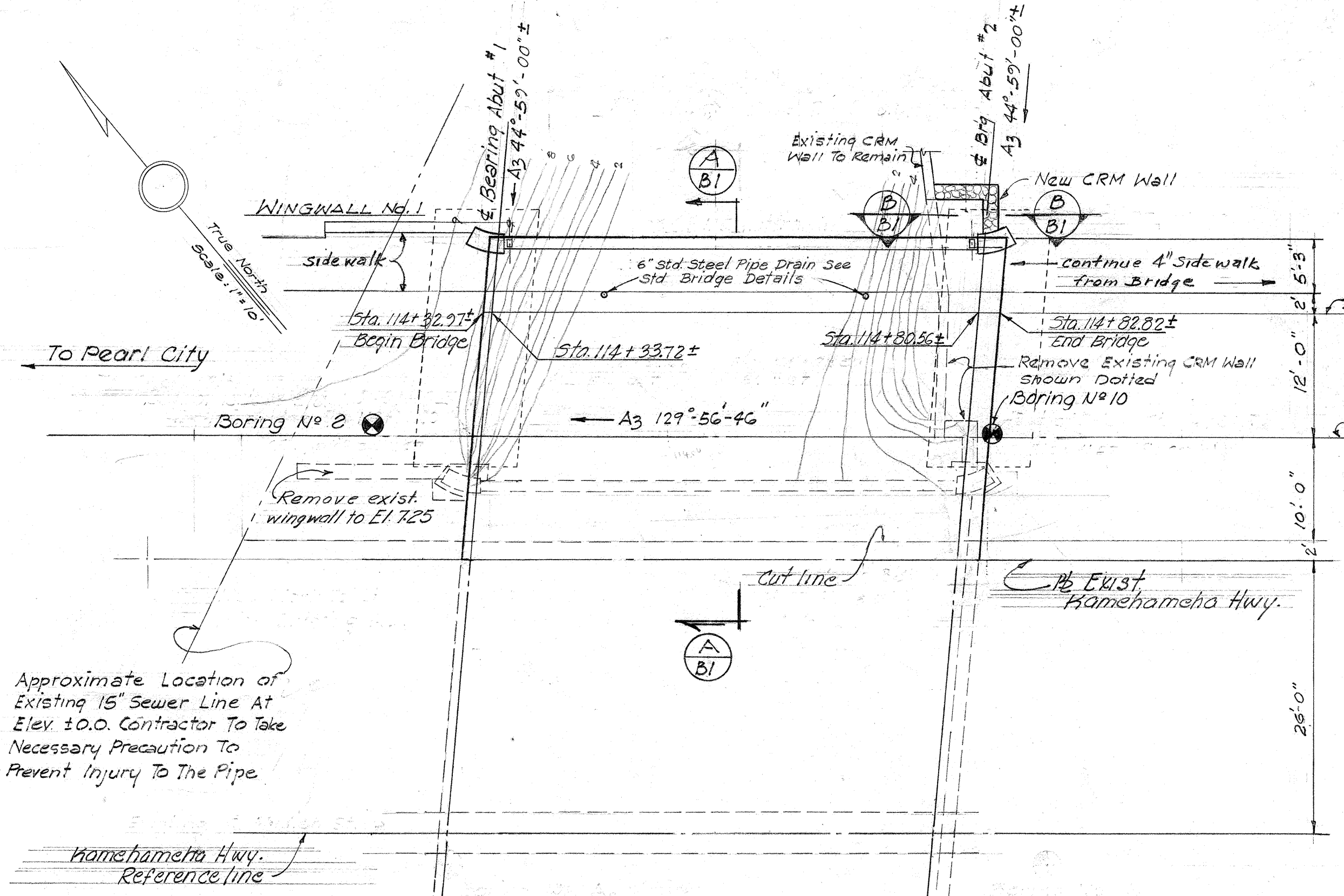
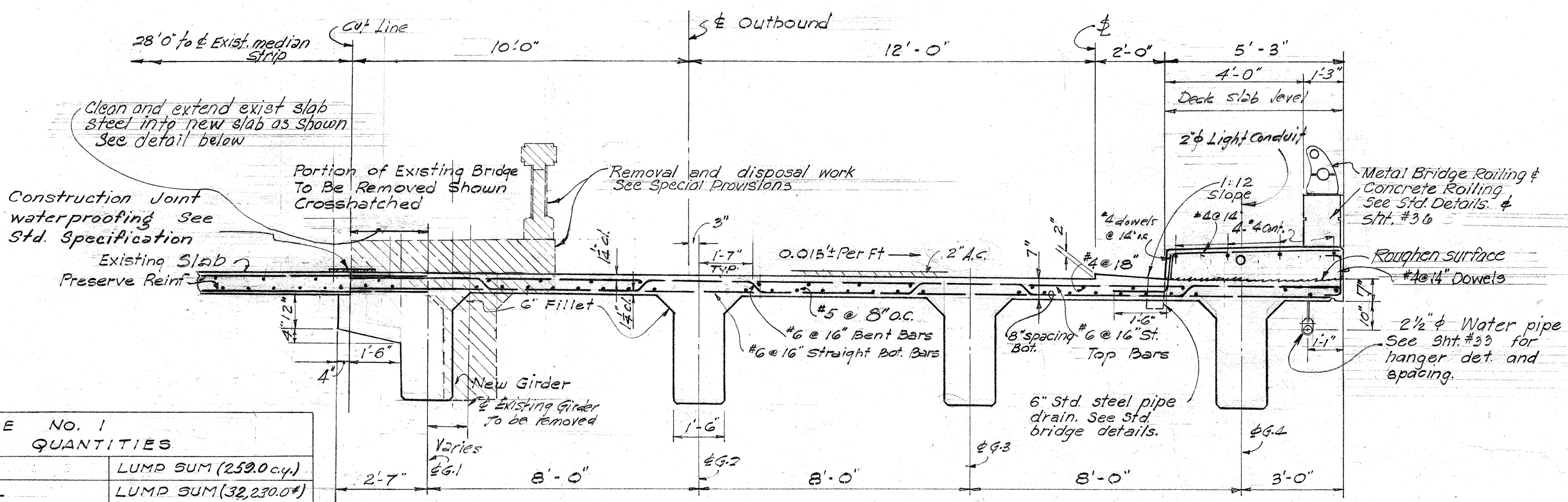


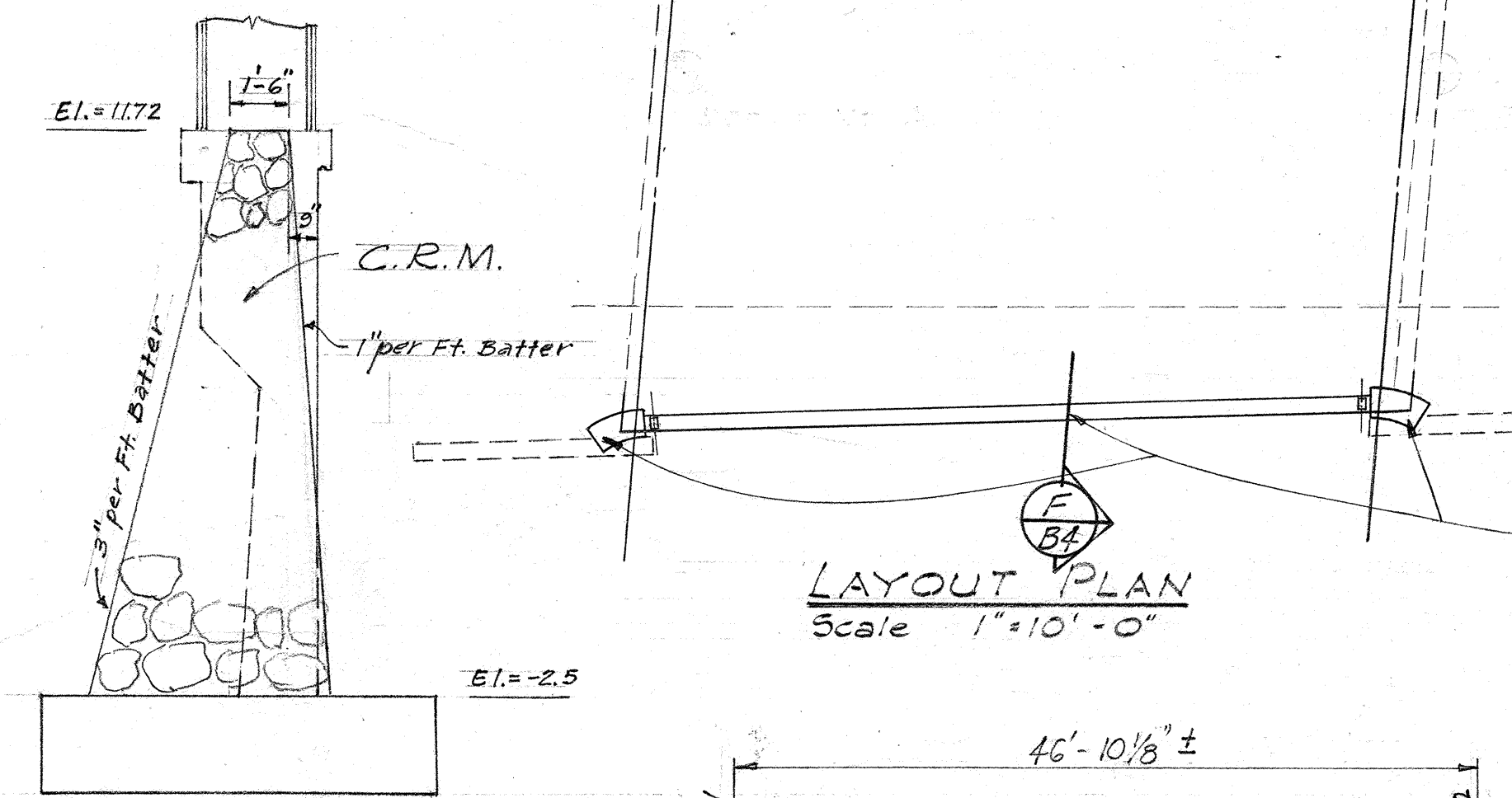


BRIDGE NO. 1 ESTIMATED QUANTITIES	
CLASS A-1 CONCRETE	LUMP SUM (2520 cu.)
REINFORCING STEEL	LUMP SUM (32,230.0)
STRUCTURAL EXCAVATION	352.0 CU. YDS.
AC. MIX No. II	14.0 TONS.
FILTER MATERIAL	14.0 CU. YDS.
TACK COAT	31 GAL.
UNTREATED TIMBER PILES	1347.0 LIN. FT.
C.R.M.	21.0 CU. YDS.
METAL BRIDGE RAILING	21.5 LIN. FT.
CONCRETE RAILING & END POST	105.5 LIN. FT.



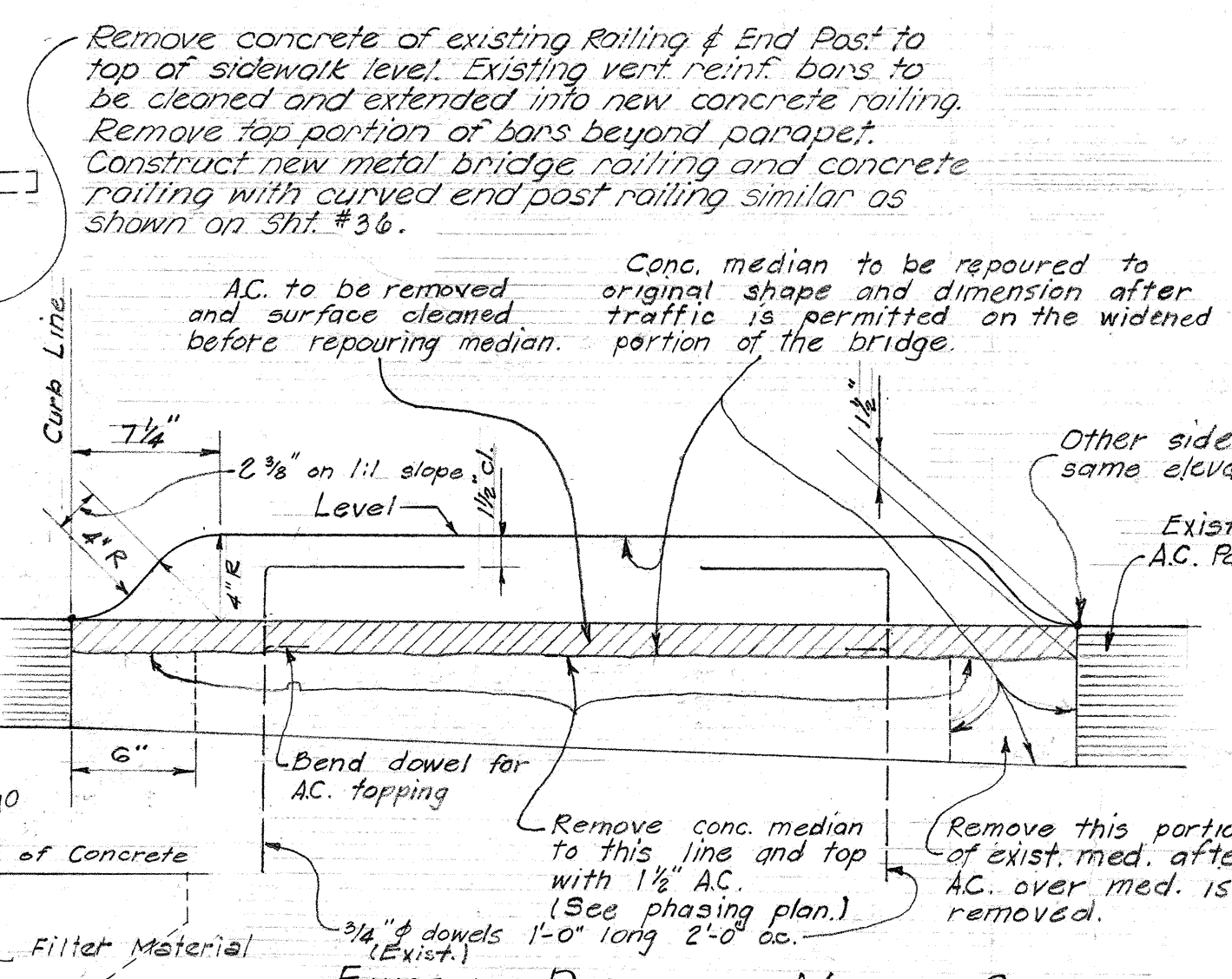
SECTION
Scale: 1/2" = 1'-0"

Girder spacings, deck & sidewalk widths are normal to existing median strip.

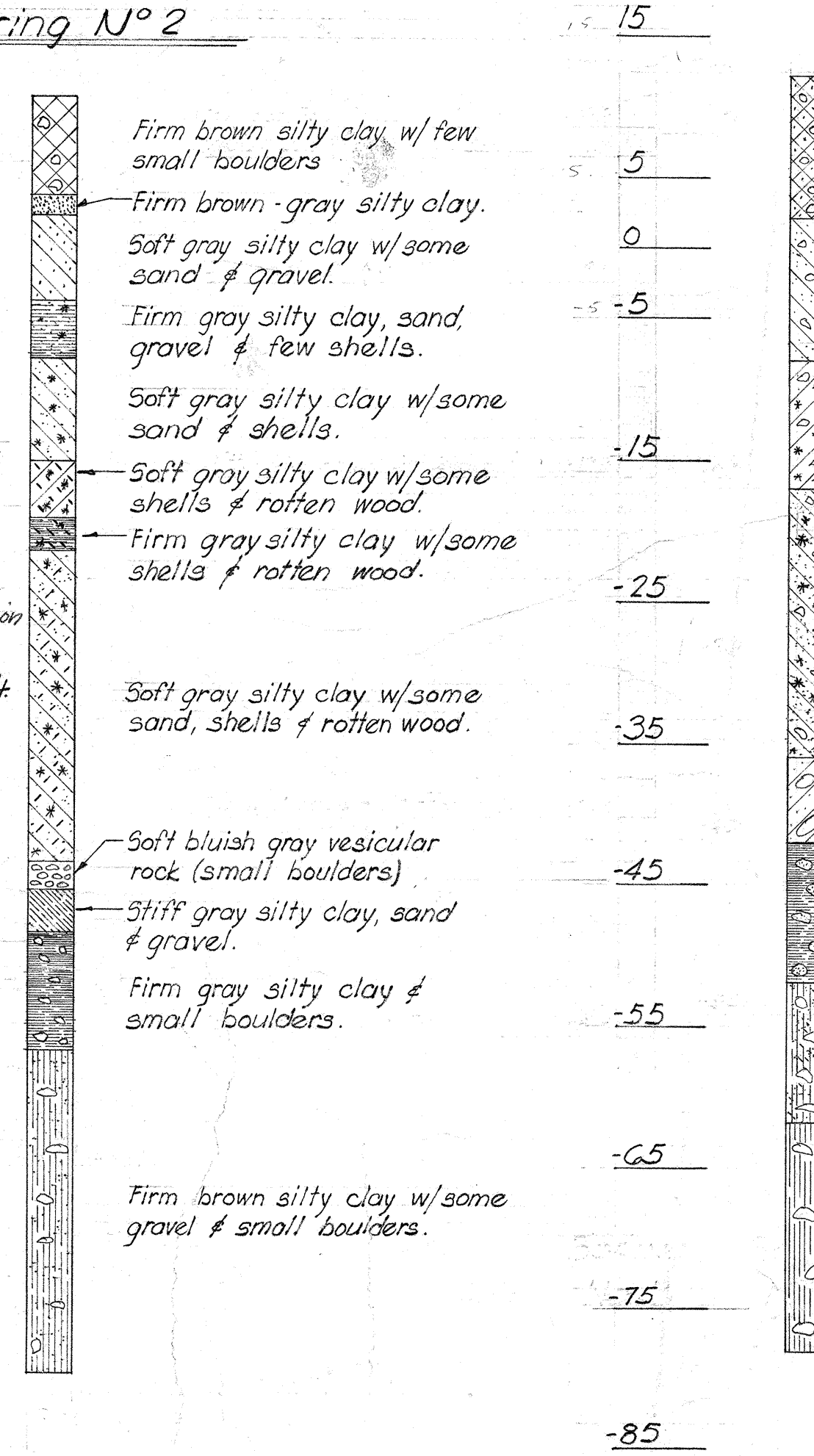


SECTION
Scale: 1/4" = 1'-0"

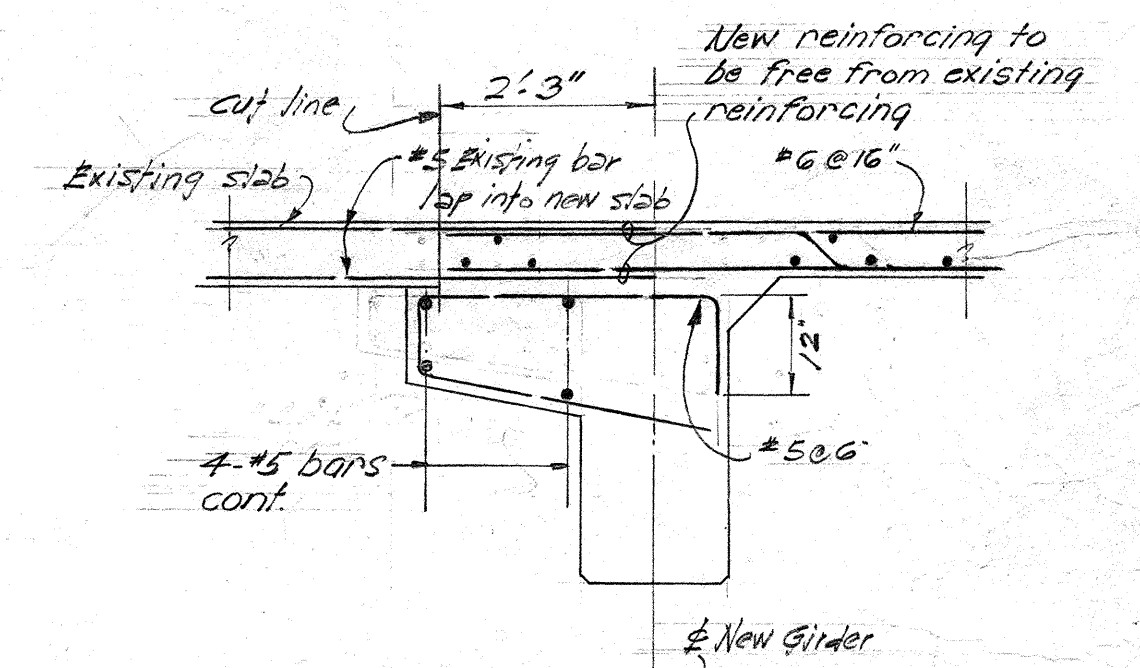
NOTE: In General except as otherwise noted construction of bridge widening portion shall follow exist lines of abutment and superstructure



EXISTING DETAIL OF MEDIAN STRIP
Scale: 1/2" = 1'-0"



LOG of BORINGS
Scale: 1" = 10'



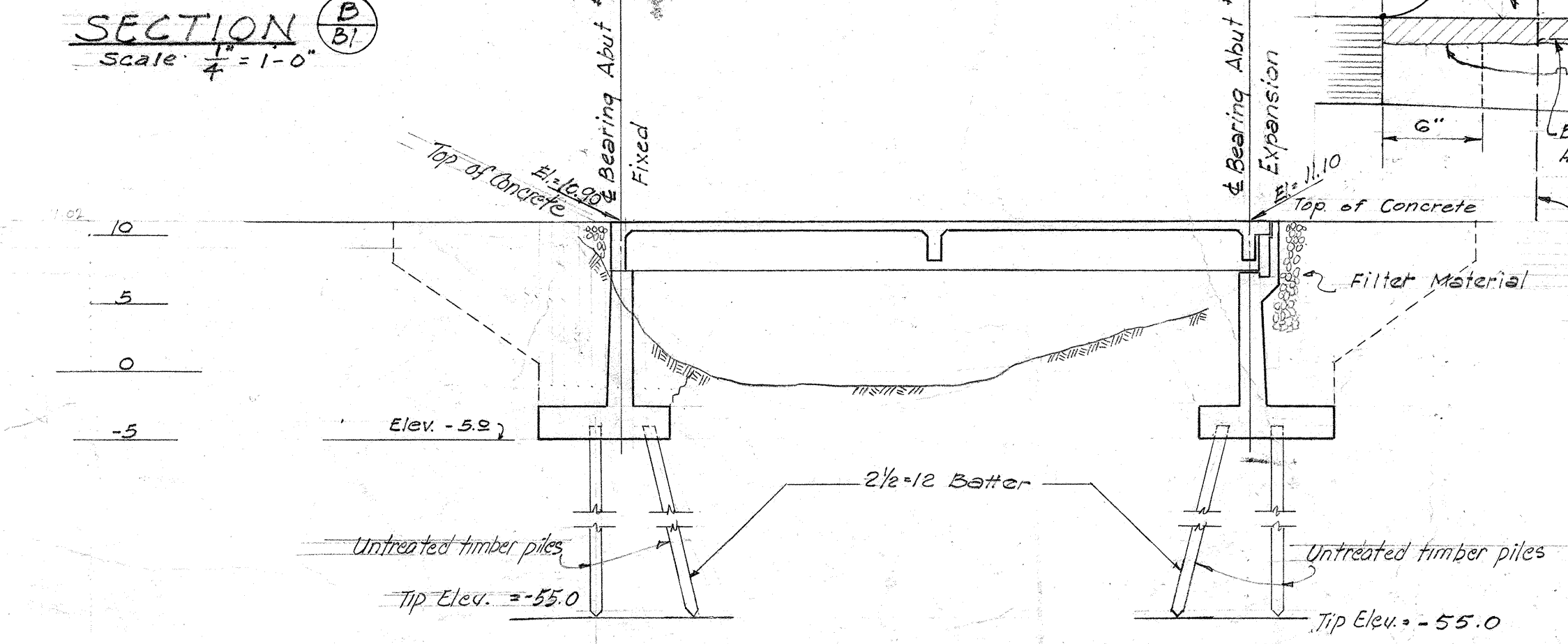
CONTINUOUS BRIDGE AT
CUT SLAB SECTION
Scale: 1/2" = 1'-0"

GENERAL NOTES

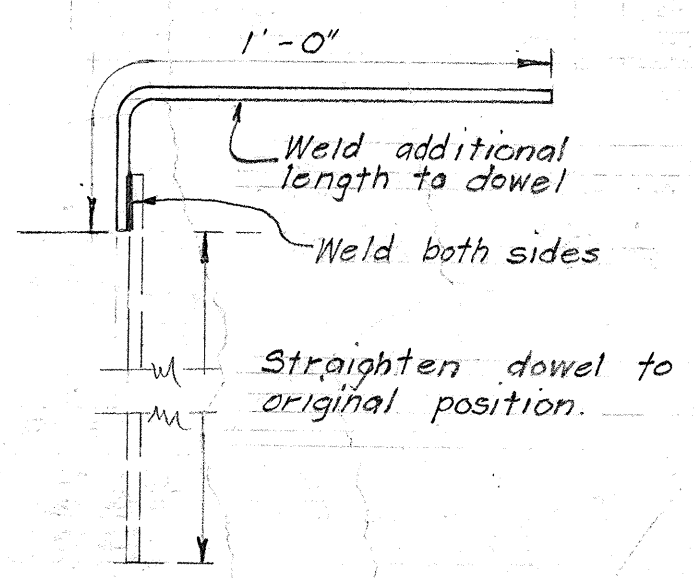
Pile Footing - A layer of crushed rock or gravel may be necessary to facilitate placing of reinforcing and pouring of concrete. This work shall be incidental to concrete and will not be paid for separately.

For additional general notes see sheet #51.

For removal of portion of existing bridge - see Special Provisions.



LONGITUDINAL SECTION ALONG & OUTBOUND
Scale: 1" = 10'-0"

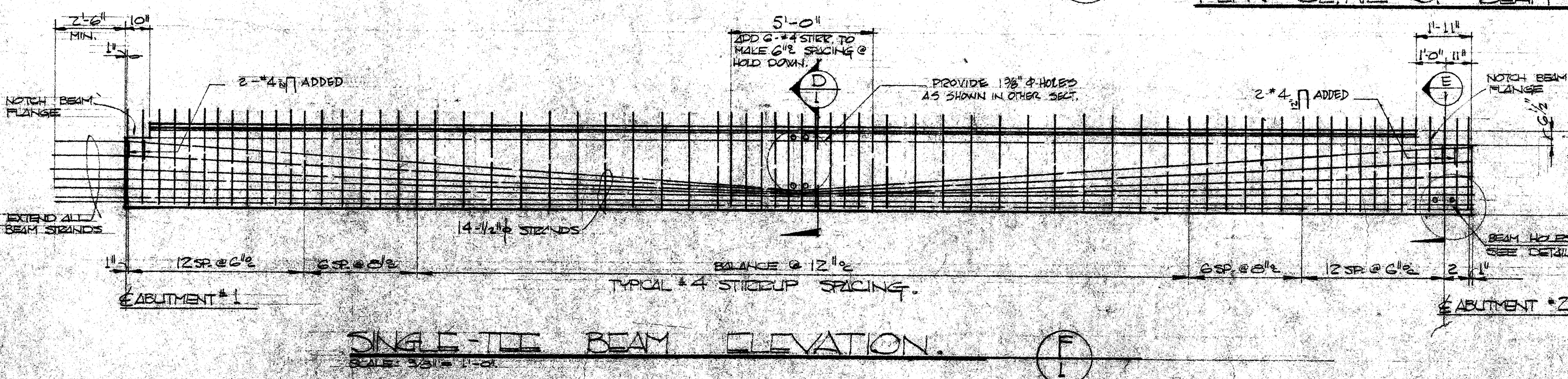
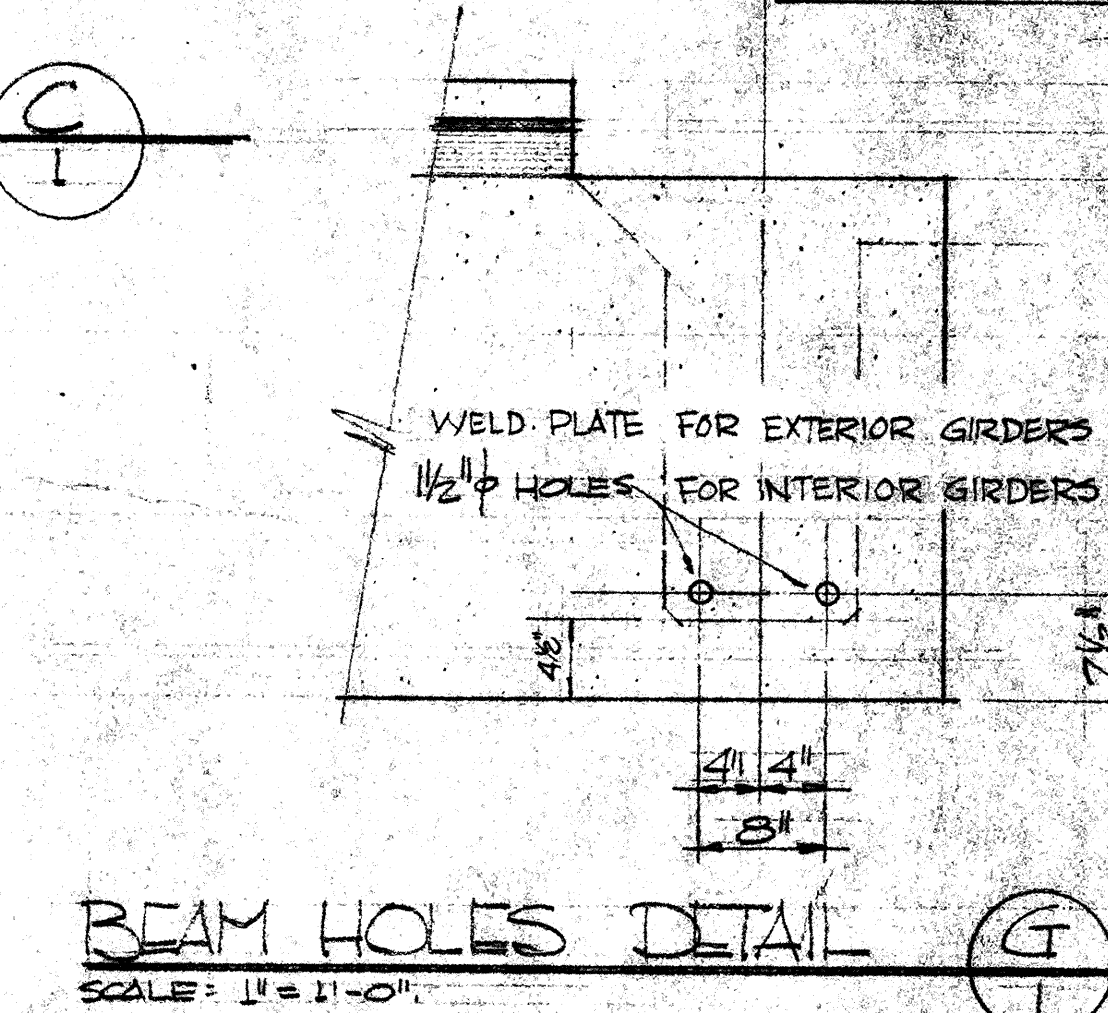
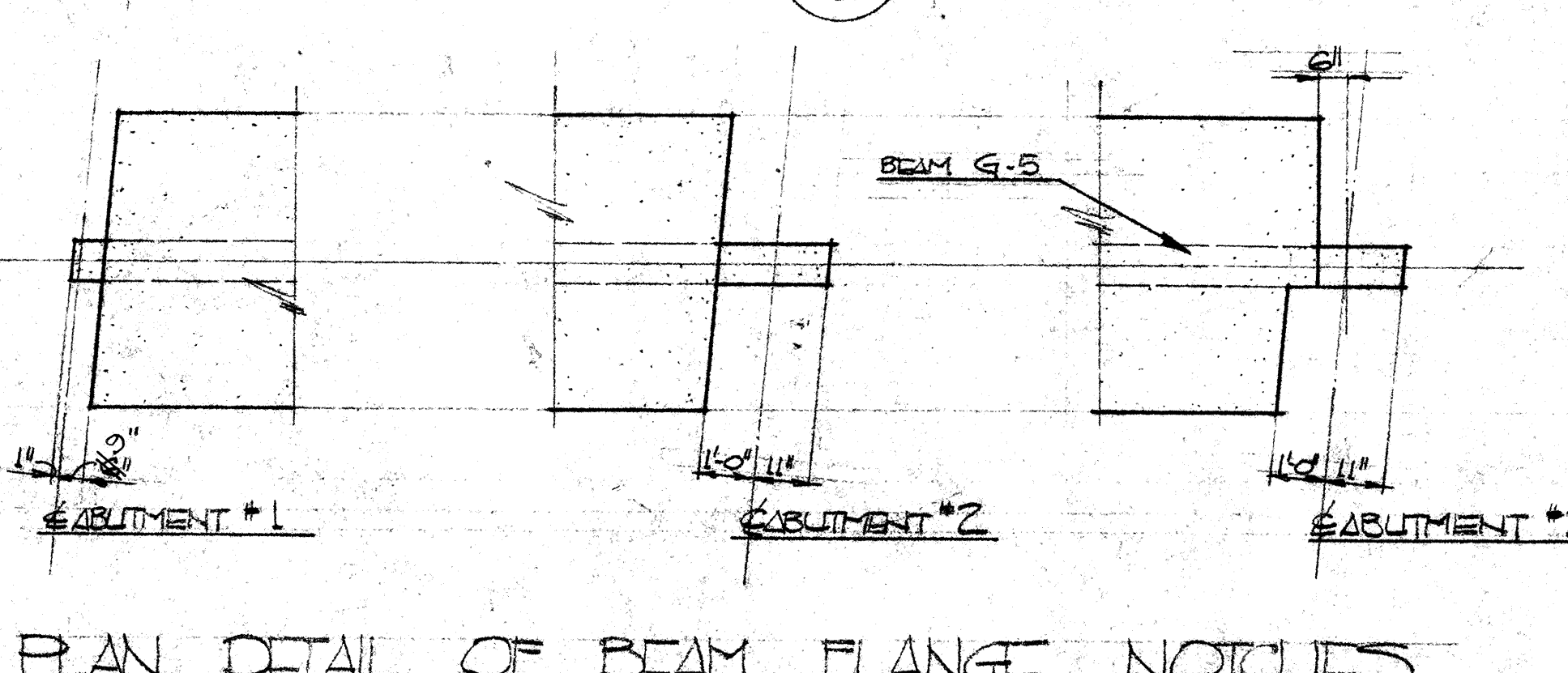
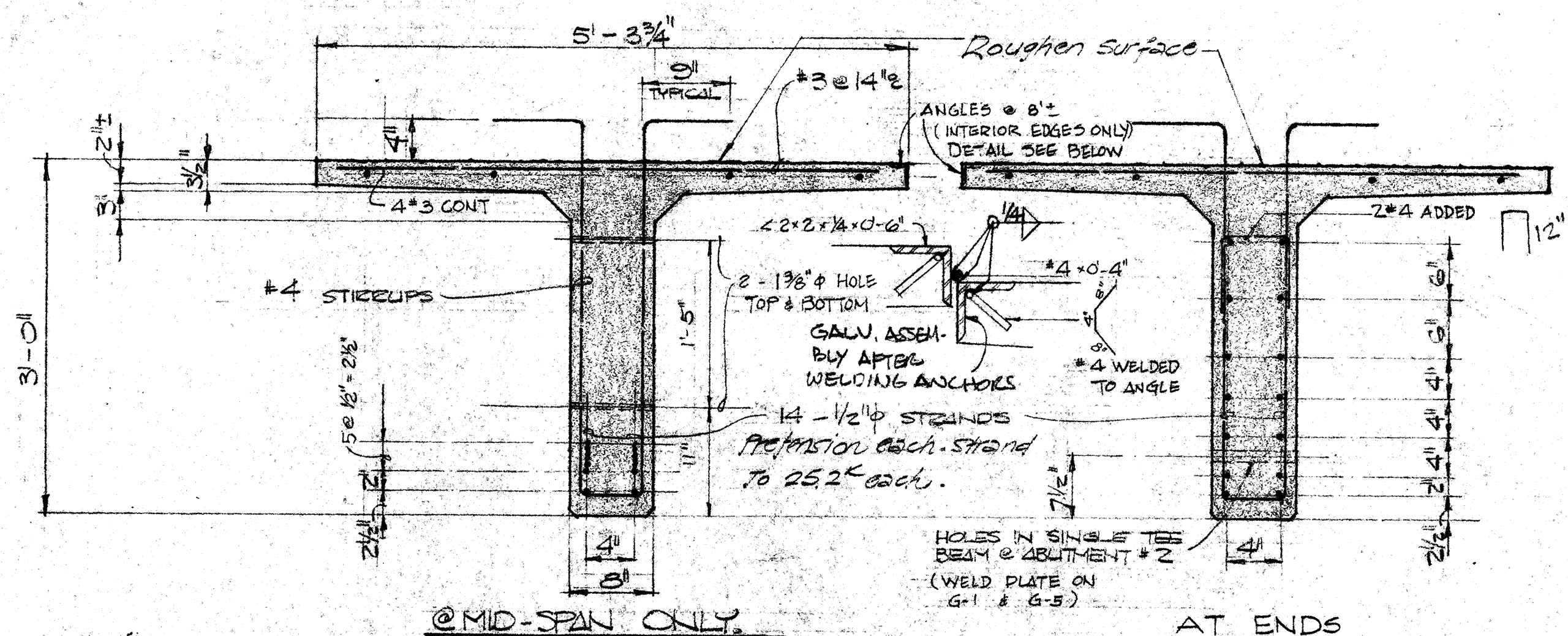
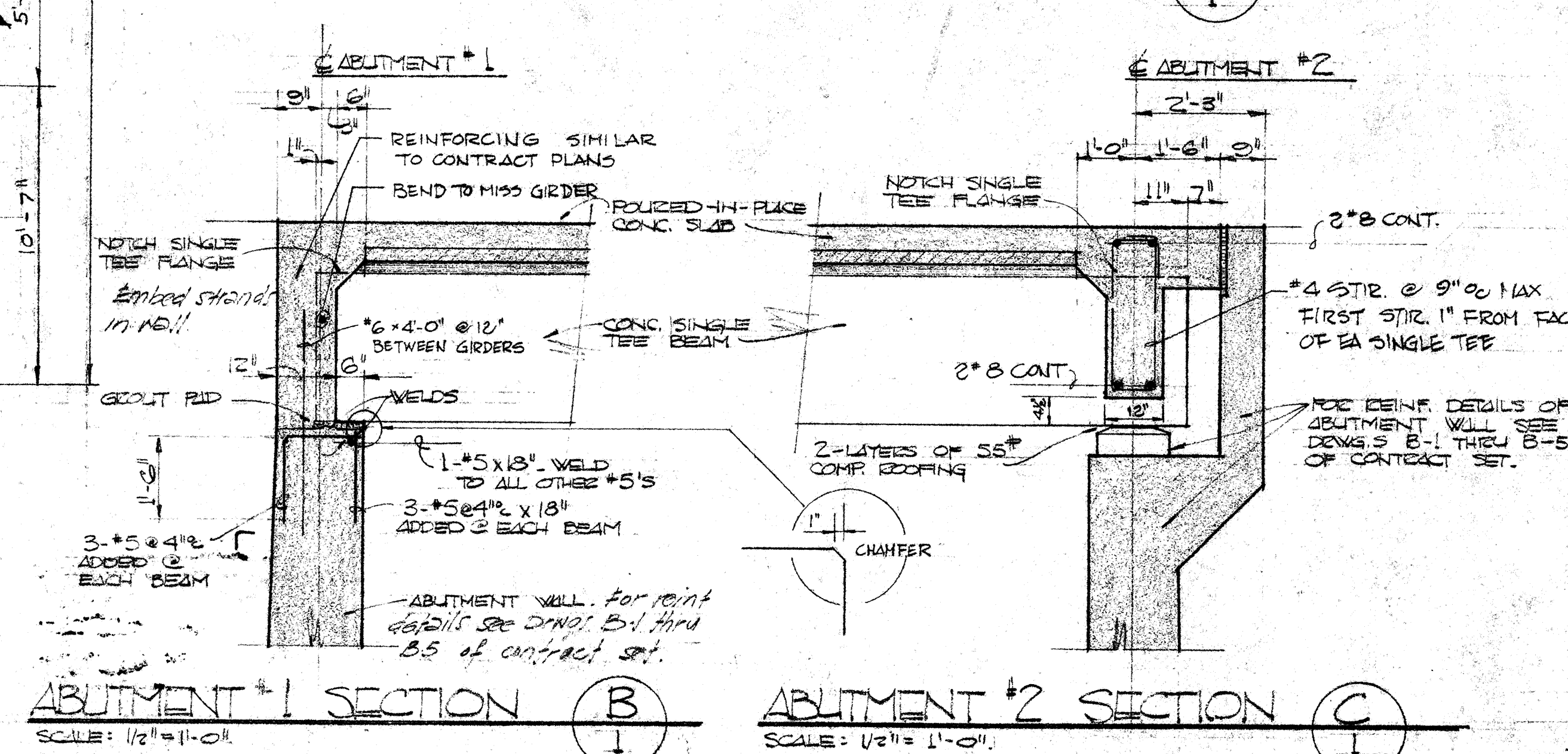
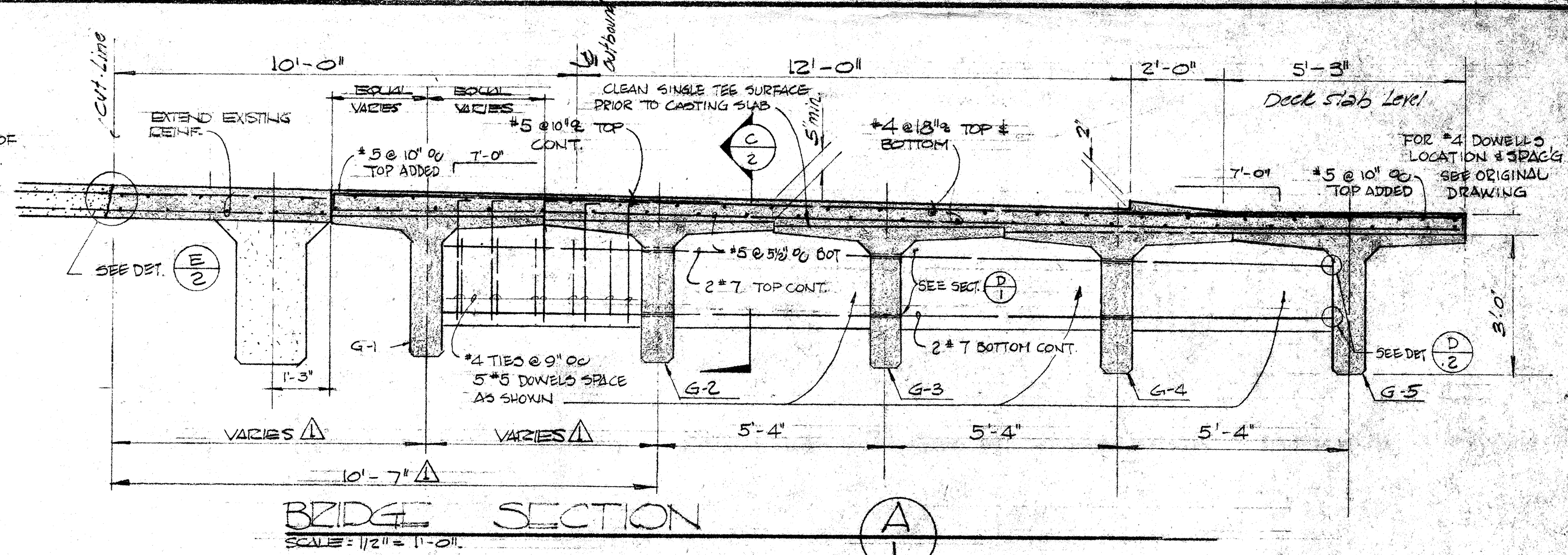
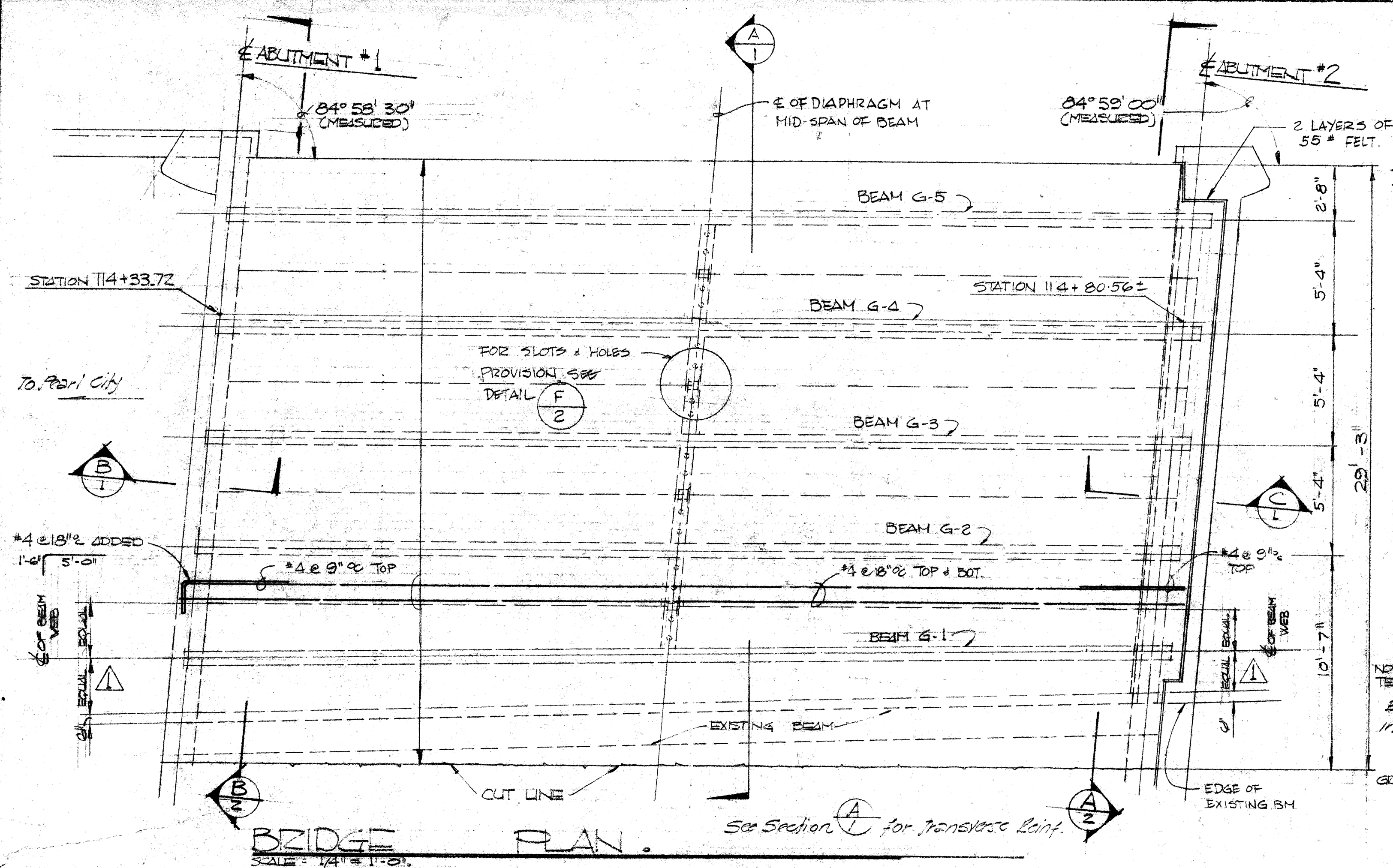


⊗ Indicates boring shown on this sheet.

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

AREA STREAM BRIDGE
LAYOUT PLAN

Outbound Sta. 114+32.21 to Sta. 114+82.82
KAMEHAMEHA HWY. Proj. No. F-090-14
JUNE 1963



CONCRETE STRENGTH:

1. CAST IN PLACE:
CLASS A-1

2. Precast & Prestressed:
Concrete strength = 6000 psi
at 28 days.
Concrete strength at time of release = 4500 psi

NOTE: NO SHORING REQ'D UNDER SINGLE TIE DURING CASTING OF 5" SLAB

REVISED: 23 NOV 1964 B.H.
• REVISED ACCORDING TO STATE OF HAWAII BRIDGE DEPT. COMMENTS

REVISED: 10 NOV 1964 F. SMITH
• REVISED LOCATION OF BEAM #5-1

ALFRED A. YEE & ASSOCIATES, INC.
ALA MOANA BUILDING STRUCTURAL ENGINEERS HONOLULU, HAWAII

DRAWING TITLE
BRIDGE PLAN & DETAILS

PROJECT & CLIENT
ALA STREAM BRIDGE
E. G. BLACK, LTD.

DRAWN BY
F. SMITH & B.C.

CHECKED BY
F.L.

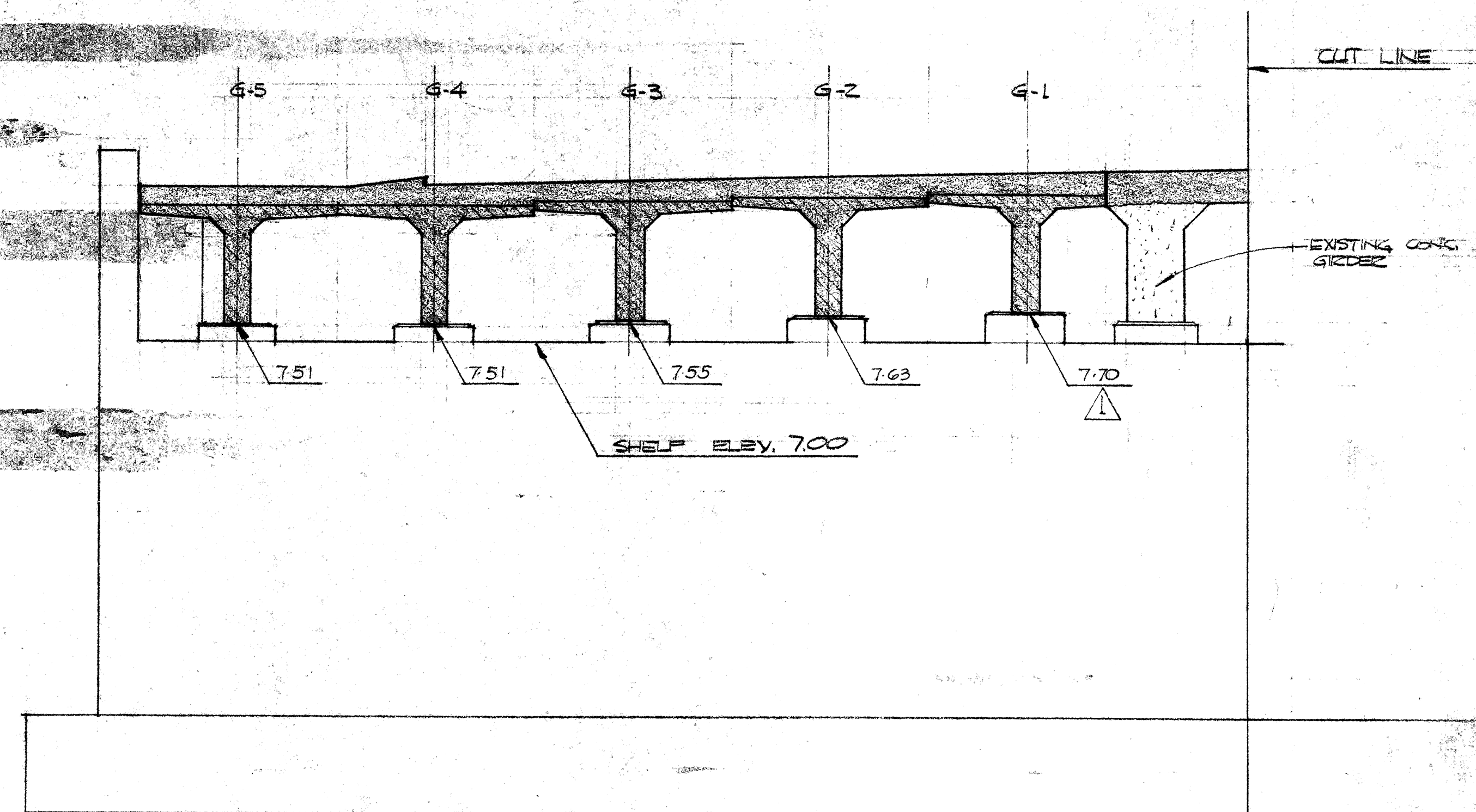
APPROVED BY

DATE
26 OCT 1964

SHEET NUMBER
1

OF 2 SHEETS

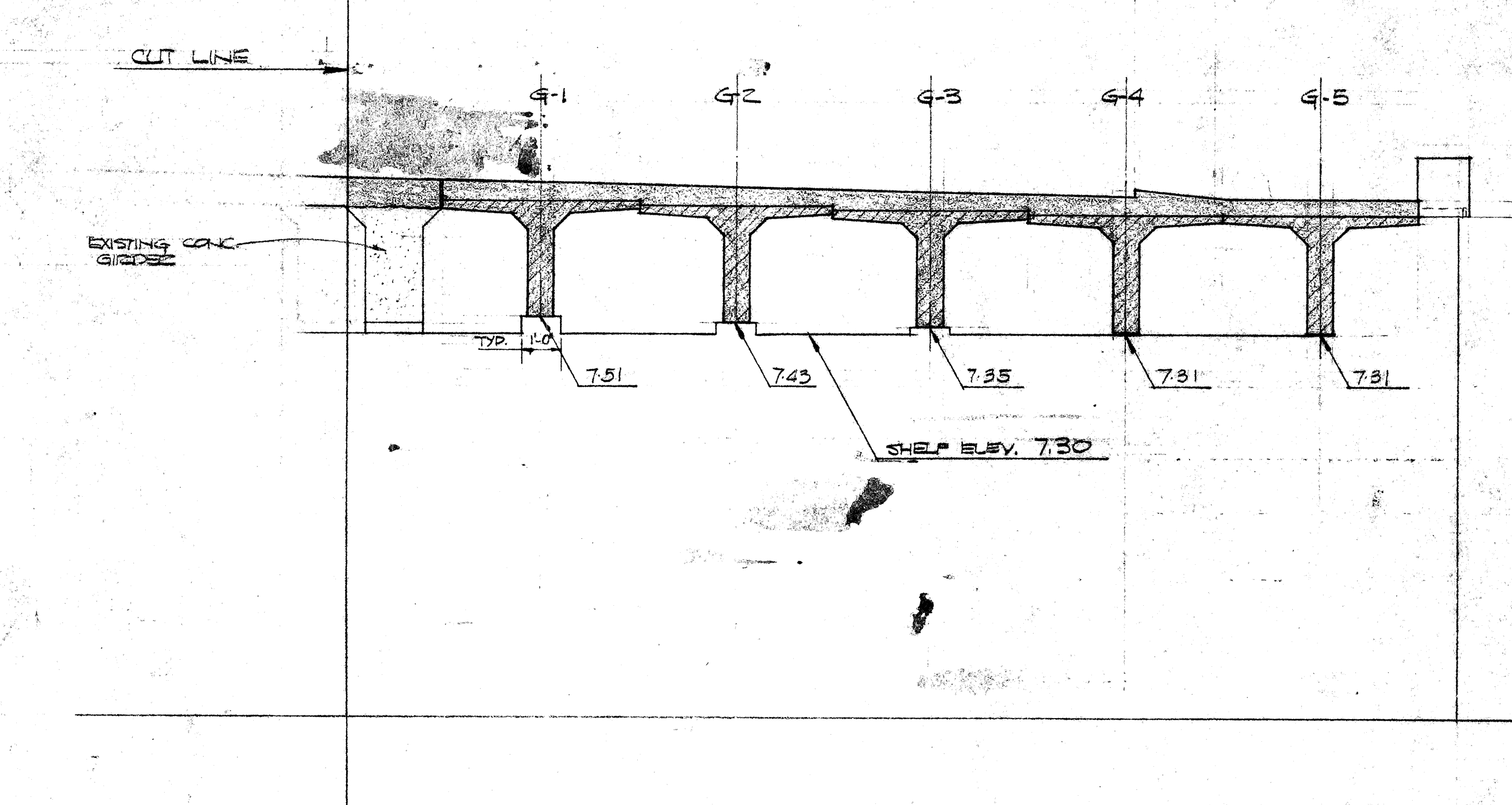
JOB NUMBER
64-114-1



ABUTMENT #2 SHELF DETAIL

SEE SHEET # B-4 FOR WALL DETAILS
SCALE: 3/8" = 1'-0"

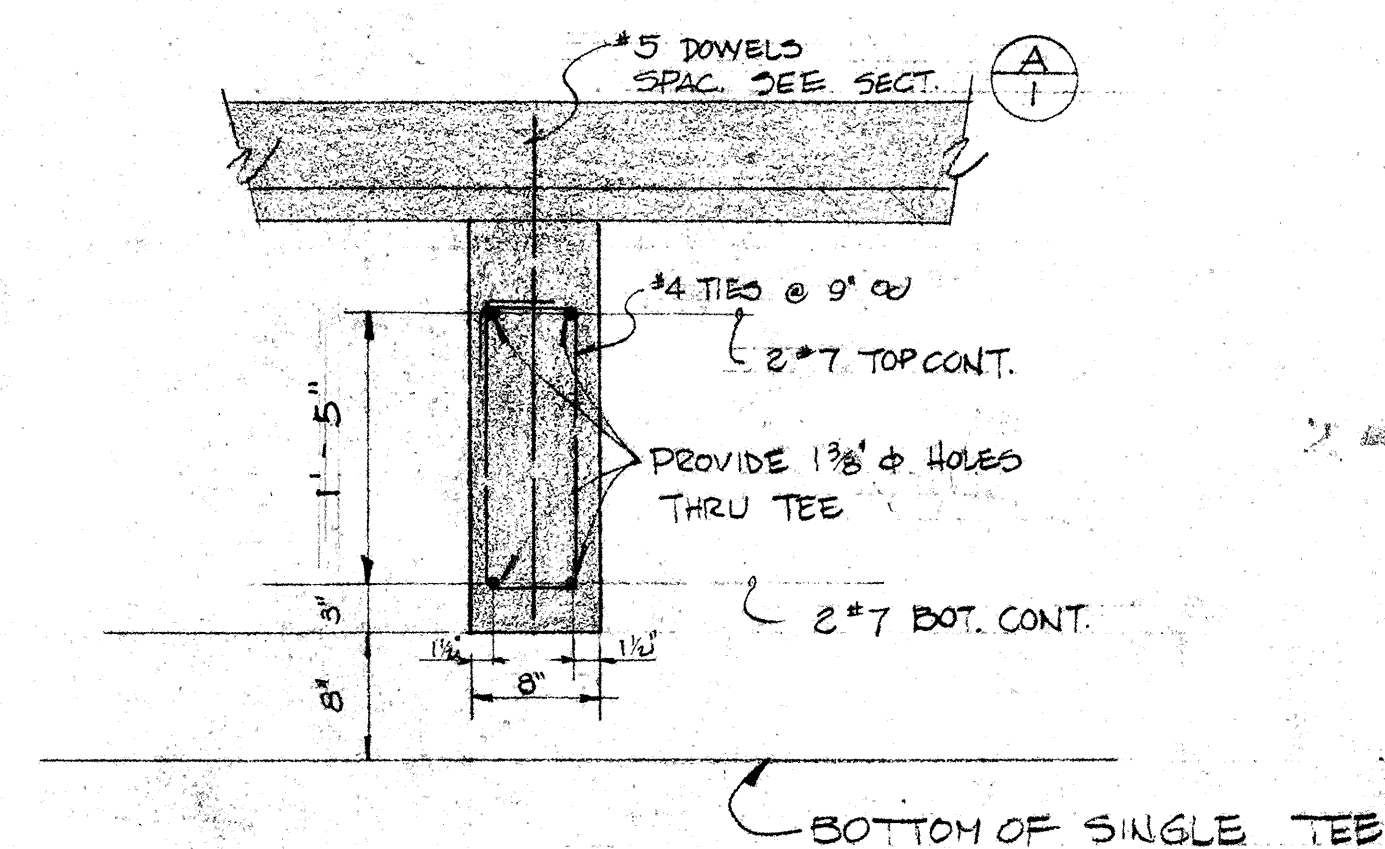
(A)
2



ABUTMENT #1 SHELF DETAIL

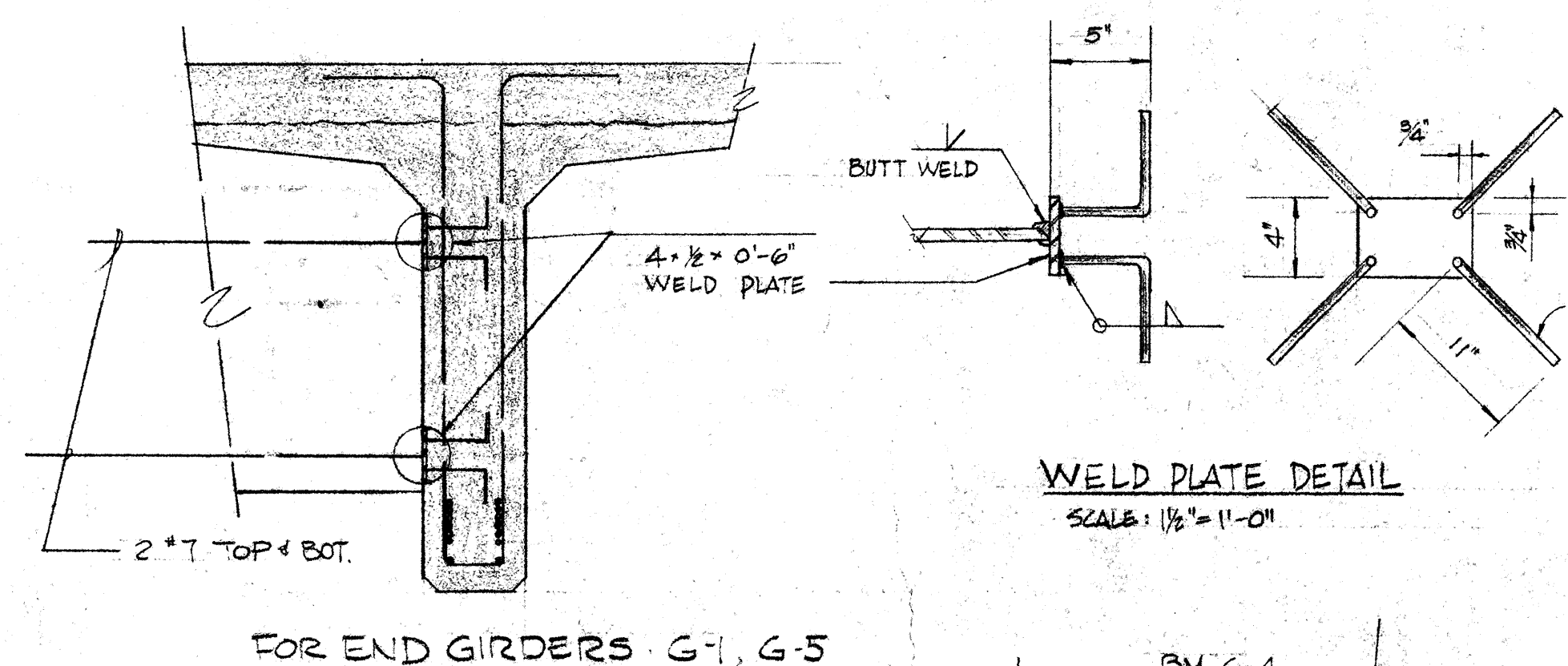
SEE SHEET # B-3 FOR WALL DETAILS.
SCALE: 3/8" = 1'-0"

(B)
2



SECTION C
SCALE: 1" = 1'-0"

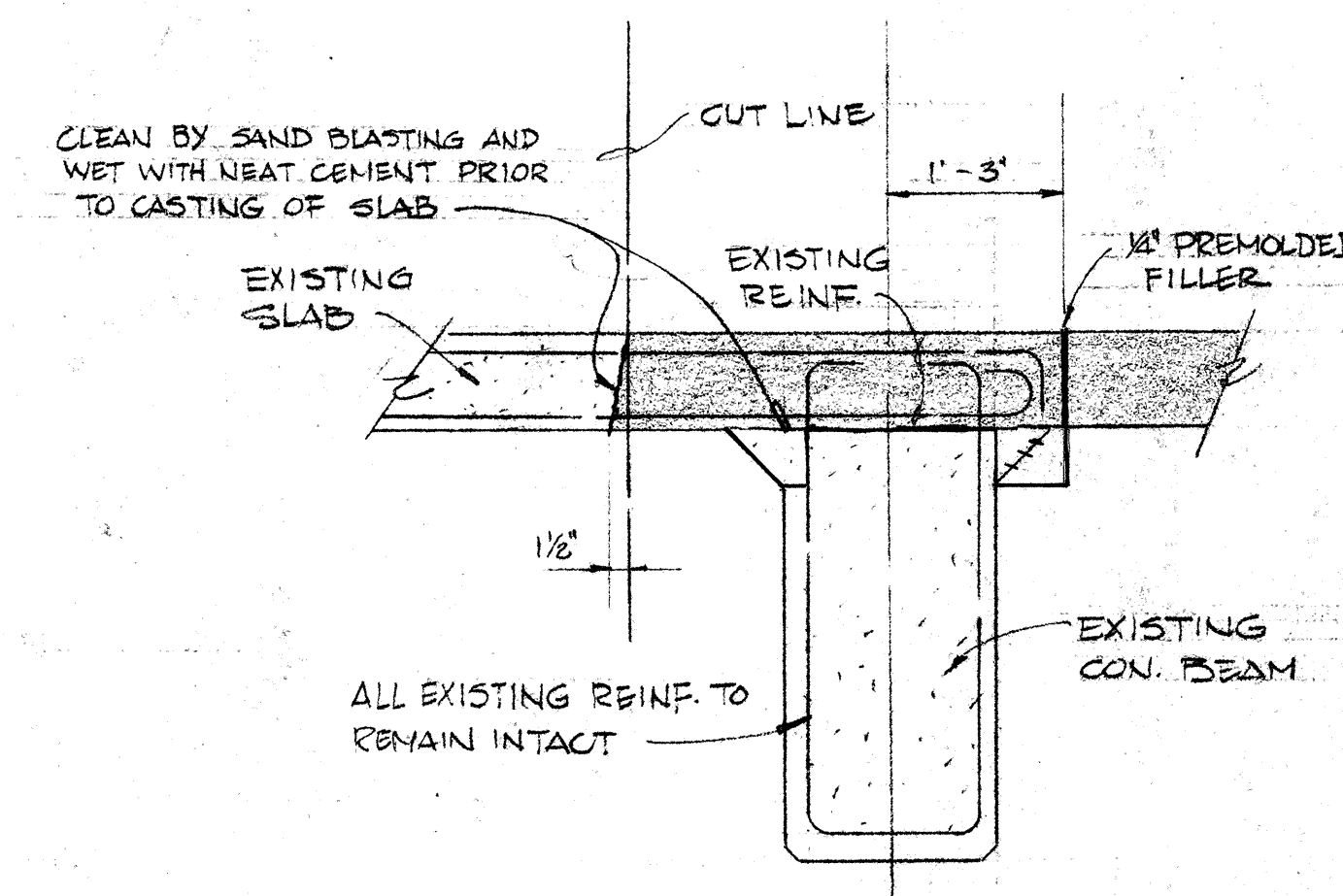
(C)
2



FOR END GIRDERS G-1, G-5

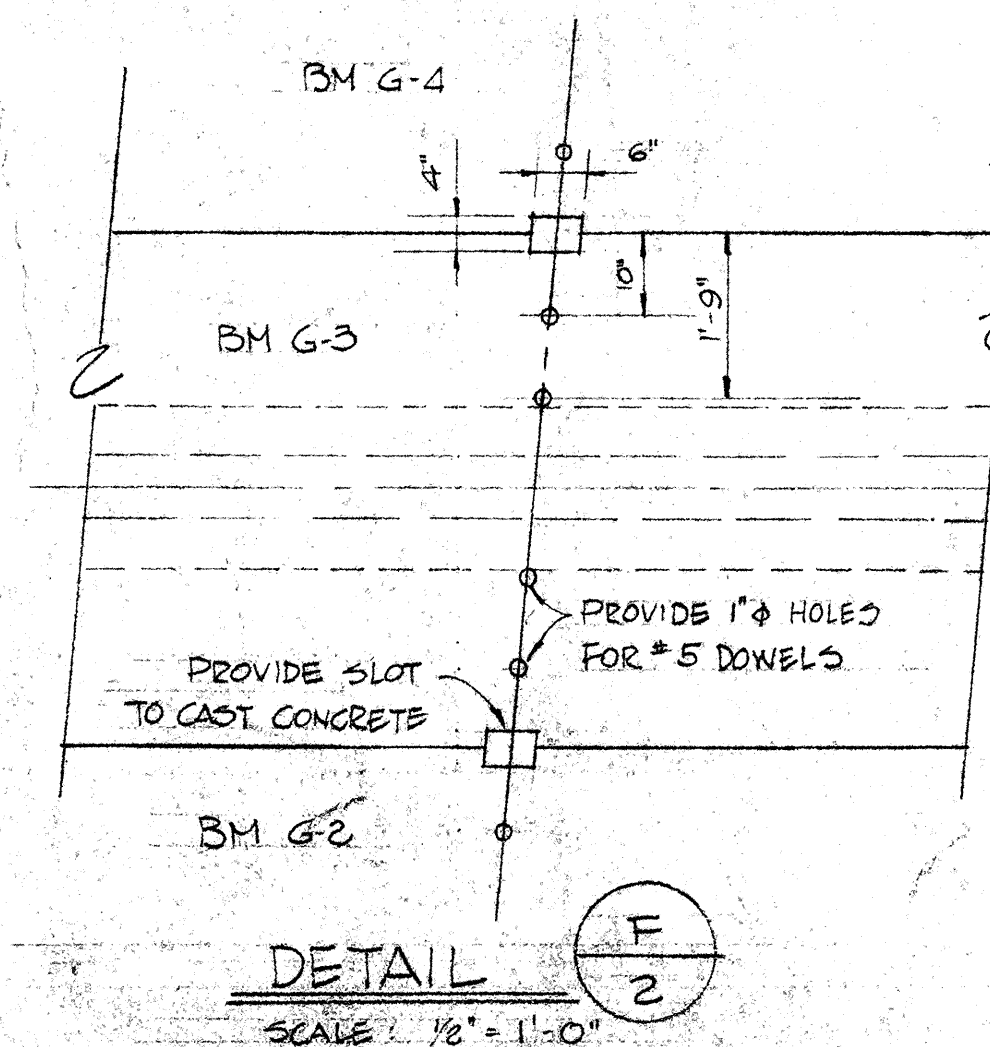
DETAIL D
SCALE: 1" = 1'-0"

(D)
2



CUT-LINE DETAIL E
SCALE: 3/4" = 1'-0"

(E)
2



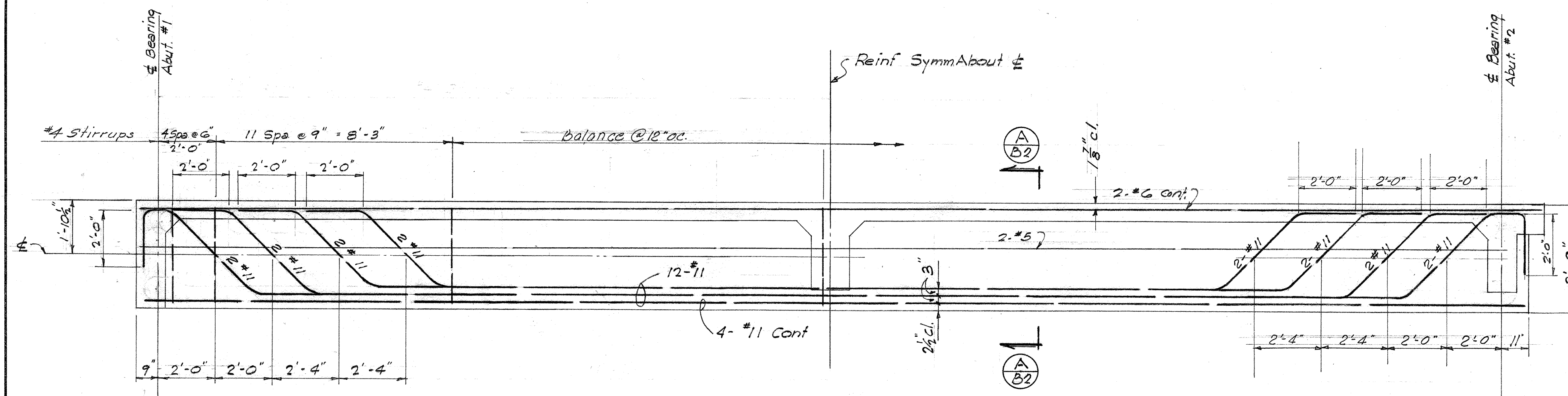
DETAIL F
SCALE: 1/2" = 1'-0"

(F)
2

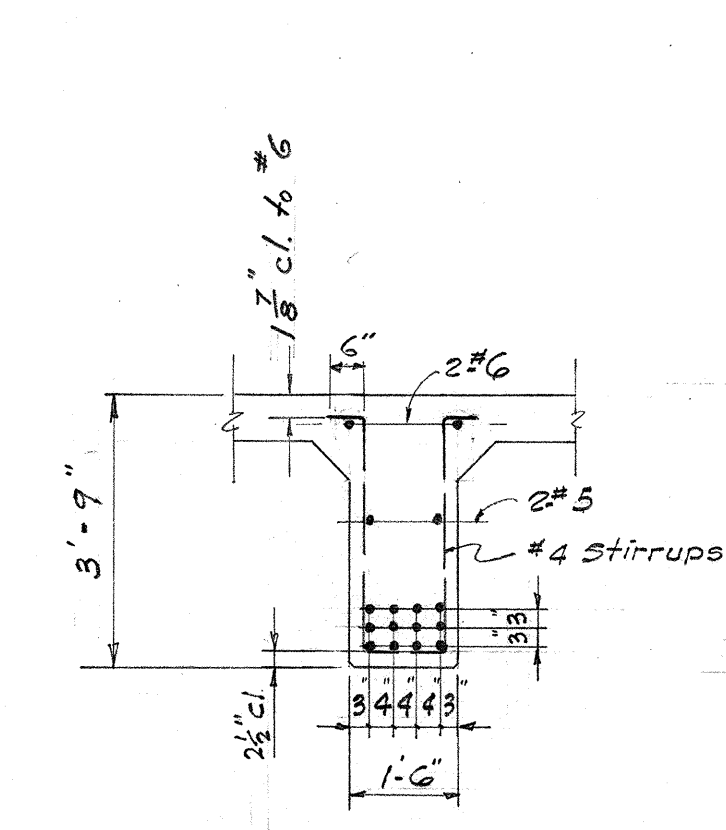
REVISED: 19 NOV. 1964
• CHANGED BEAM #5-1 ELEVATION.

ALFRED A. YEE & ASSOCIATES, INC. STRUCTURAL ENGINEERS ALA MOANA BUILDING HONOLULU, HAWAII	
DRAWING TITLE ABUTMENT ELEVATIONS.	
PROJECT & CLIENT AIEA STEAM BRIDGE for E. E. BLACK, LTD.	
DRAWN BY R. SUTTER	SHEET NUMBER 2
CHECKED BY LL	OF 2 SHEETS
APPROVED BY	
DATE 26 OCT. 1964	JOB NUMBER GA-114-1

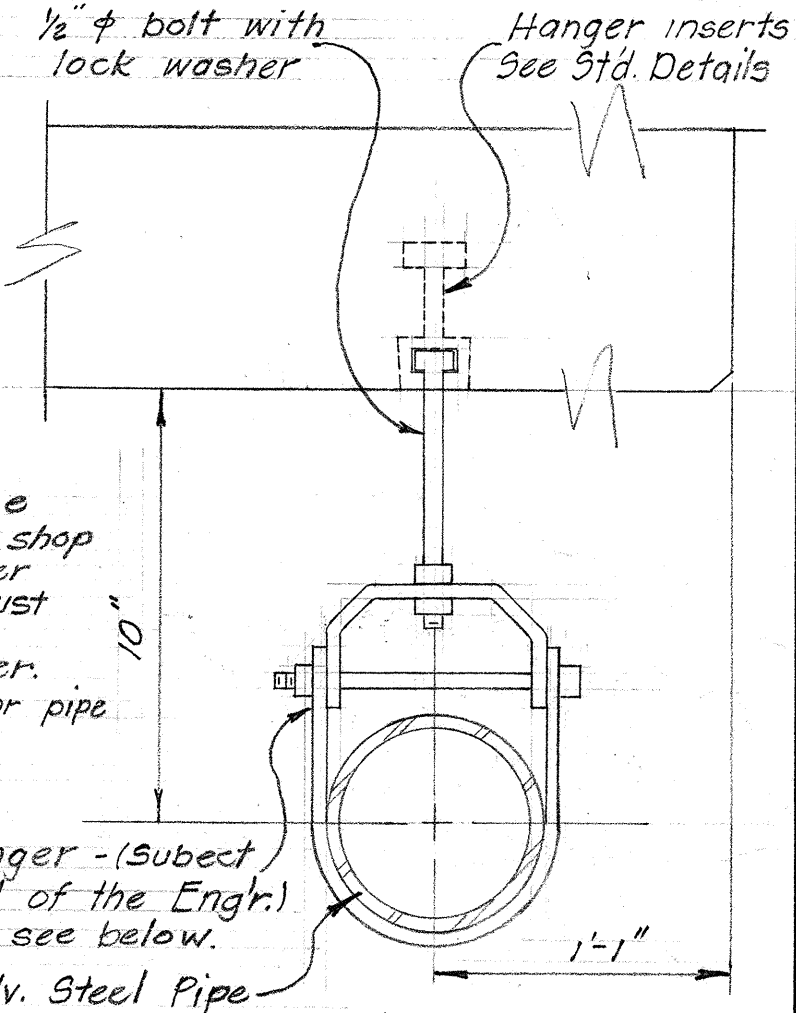
FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW	F-090-10	1964	39	177



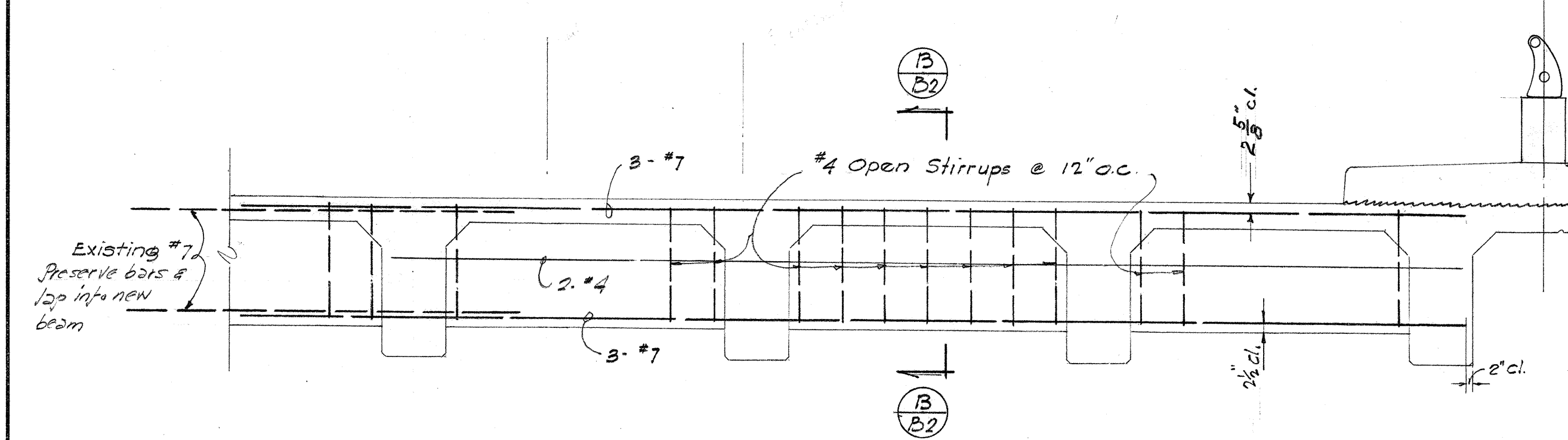
TYPICAL GIRDER G-1 THRU G-4 REINFORCEMENT
Scale $\frac{3}{8}$ " = 1'-0"



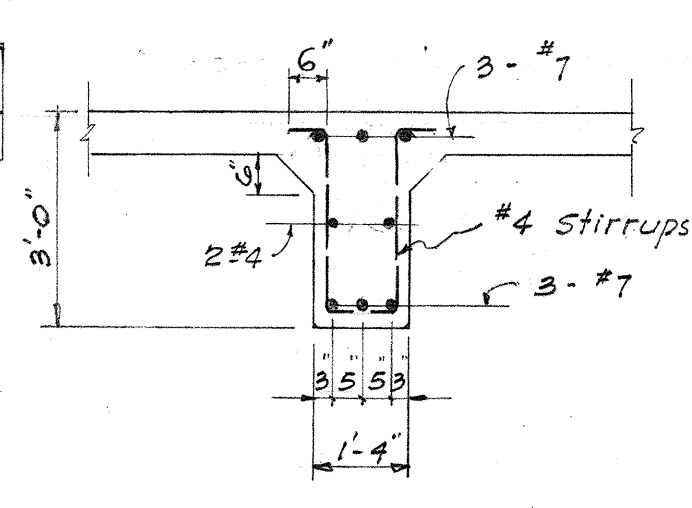
SECTION A-B2
Scale $\frac{3}{8}$ " = 1'-0"



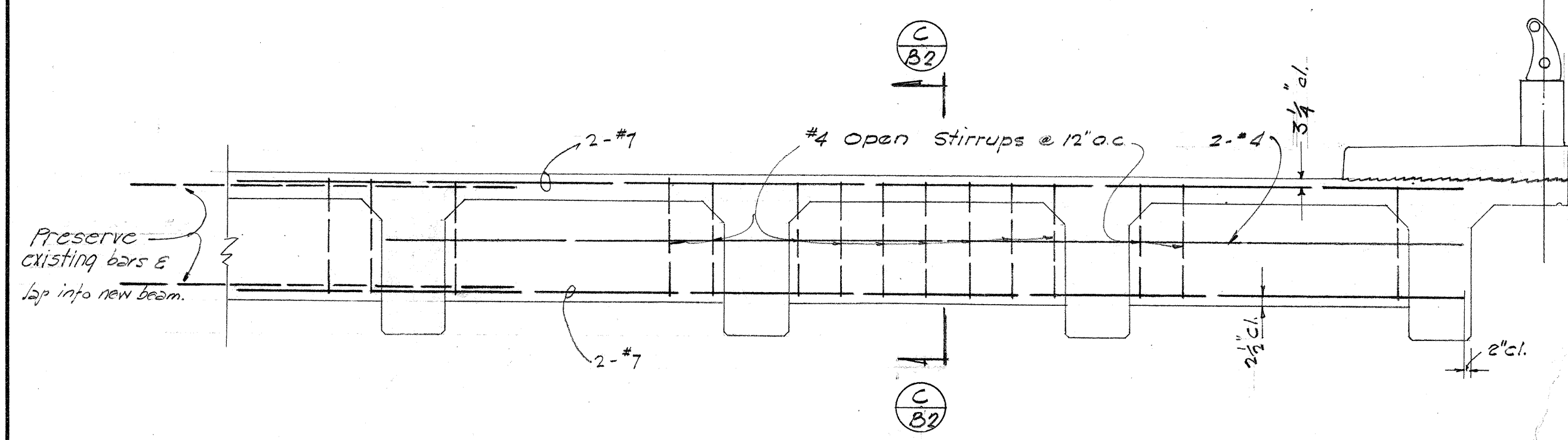
PIPE HANGER DETAIL FOR 2 1/2" WATER PIPE
No Scale



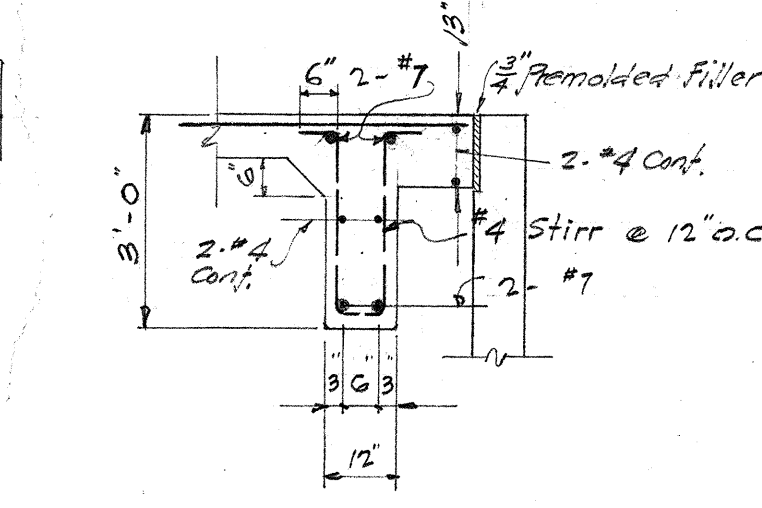
INTERMEDIATE TRANSVERSE BEAM REINF.
Scale $\frac{3}{8}$ " = 1'-0"



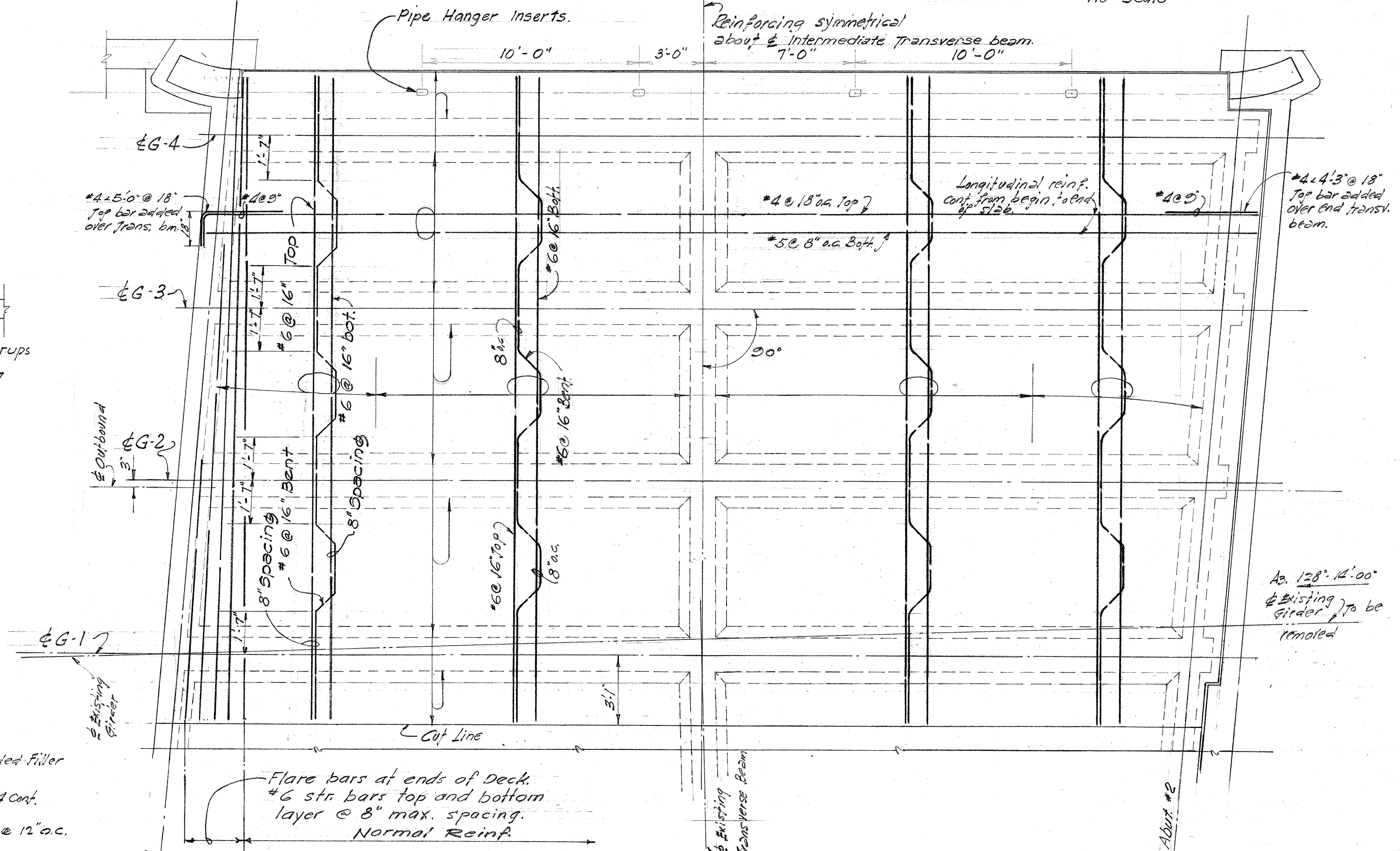
SECTION B-B2
Scale $\frac{3}{8}$ " = 1'-0"



TRANSVERSE BEAM AT ABUTMENT NO. 2
Scale $\frac{3}{8}$ " = 1'-0"



SECTION C-C2
Scale $\frac{3}{8}$ " = 1'-0"



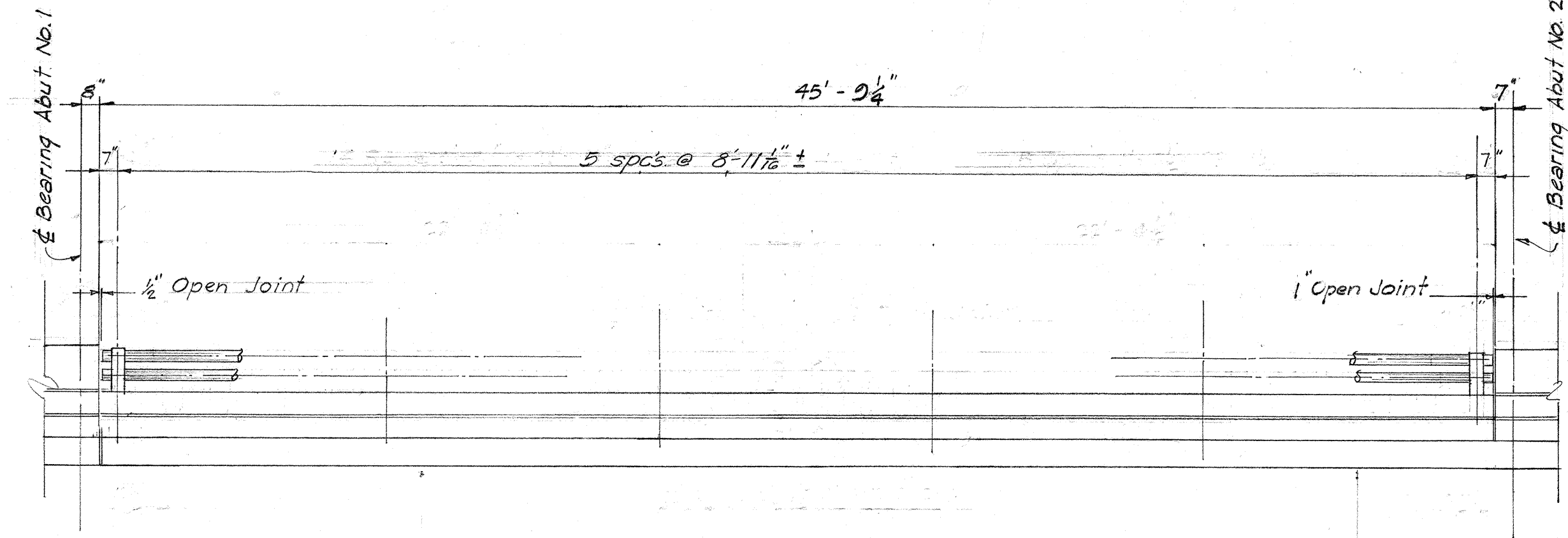
DECK REINF.
Scale $\frac{1}{4}$ " = 1'-0"

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION
AREA STREAM BRIDGE
DECK REINFORCEMENT DETAILS
Outbound: Sta. 114+30.00 to Sta. 114+80.00
KAMEHAMEHA HWY. Proj. No. F-090-1(4)
JUNE 1963

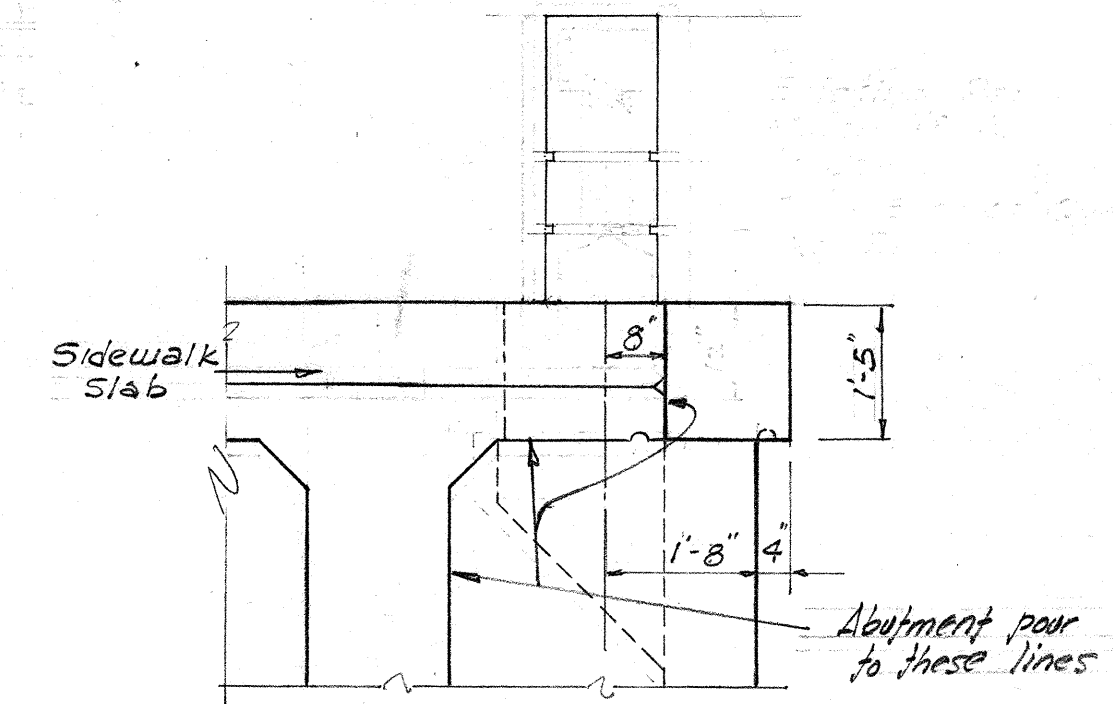
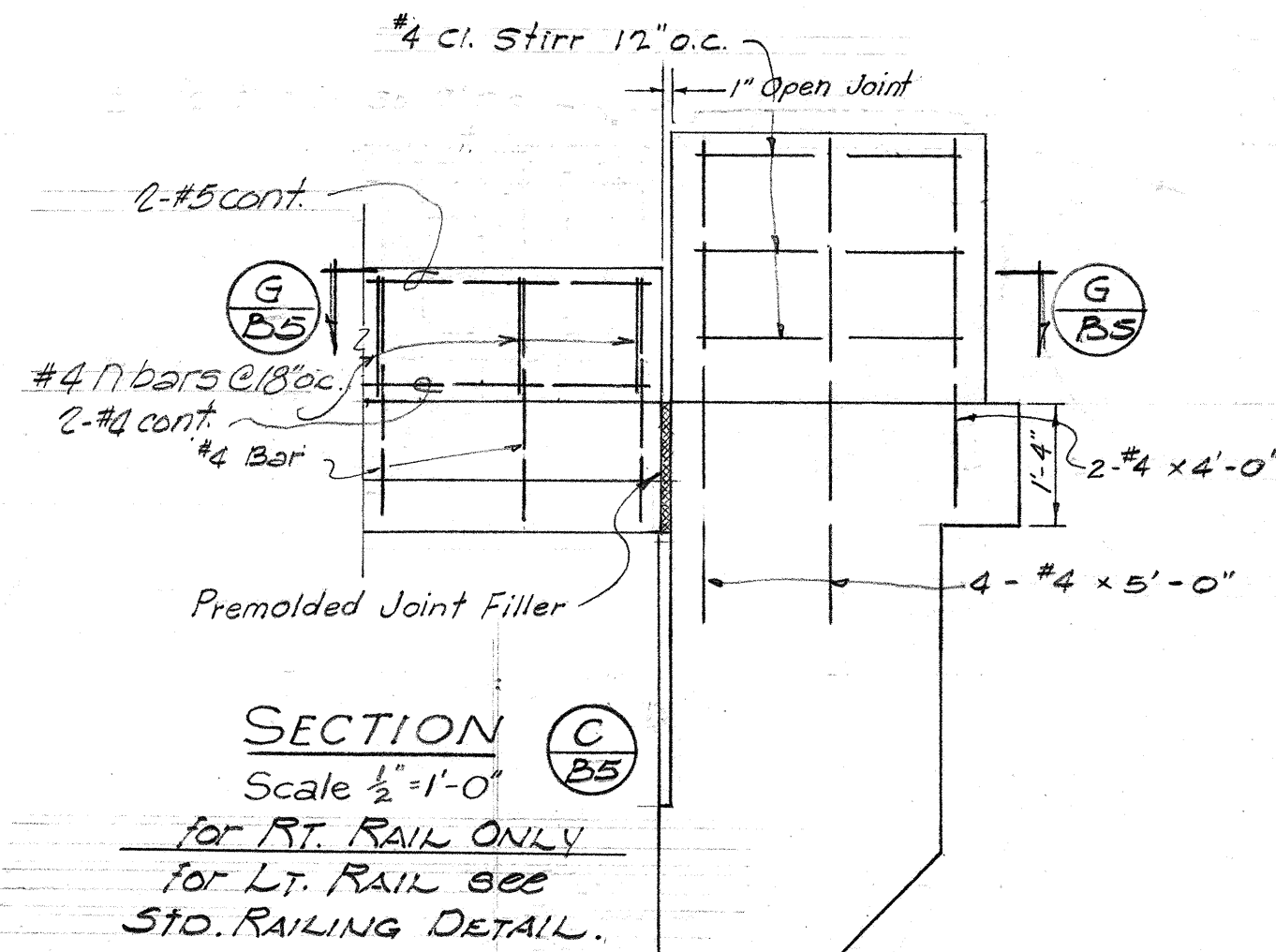
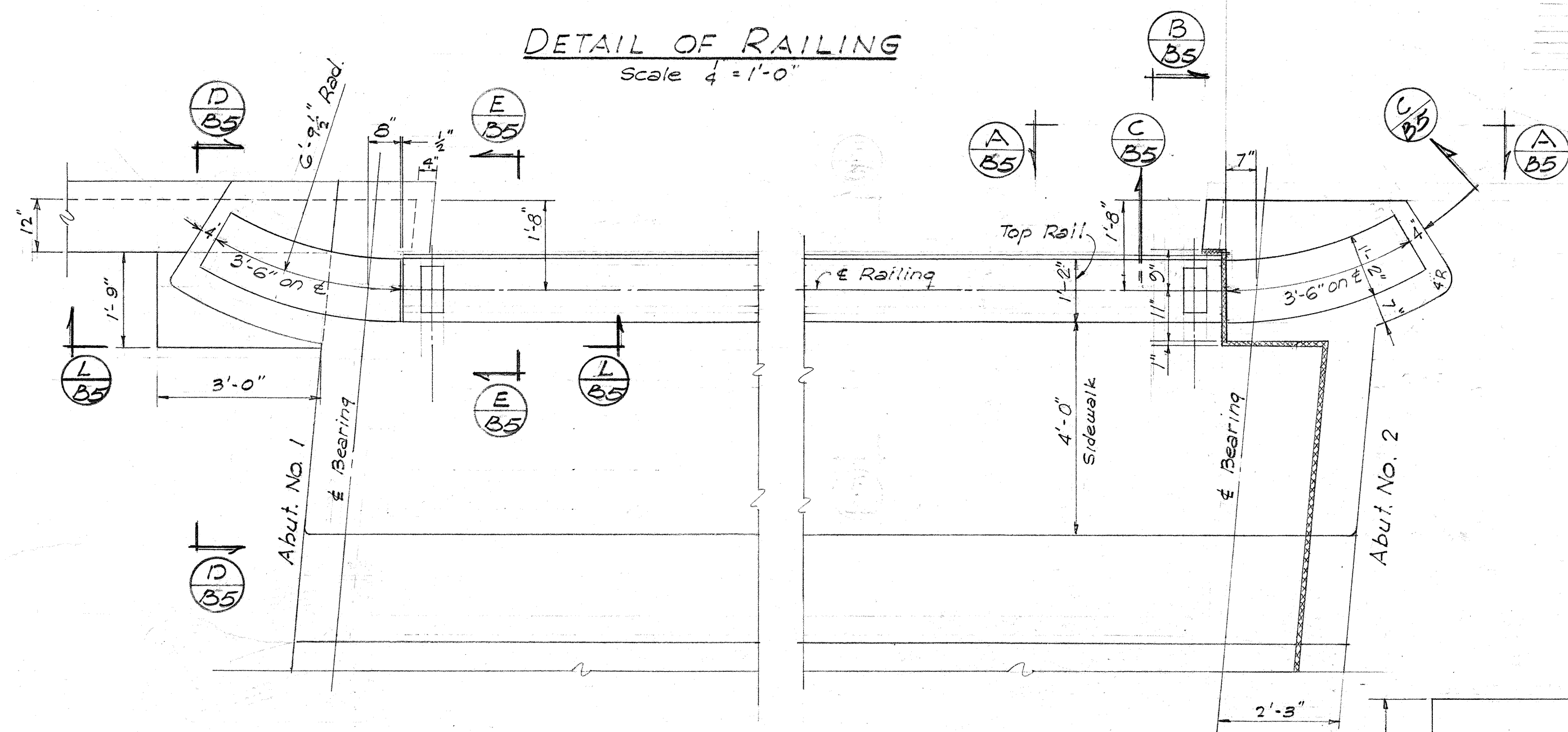
SURVEY PLOTTED BY: _____
DESIGNED BY: _____
DRAWN BY: _____
QUANTITIES CHECKED BY: _____
NOTE BOOK NO. _____

ORIGINAL	SURVEY PLOTTED BY	DATE
PLAN	DESIGNED BY	"
	DRAWN BY <i>J.M. M.V.</i>	"
	TRACED BY	"
NOTE BOOK	QUANTITIES BY <i>TS, SV</i>	"
	QUANTITIES CHECKED BY <i>TS, SV</i>	"
No.	CHECKED BY <i>TS & SV</i>	"

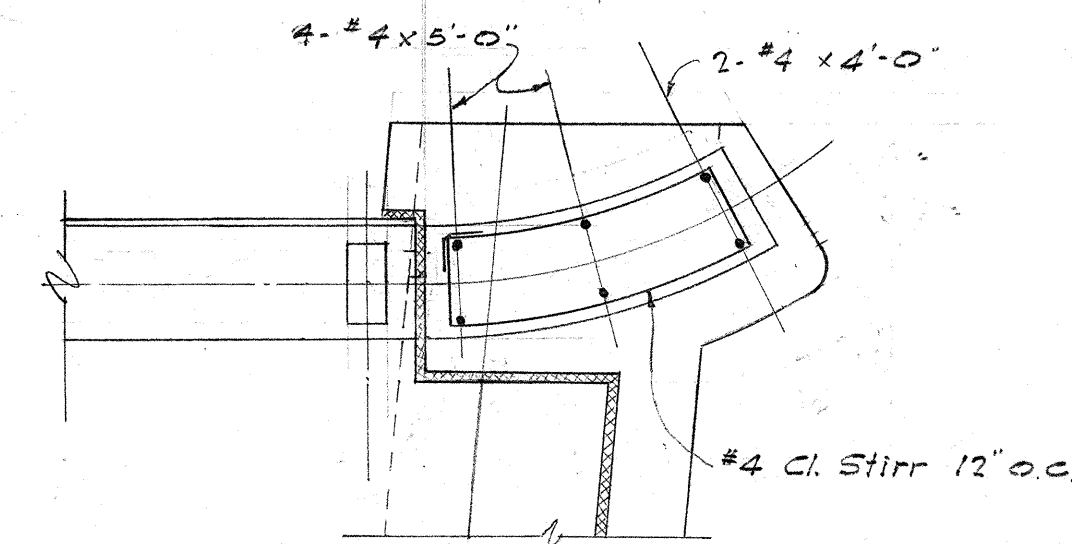




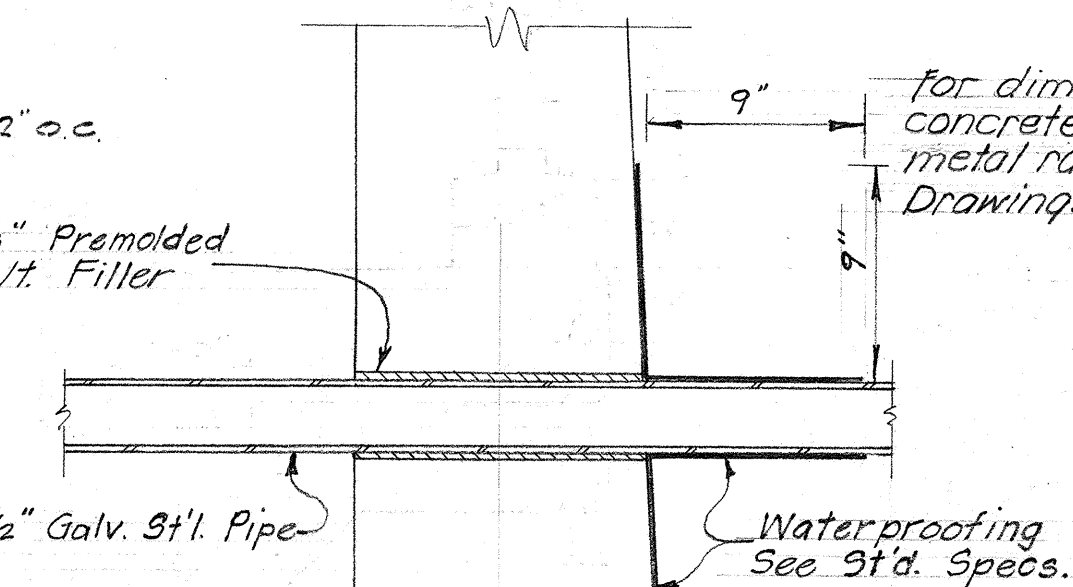
DETAIL OF RAILING
Scale $\frac{1}{4}'' = 1'-0''$



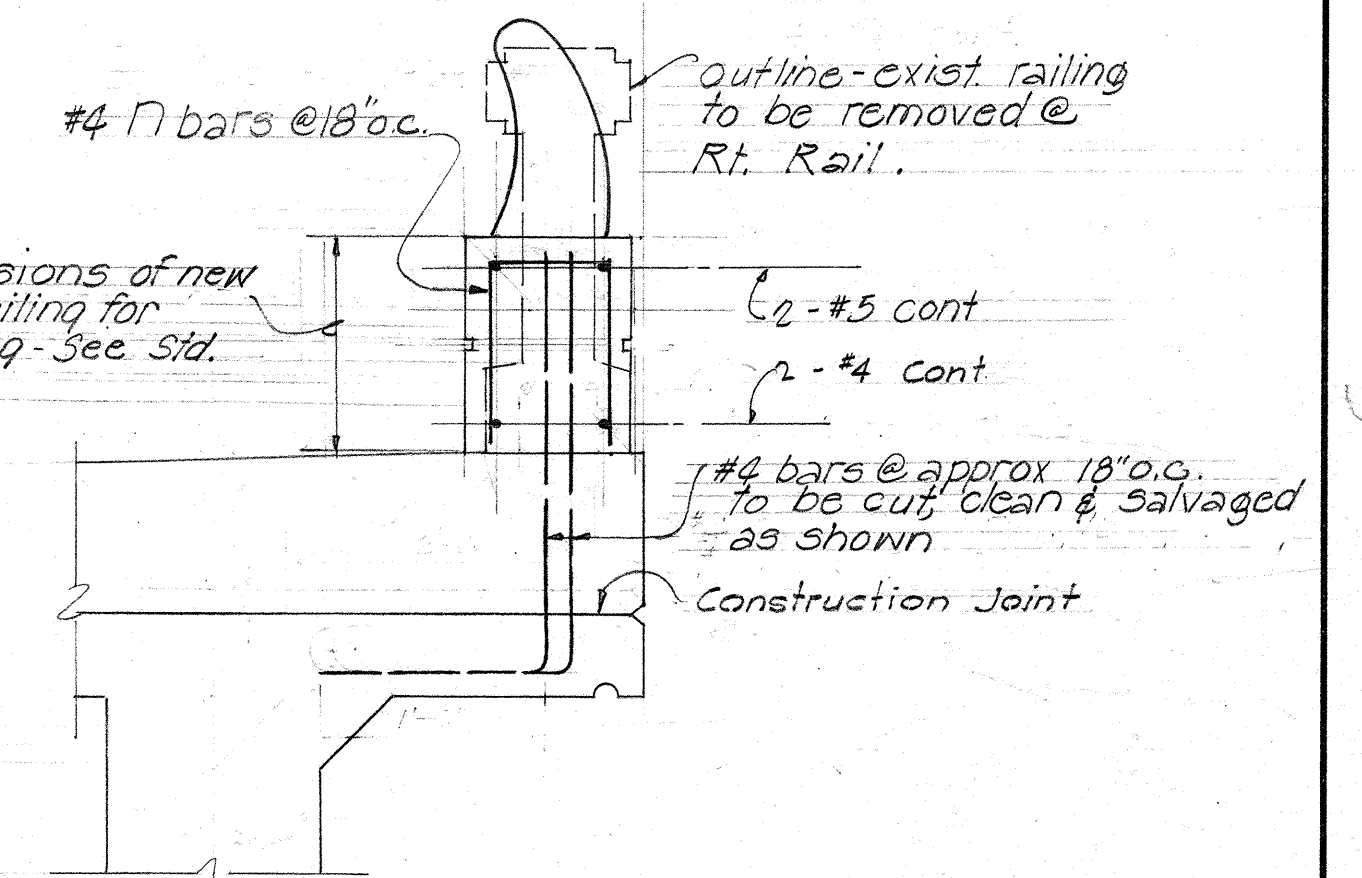
SECTION E-B5
Scale $\frac{1}{2}'' = 1'-0''$



SECTION G-B5
Scale $\frac{1}{2}'' = 1'-0''$

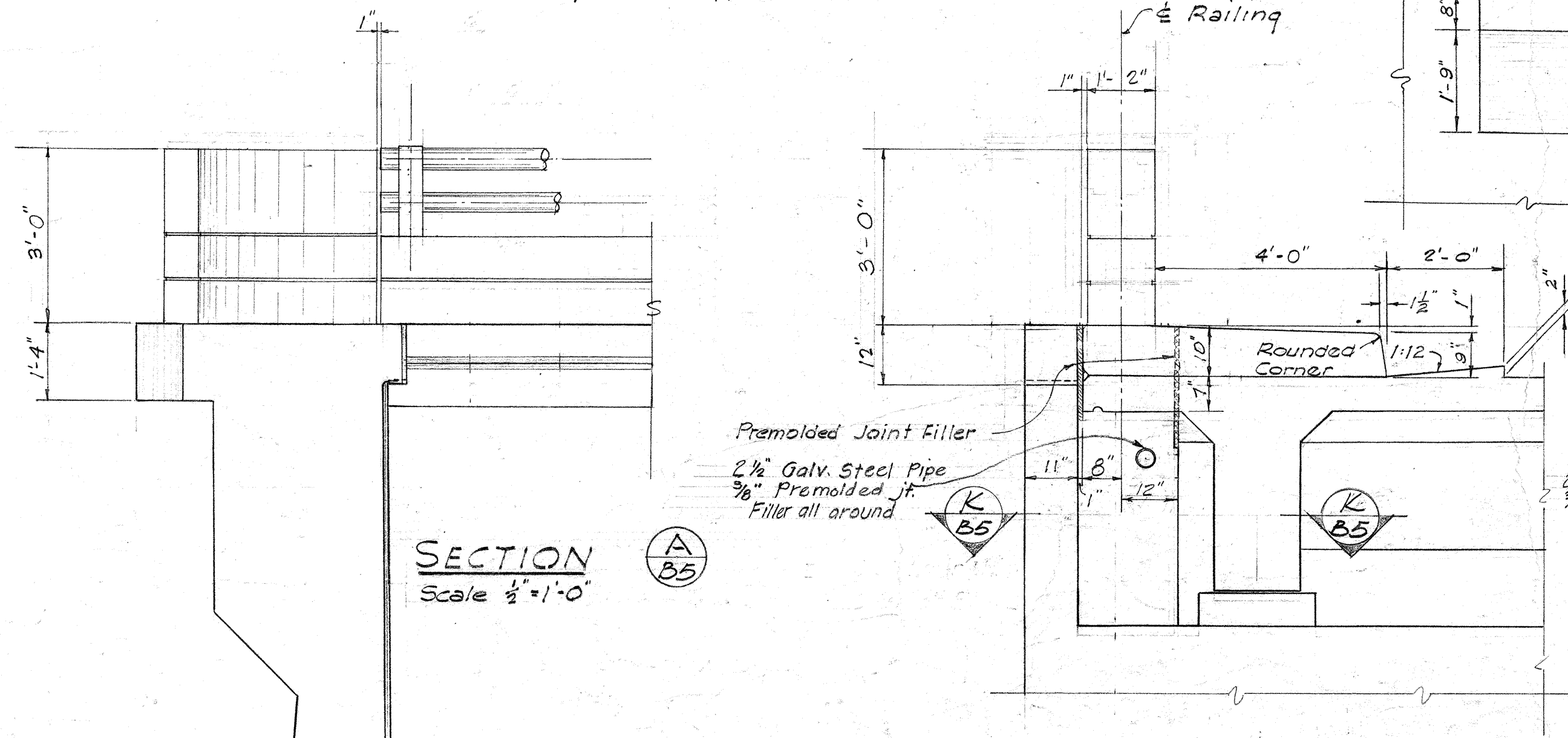


TYPICAL SEC. - PIPE THRU ABUT.

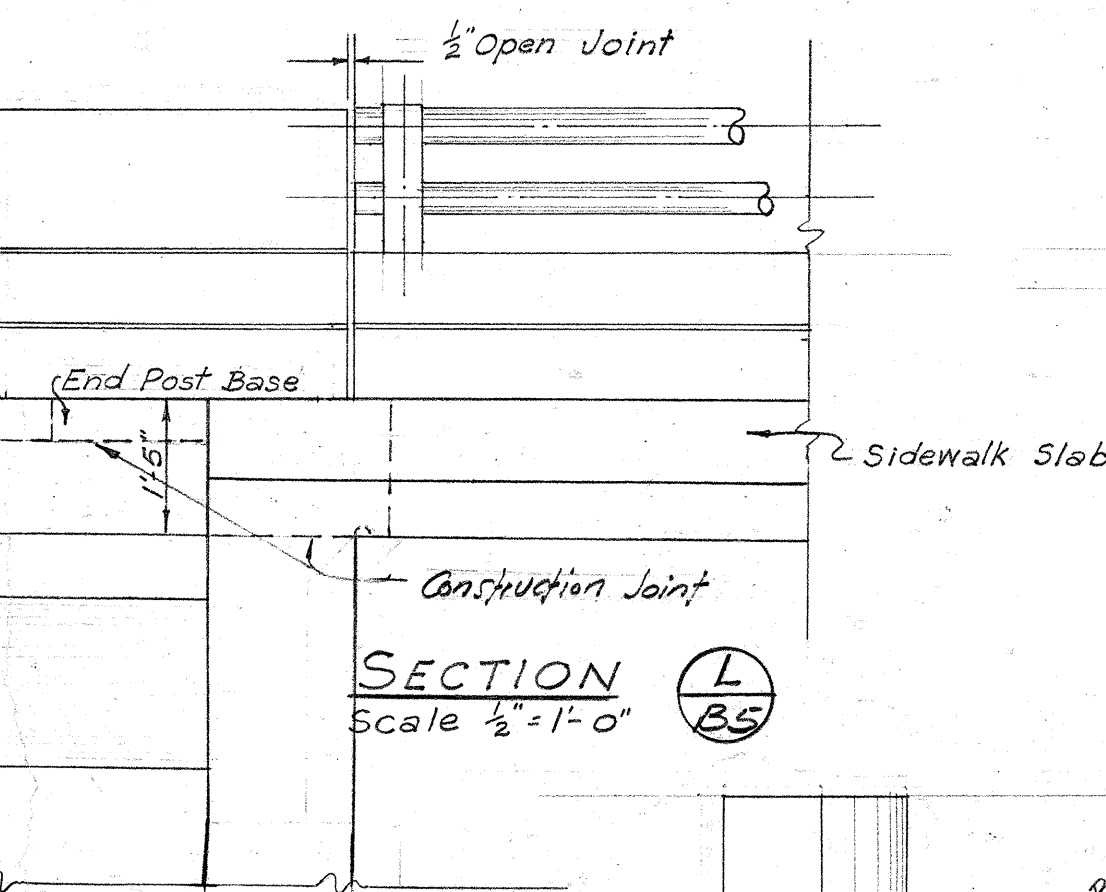


RAILING REINFORCING F-B5
Scale $\frac{3}{4}'' = 1'-0''$
for RT. RAIL ONLY
for LT. RAIL see STD. RAILING DETAIL

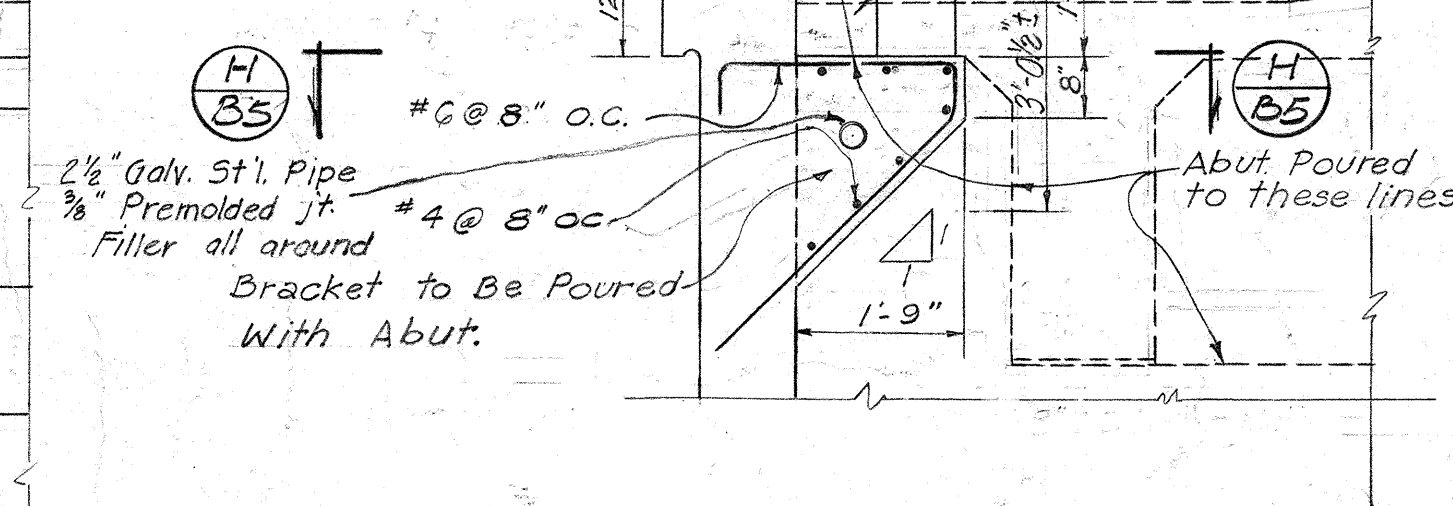
LT. END POST PLAN Scale: $\frac{1}{2}'' = 1'-0''$
RT. END POST PLAN SIMILAR
BUT OPPOSITE HAND



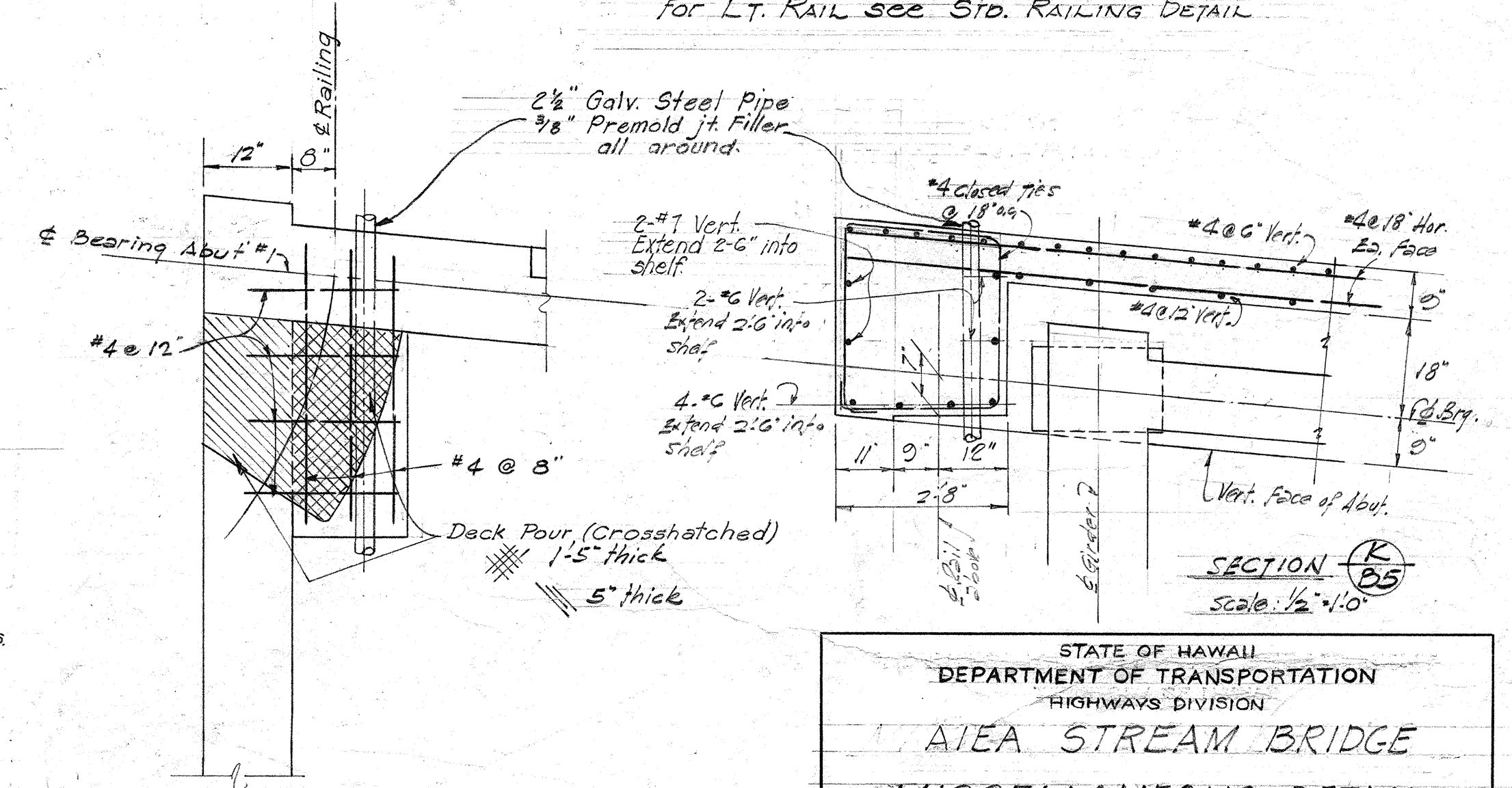
SECTION A-B5
Scale $\frac{1}{2}'' = 1'-0''$



SECTION L-B5
Scale $\frac{1}{2}'' = 1'-0''$



SECTION H-B5
Scale $\frac{1}{2}'' = 1'-0''$



SECTION K-B5
Scale $\frac{1}{2}'' = 1'-0''$

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION
AIEA STREAM BRIDGE
MISCELLANEOUS DETAILS
Outbound Sta. 114 + 30.63 to Sta. 114 + 80.66
KAMEHAMEHA HWY. PROJ. NO. F-090-104
JUNE 1963