J. L. BROWN
DATE: 10/1/59
ORIGINAL PLAN NO. 1
NOTE BOOK NO. 1