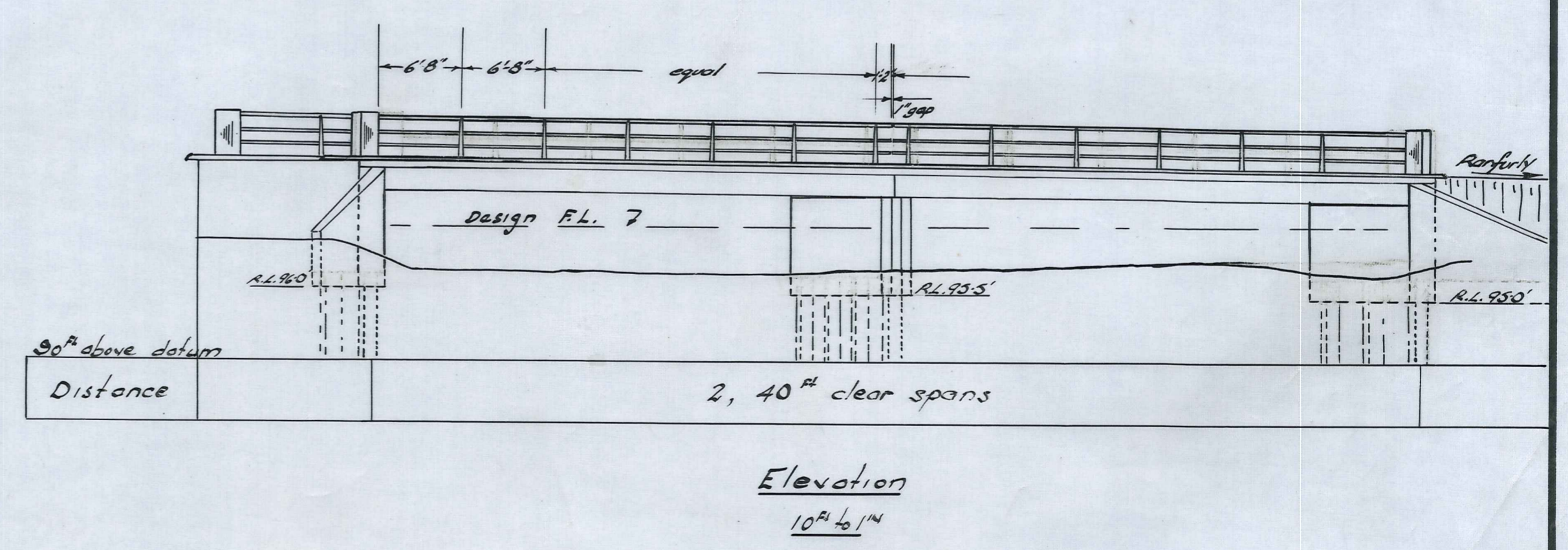
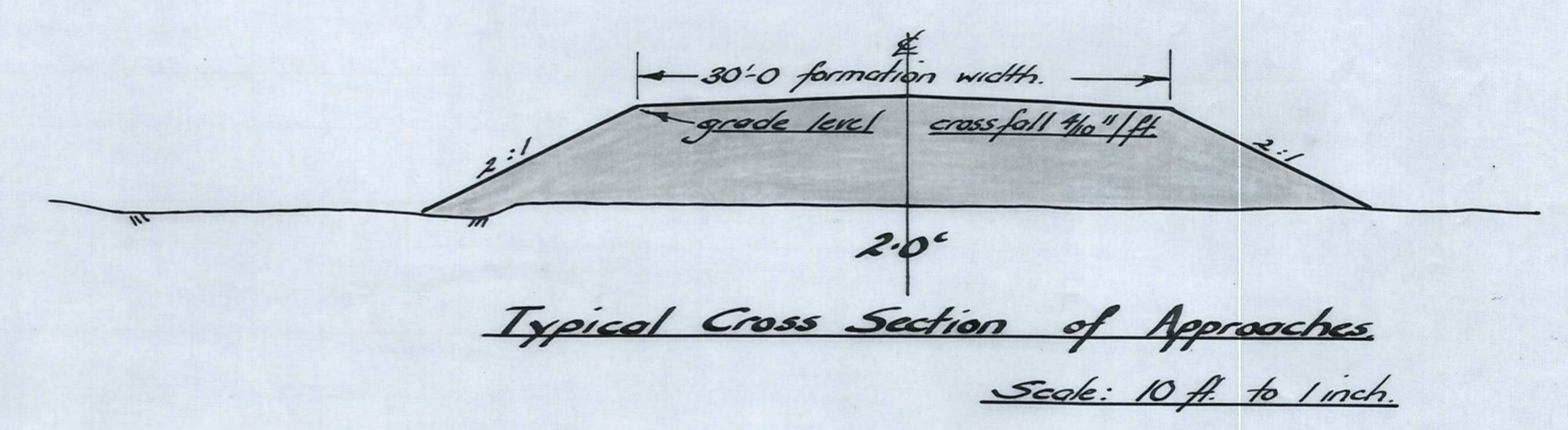


90' above Datum

Distance	1	2	3	4	5	6	7	8	9.5	11.5		
Surface Level	107.7	106.3	101.33	100.80	99.64	98.44	97.55	99.42	98.06	101.3	100.1	99.6
Deck Level					106.0	105.0						
Formation Level	107.3	107.1	106.9	106.4	105.8	104.7	104.2	103.1	102.0	101.0		

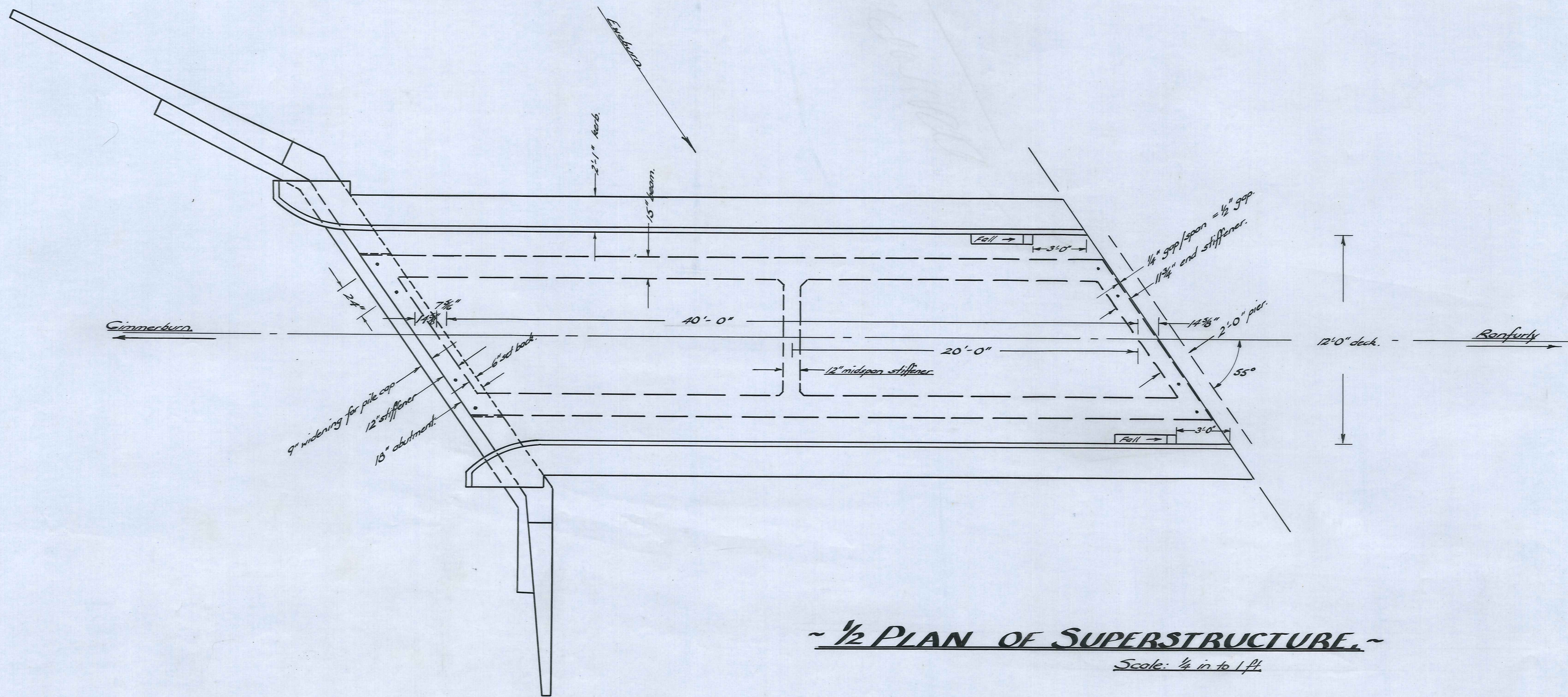
Labels: Exist RL, 80' clear opening, deck L, formation L.

Scales: 1/4" to 1" Horiz.
10" to 1" Vert.

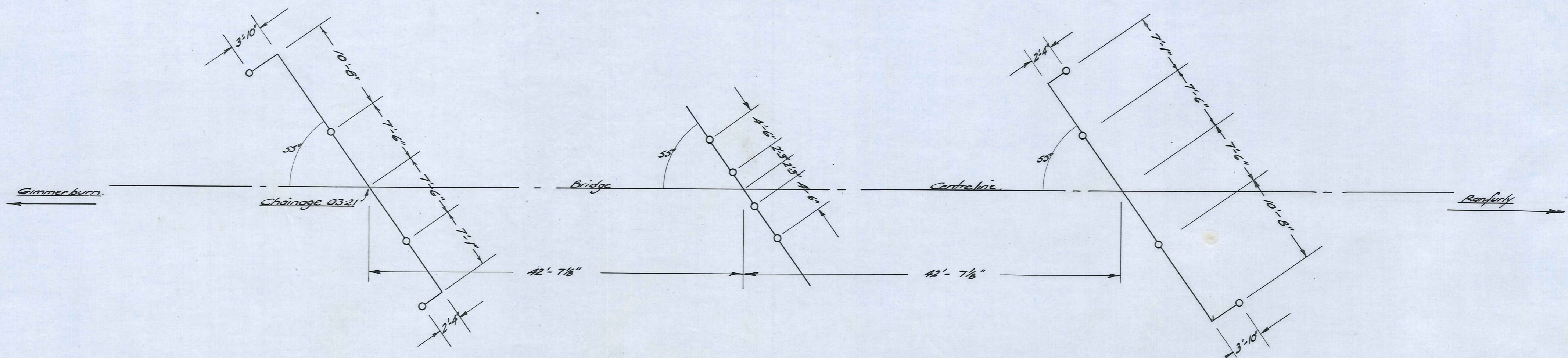


Catchment Data

Area of Catchment	15000 ac
Length of Catchment	12 m/s
Design Flood n=50	1850 cu/sec
Stream grade at site	0.0108
Area of Waterway normal to stream	200 sq ft
Area of Waterway parallel to skew	240 sq ft
Hydraulic Radius	2.75 ft
Design Flood RL at site	100.75

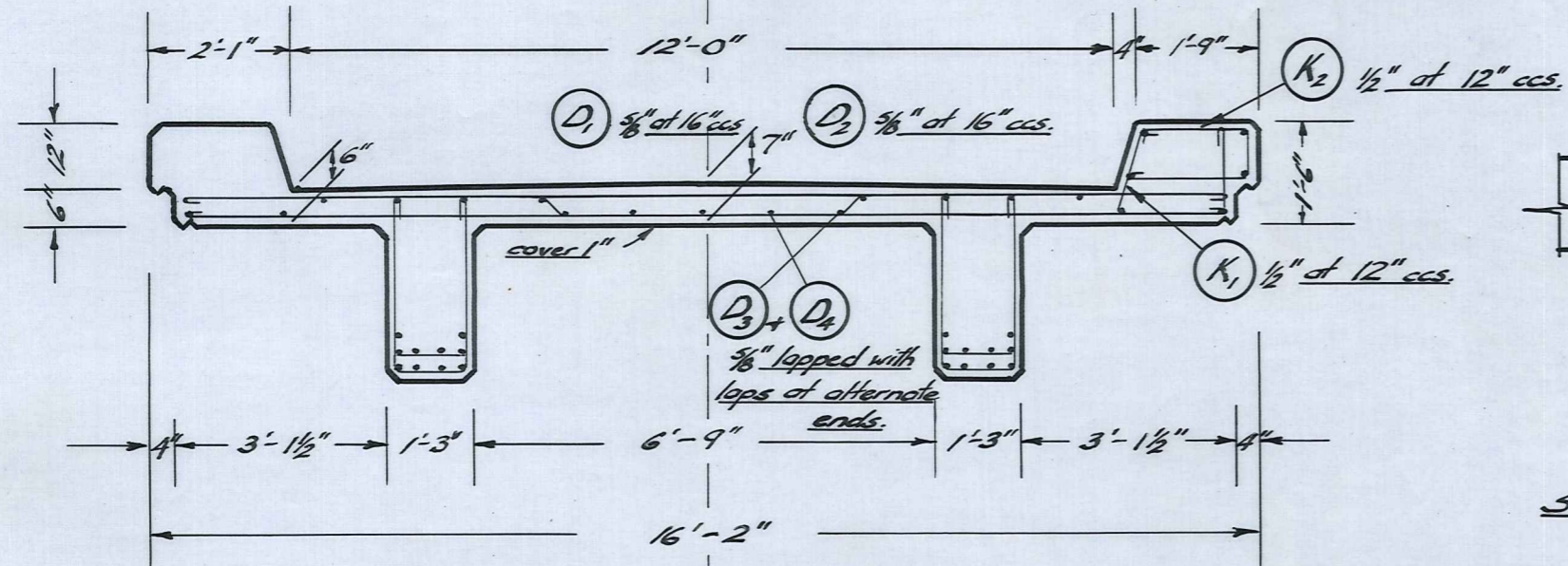


~ 1/2 PLAN OF SUPERSTRUCTURE ~
 Scale: 1/4 in to 1 ft.

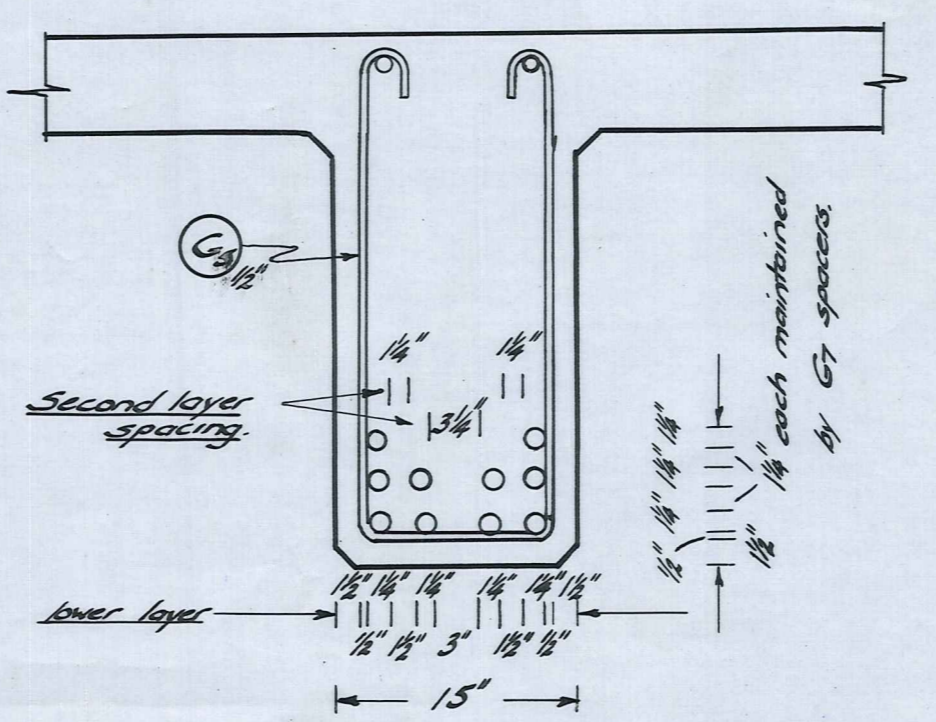


~ PILING PLAN ~
 Scale: 1/8" to 1 ft.

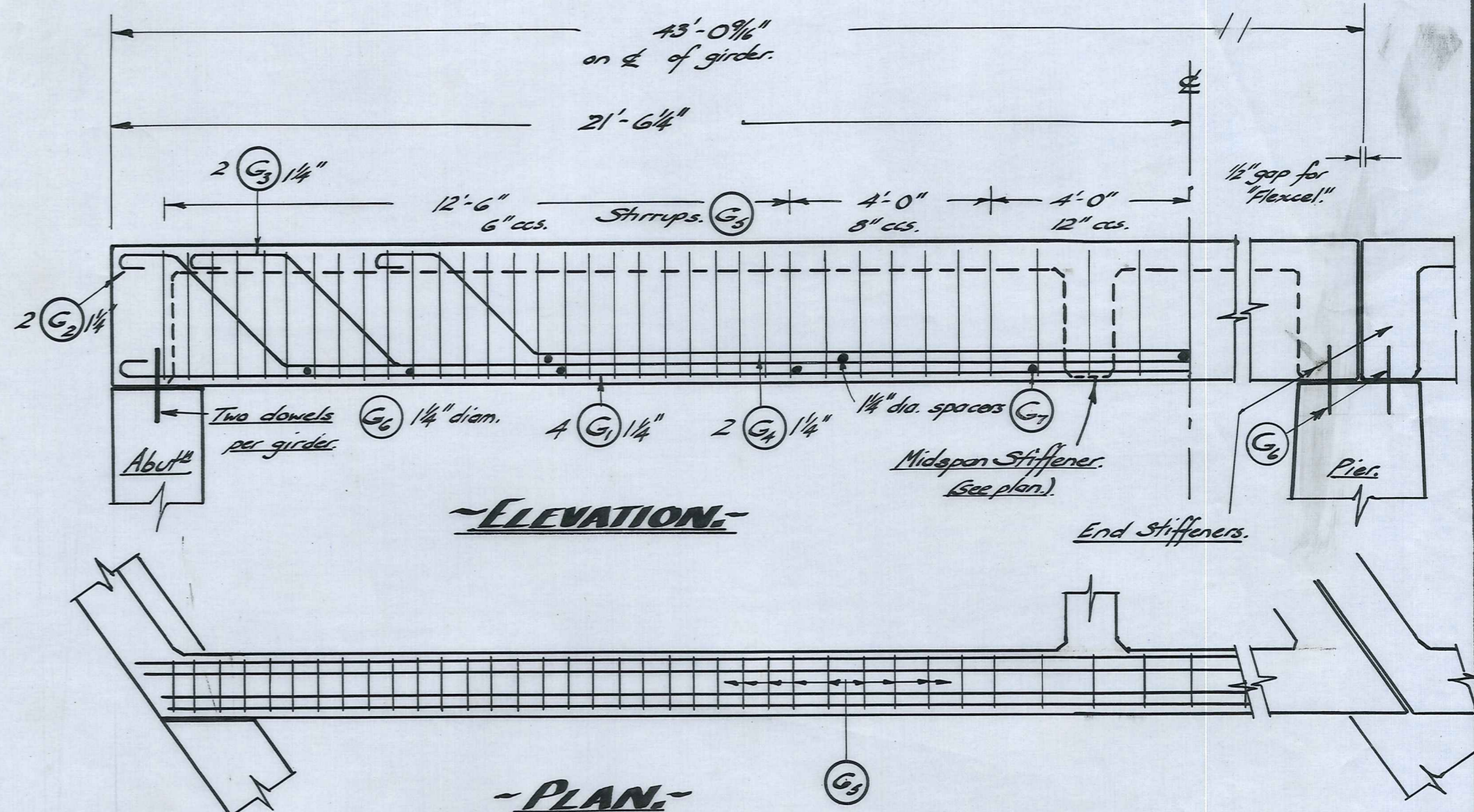
Note: Deck Steel $D_1 + D_2$ // skew.
 " " $D_3 + D_4$ // Bridge ϕ .
 Kerb " $K_1 + K_2$ normal to kerbs.



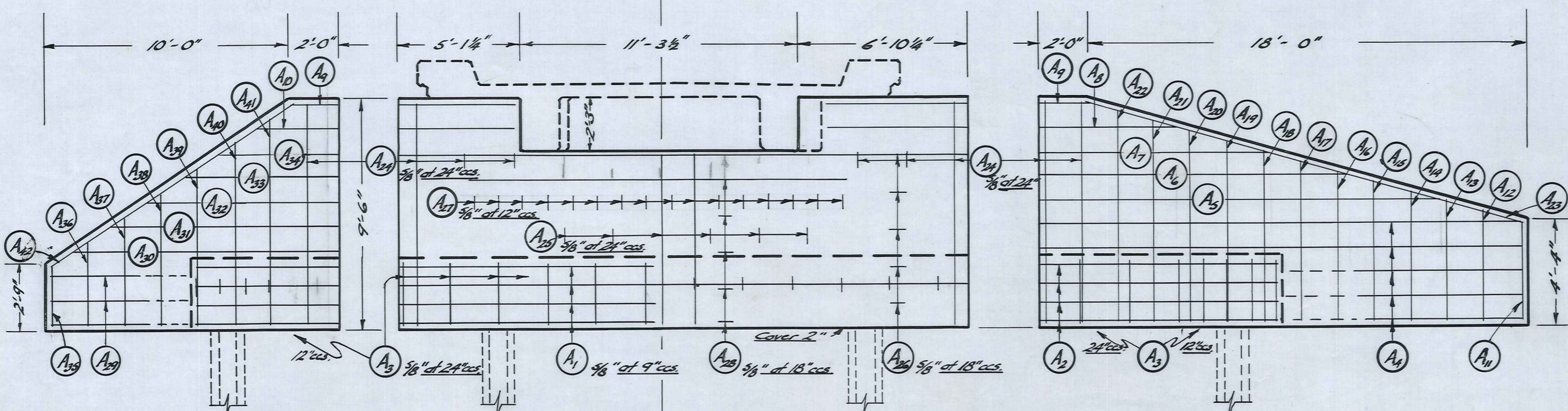
SECTION OF DECK & GIRDERS, NORMAL TO ϕ .
 Scale: $\frac{3}{8}$ in to 1 ft.



GIRDER SECTION.
 Scale: 1" to 1 ft.

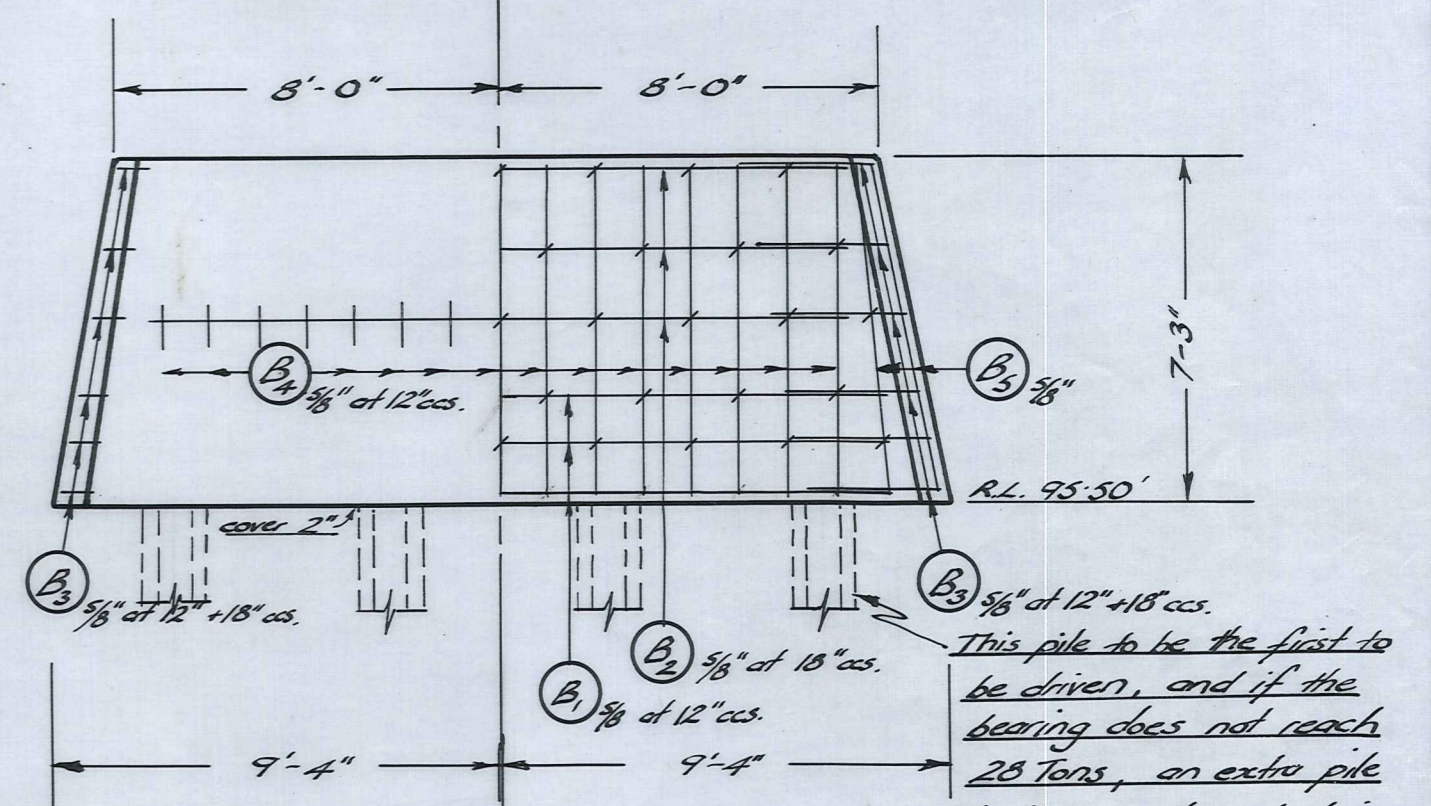


GIRDER DETAILS.
 Scale: $\frac{3}{8}$ in to 1 ft.



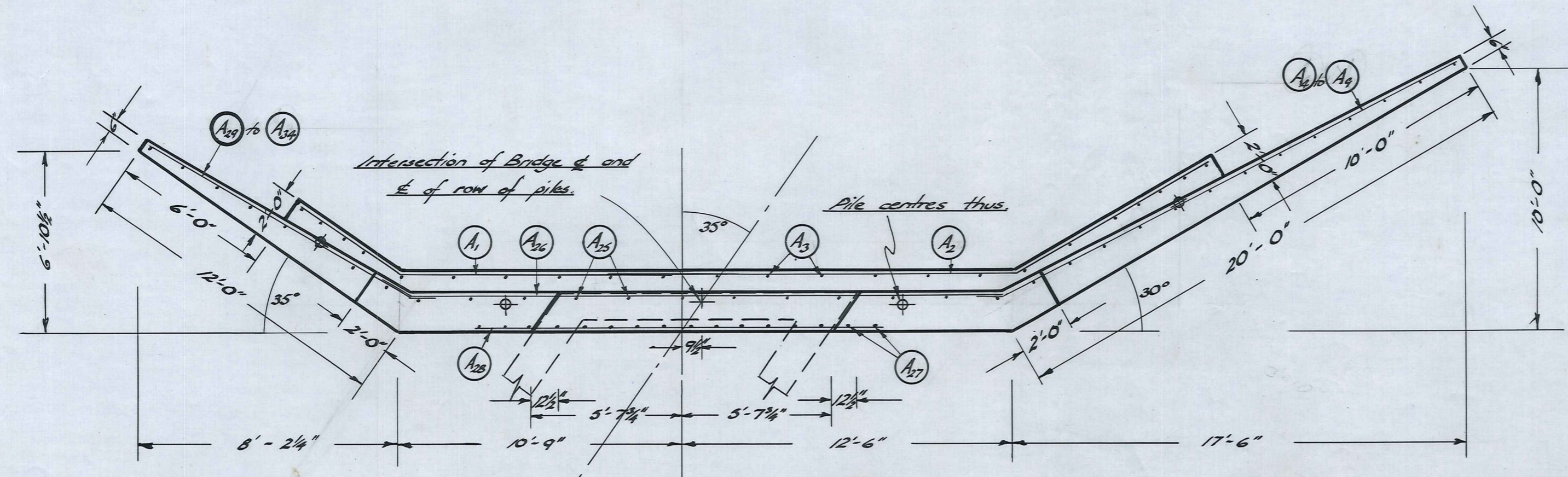
ELEVATION.

Note: A_1-3 in rear of pilecap.
 A_4-24 in rear of wingwall.
 A_{25-26} in rear of abutment.
 A_{27-28} in front of abutment.
 A_{29-42} in rear of wingwall.

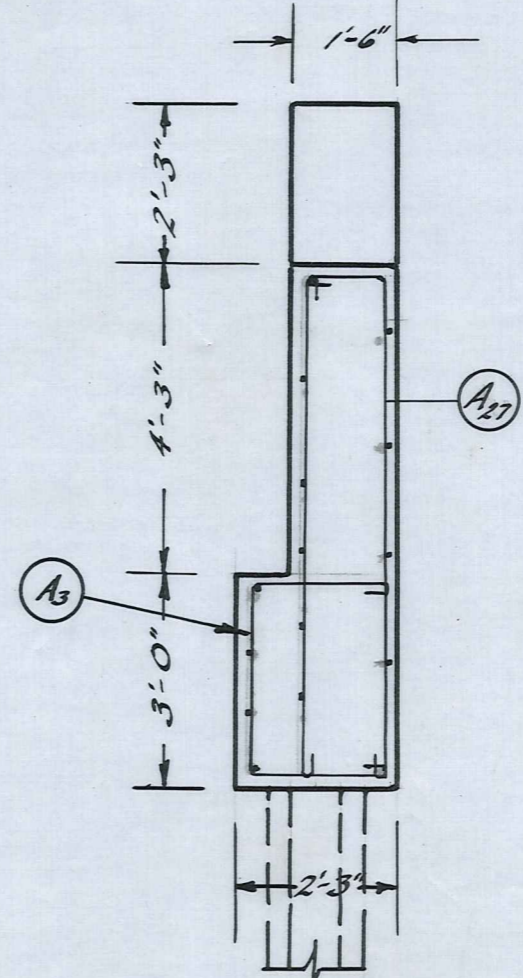


ELEVATION.

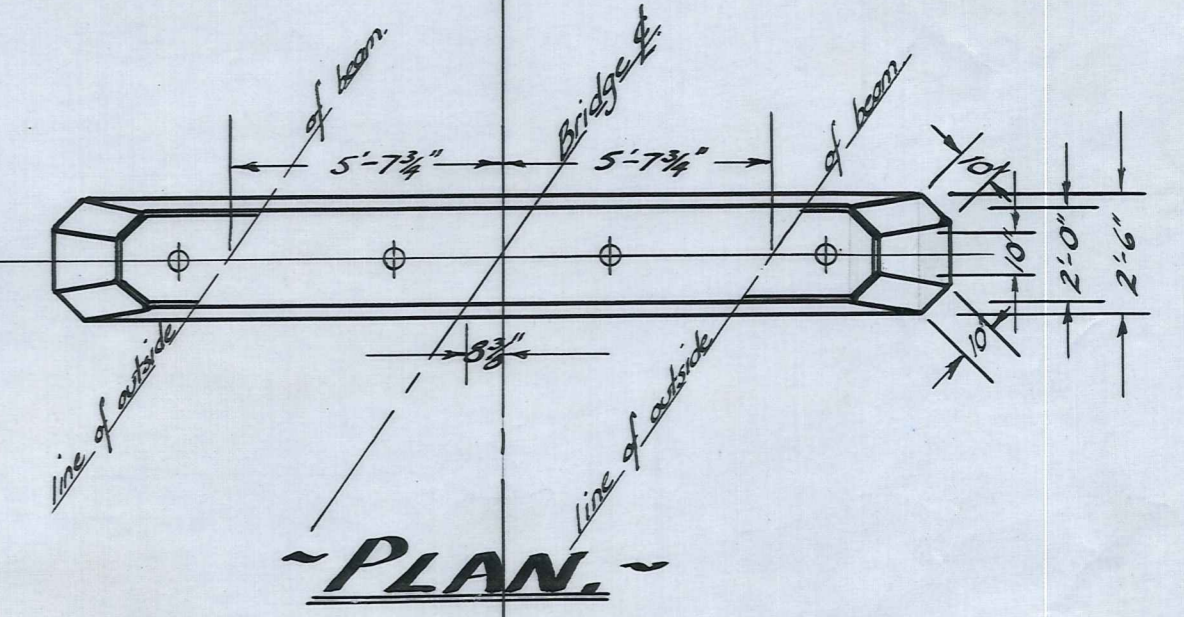
This pile to be the first to be driven, and if the bearing does not reach 28 tons, an extra pile is to be cast and driven in the pier.



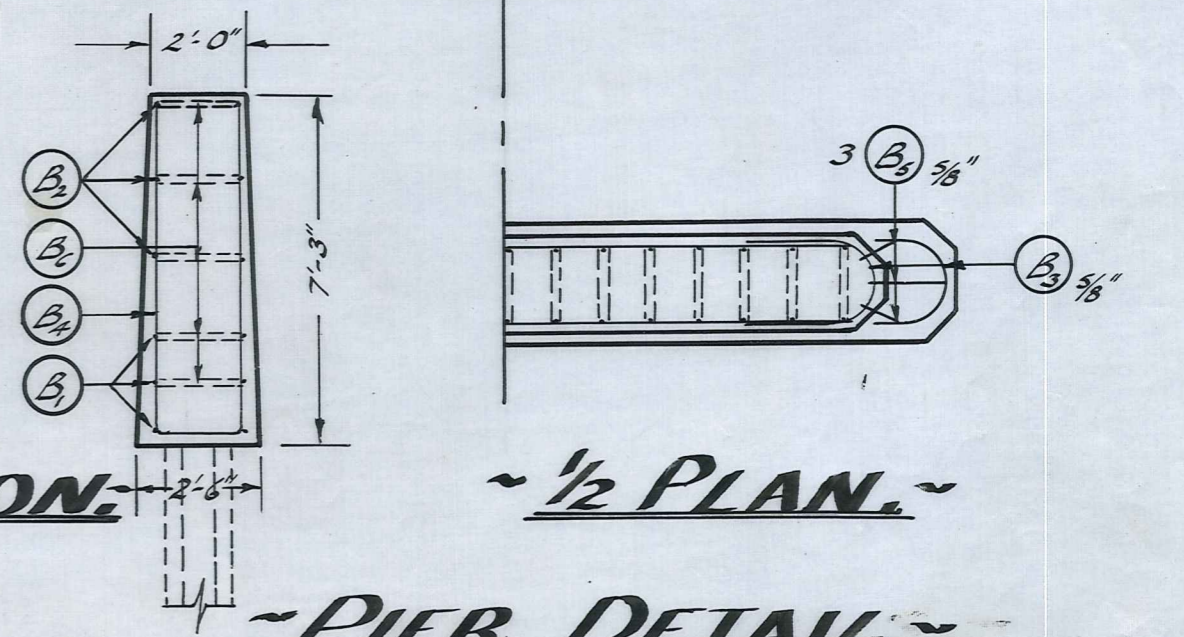
DETAIL OF ABUTMENT.
 (Both abutments identical.)
 Scale: $\frac{1}{4}$ in to 1 ft.



TYPICAL ABUTMENT SECTION.
 Scale: $\frac{3}{8}$ in to 1 ft.



PIER DETAIL.

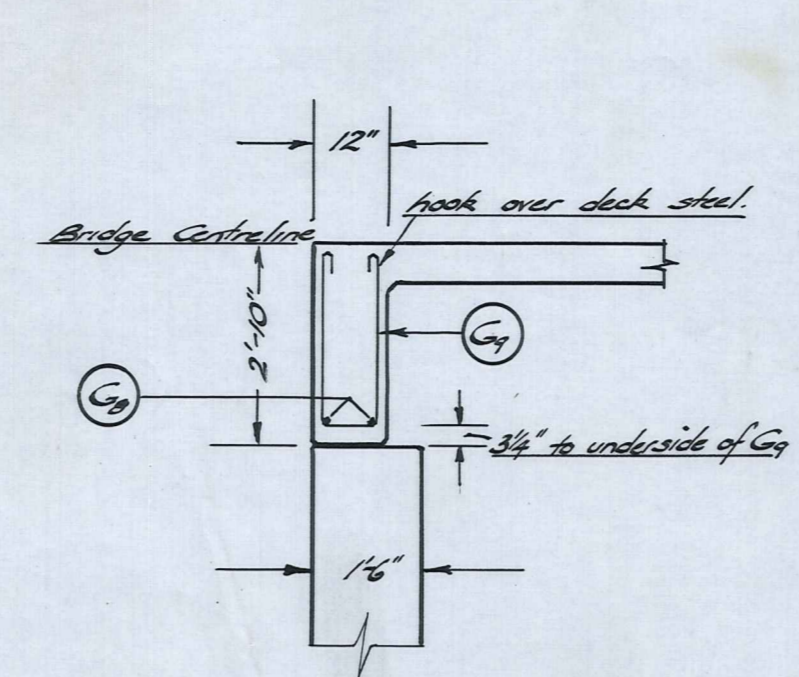


PIER DETAIL.
 Scale: $\frac{1}{4}$ in to 1 ft.

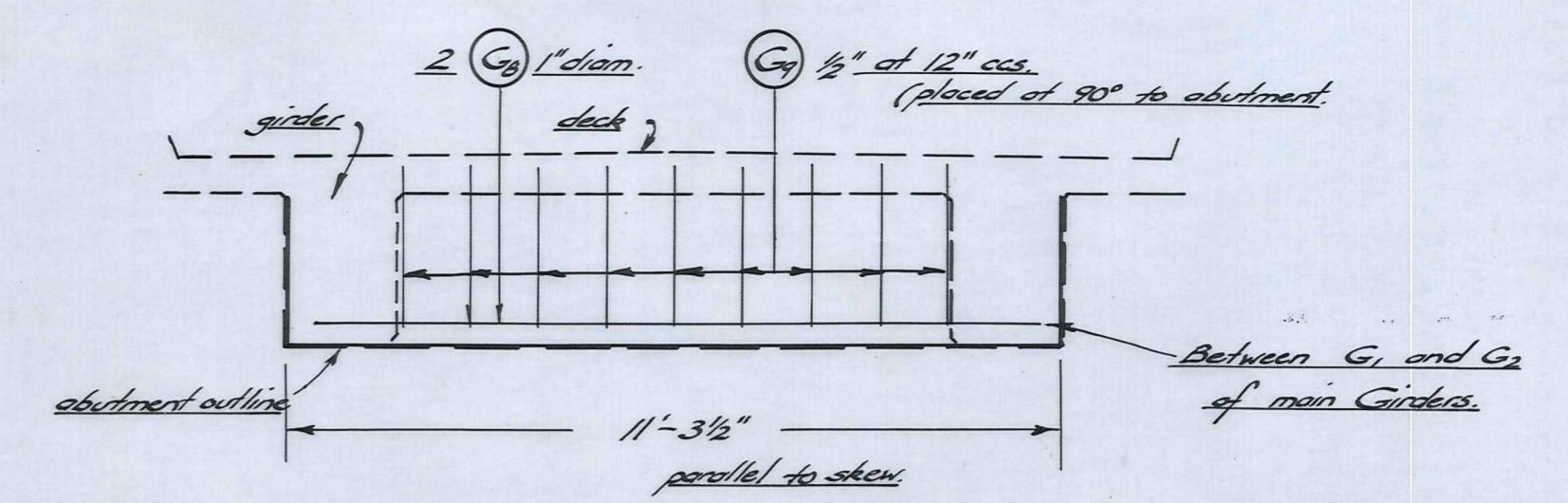
Piles: All piles to be 16" octagonal reinforced conc. piles to P.W.D. 127636 24 ft. long. Safe load to be not less than 26 tons per pile.

Note: Min^m cover to be 1 1/2" unless shown otherwise.

Steel Schedule						Diagram	Diagram
Rod Dia	No of	Shape	Cut Length	a	b		
A ₁	8	II	15'-0"	10'-4"	4'-8"	Type I	
A ₂	8	III	24'-8"	15'-6"	8'-6"		
A ₃	4	IV	7'-6"	1'-11"	2'-8"		
A ₄	10	III	20'-6"	19'-5"	1'-1"		
A ₅	2	III	17'-0"	15'-11"	1'-1"		
A ₆	2	III	13'-0"	11'-11"	1'-1"	Type II	
A ₇	2	III	10'-0"	8'-11"	1'-1"		
A ₈	2	III	10'-5"	5'-5"	5'-3"		
A ₉	4	III	7'-2"	1'-11"	5'-3"		
A ₁₀	2	II	8'-3"	3'-6"	5'-3"		
A ₁₁	2	I	4'-1"	4'-1"		Type III	
A ₁₂	2	I	4'-6"	4'-6"			
A ₁₃	2	I	4'-11"	4'-11"			
A ₁₄	2	I	5'-4"	5'-4"			
A ₁₅	2	I	5'-10"	5'-10"			
A ₁₆	2	I	6'-3"	6'-3"		Type IV	
A ₁₇	2	I	6'-8"	6'-8"			
A ₁₈	2	I	7'-1"	7'-1"			
A ₁₉	2	I	7'-6"	7'-6"			
A ₂₀	2	I	8'-0"	8'-0"			
A ₂₁	2	I	8'-5"	8'-5"		Type V	
A ₂₂	2	I	8'-10"	8'-10"			
A ₂₃	2	I	18'-9"	18'-9"			
A ₂₄	18	V	10'-3"	9'-3"			
A ₂₅	12	V	8'-0"	7'-0"			
A ₂₆	10	III	24'-6"			Type VI	
A ₂₇	32	III	9'-3"	7'-0"	1'-3"		
A ₂₈	12	I	15'-6"	15'-6"			
A ₂₉	6	II	12'-6"	11'-5"	1'-1"		
A ₃₀	2	II	11'-7"	10'-6"	1'-1"		
A ₃₁	2	II	10'-1"	9'-0"	1'-1"	Type VII	
A ₃₂	2	II	8'-7"	7'-6"	1'-1"		
A ₃₃	2	II	7'-1"	6'-0"	1'-1"		
A ₃₄	2	II	5'-7"	4'-6"	1'-1"		
A ₃₅	2	I	2'-6"	2'-6"			
A ₃₆	2	I	3'-6"	3'-6"		Type VIII	
A ₃₇	2	I	4'-6"	4'-6"			
A ₃₈	2	I	5'-6"	5'-6"			
A ₃₉	2	I	6'-6"	6'-6"			
A ₄₀	2	I	7'-6"	7'-6"			
A ₄₁	2	I	8'-6"	8'-6"		Type IX	
A ₄₂	2	I	12'-0"	12'-0"			
B ₁	6	I	16'-3"	16'-3"			
B ₂	6	I	14'-6"	14'-6"			
B ₃	12	VIII	6'-8"				
B ₄	15	IX	15'-3"			Type X	
B ₅	6	I	7'-0"	7'-0"			
B ₆	41	I	3'-9"	Bend on Site			
D ₁	64	IX	19'-9"				
D ₂	132	IX	19'-6"	18'-6"			
D ₃	50	I	30'-0"	30'-0"		Type XI	
D ₄	50	I	15'-0"	15'-0"			
G ₁	16	V	44'-9"	42'-9"			
G ₂	8	XI	16'-8"	1'-1"	36'-0"		
G ₃	8	XI	44'-0"	2'-0"	31'-6"		
G ₄	8	XII	36'-5"			Type XII	
G ₅	284	IV	6'-9"	2'-6"	12"		
G ₆	16	I	1'-6"	1'-6"			
G ₇	60	I	1'-0"	1'-0"			
G ₈	8	I	10'-9"	10'-9"			
G ₉	36	IV	6'-4"	2'-5"	8 1/2"	Type XIII	
G ₁₀	4	XIII	10'-3"				
G ₁₁	4	I	8'-3"	8'-3"			
G ₁₂	14	IV	5'-8"	2'-1"	8 1/2"		
K ₁	168	XIV	5'-0"				
K ₂	168	XV	4'-9"				
K ₃	4	VII	5'-6"	3'-9"	9"	Type XIV	
K ₄	4	VII	4'-6"	2'-9"	9"		
K ₅	8	XVII	13'-9"				
H ₁	12	II	9'-3"	4'-0"	6"		
H ₂	28	I	7'-6"	Bend on Site			
H ₃	48	XVIII	7'-9"			Type XV	
H ₄	69	I	1'-3"	Bend on Site			



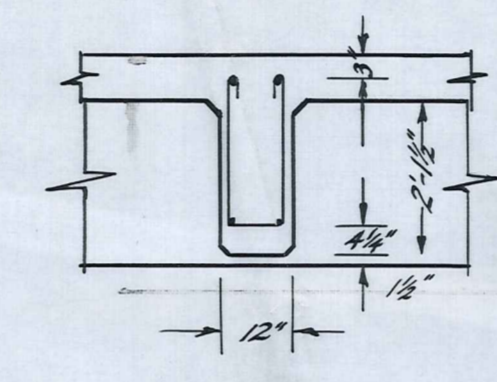
SECTION



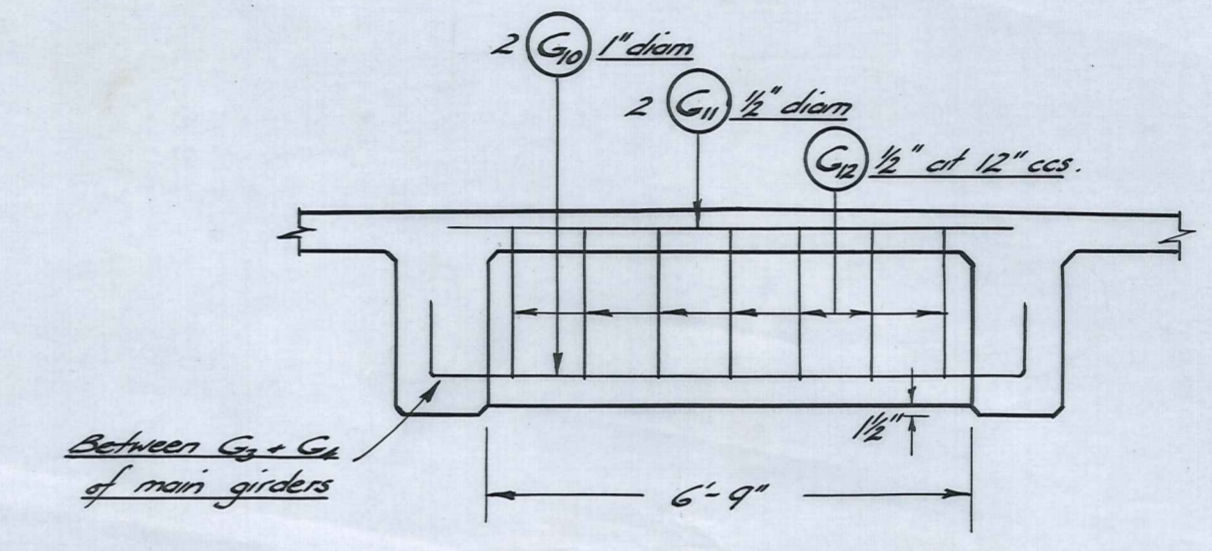
ELEVATION

DETAIL OF END STIFFENER

Scale: 3/8" to 1 ft.



SECTION



ELEVATION

DETAIL OF MIDSPAN STIFFENER

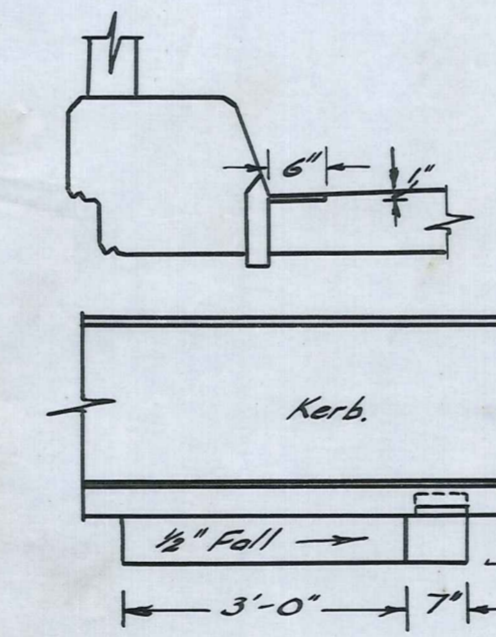
Scale: 3/8" to 1 ft.

Note: Steel for rods G₉ and G₁₀ will be supplied to Bridge Contractor ready for cutting and bending free on site by County.

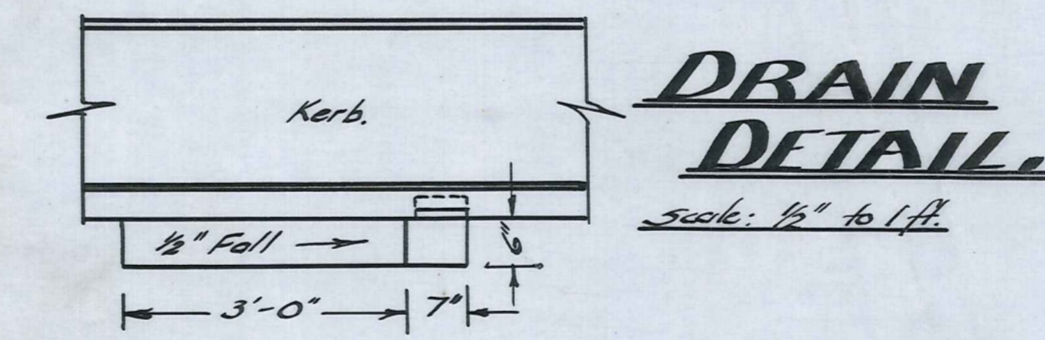
Note: Measurements to rods 1" and above: outside to outside. Other rods: centre to centre.

* Do not include in any subcontract for supply of reinforcing

Note: Rods G₁ G₂ G₃ G₄ G₆ G₇ will be supplied to bridge contractor cut & bent free on site by County

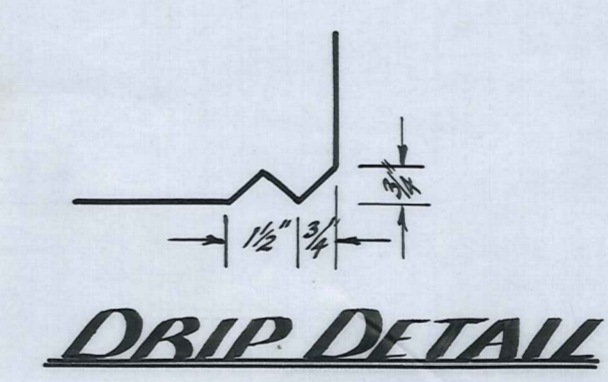


Hook & Lap

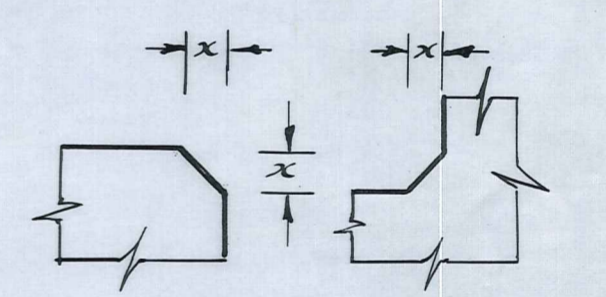


DRAIN DETAIL

Scale: 1/2" to 1 ft.

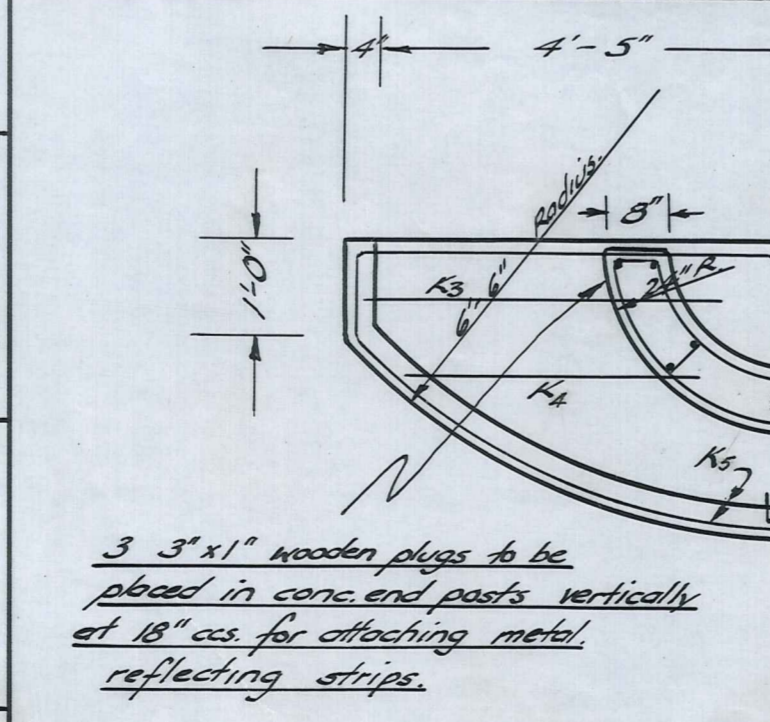


DRIP DETAIL



CHAMFER AND FILLET DETAIL

x = 1" for end and handrail posts
x = 1 1/4" for other parts of bridge

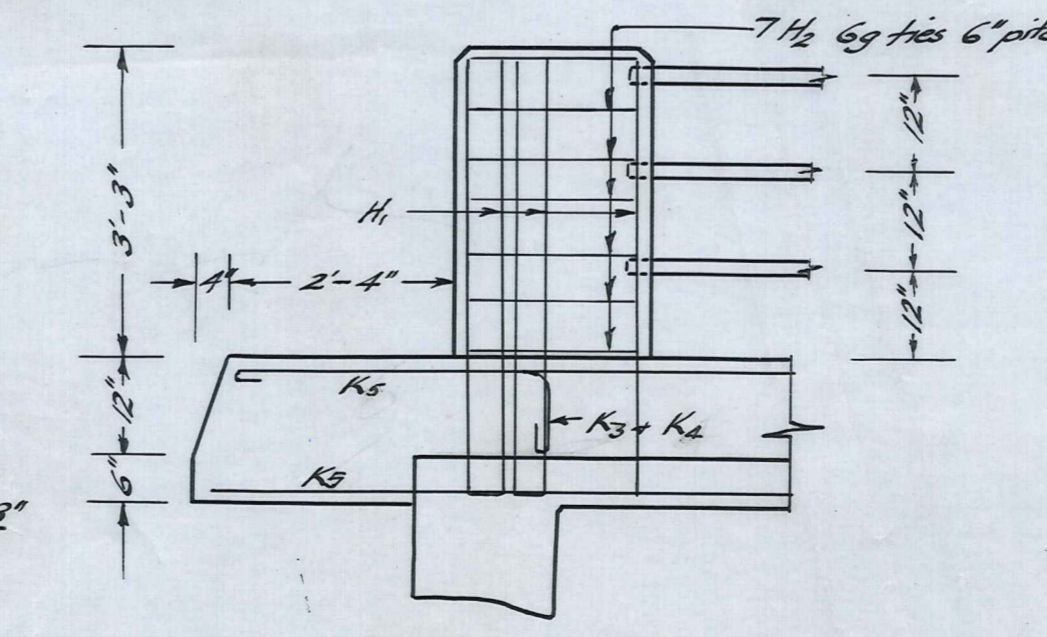


KERB ENDS & POST DETAIL

Scale: 1/2" to 1 ft.

3 3" x 1" wooden plugs to be placed in conc. and posts vertically at 18" c/c for attaching metal reflecting strips.

Pipes set into post 3"



HANDRAIL POST DETAIL

Scale: 1 in. to 1 ft.

