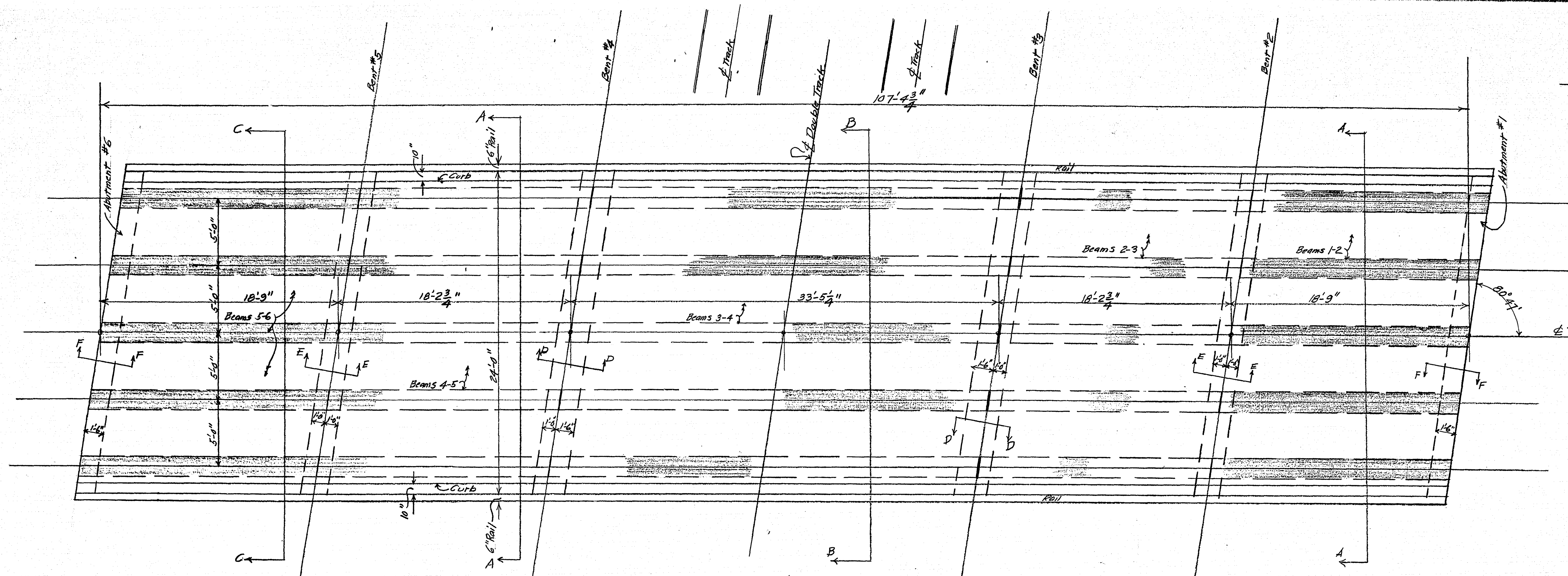
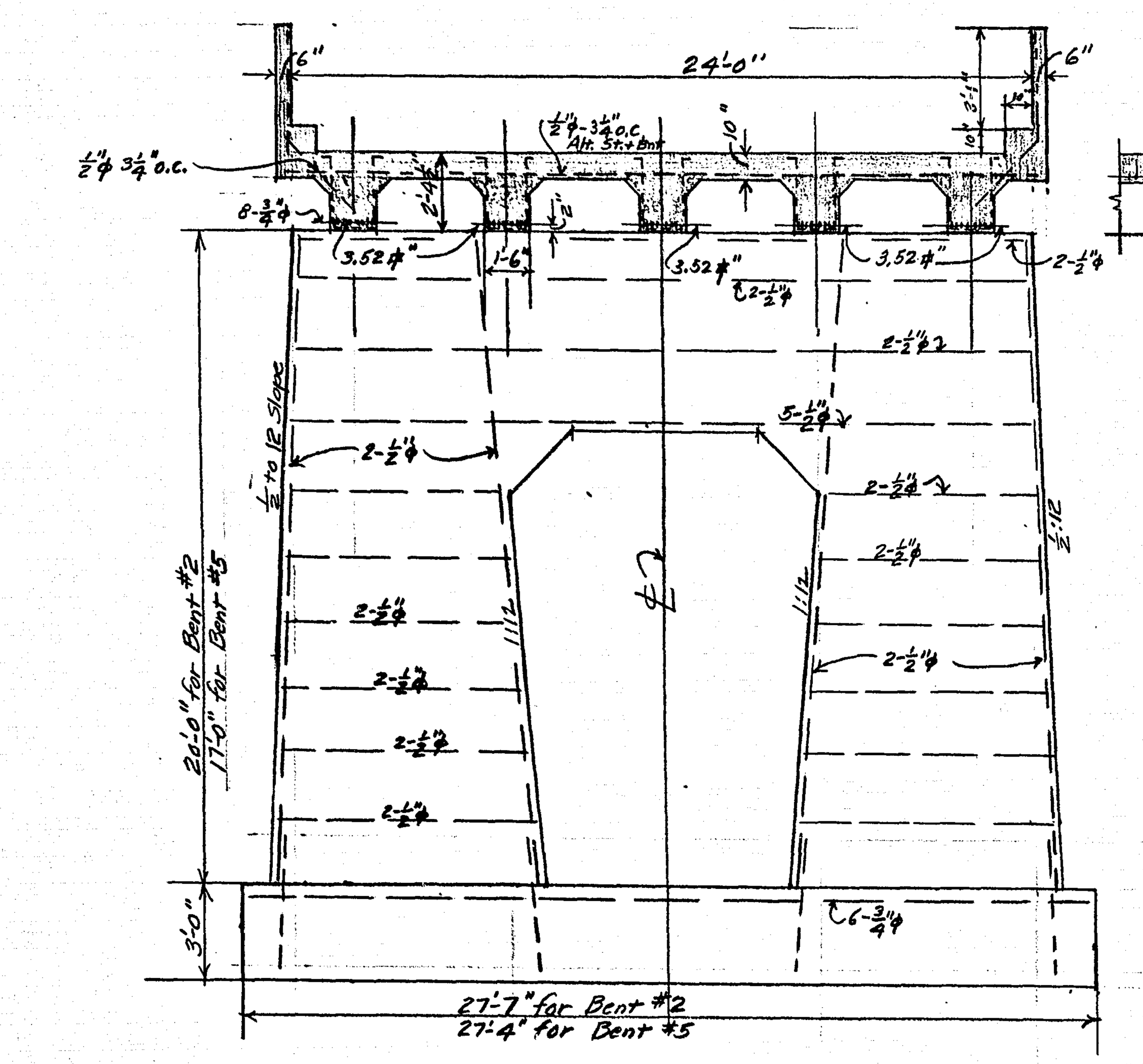
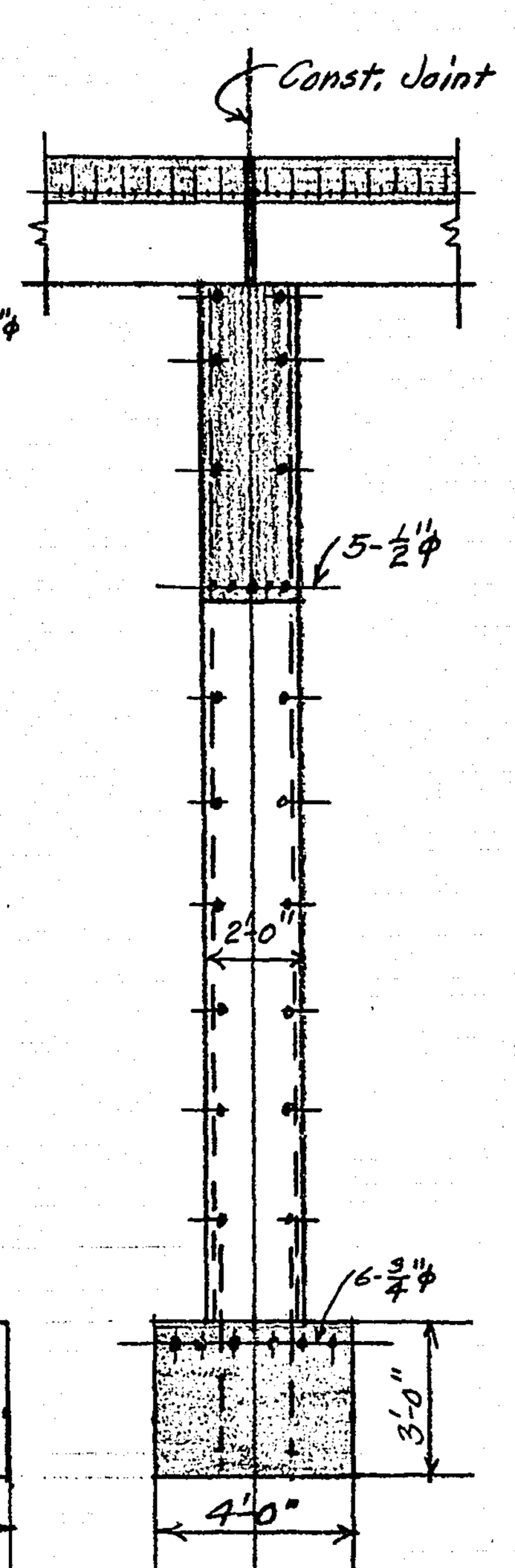


PLAN - SCALE 1/4"=1'-0"

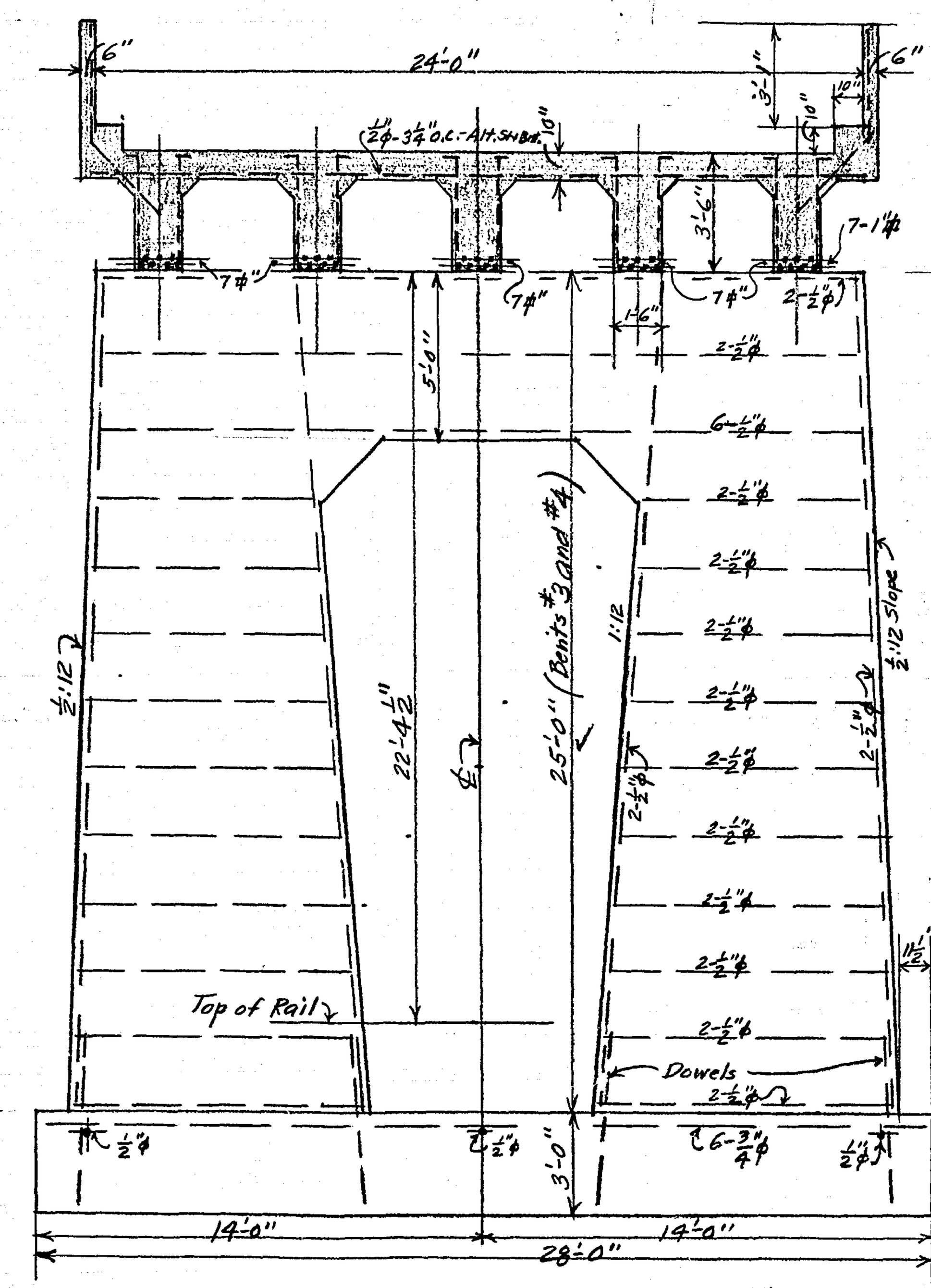
Note:- Figuring a Live Load of 100#/ϕ' and concrete at 150# per cubic foot, the load per square foot imposed on the soil by the footings of Abutments #1 and #6 is 1 Ton per Square Foot total live and dead loads.
The load per square foot imposed on the soil by the footings of Bents #2, #3, #4 and #5 amounts to 1.5 Tons per square Foot, total live and dead loads.



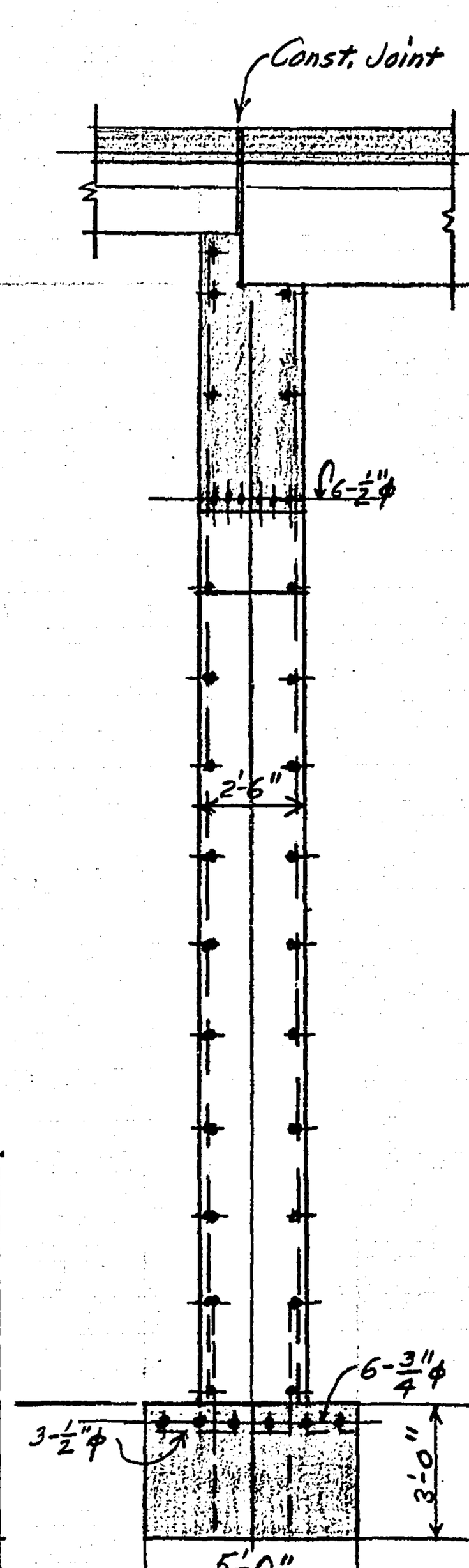
SECTION A-A - SCALE 1/4"=1'-0"
Showing Bent #2 — Bent #5 Similar as Noted



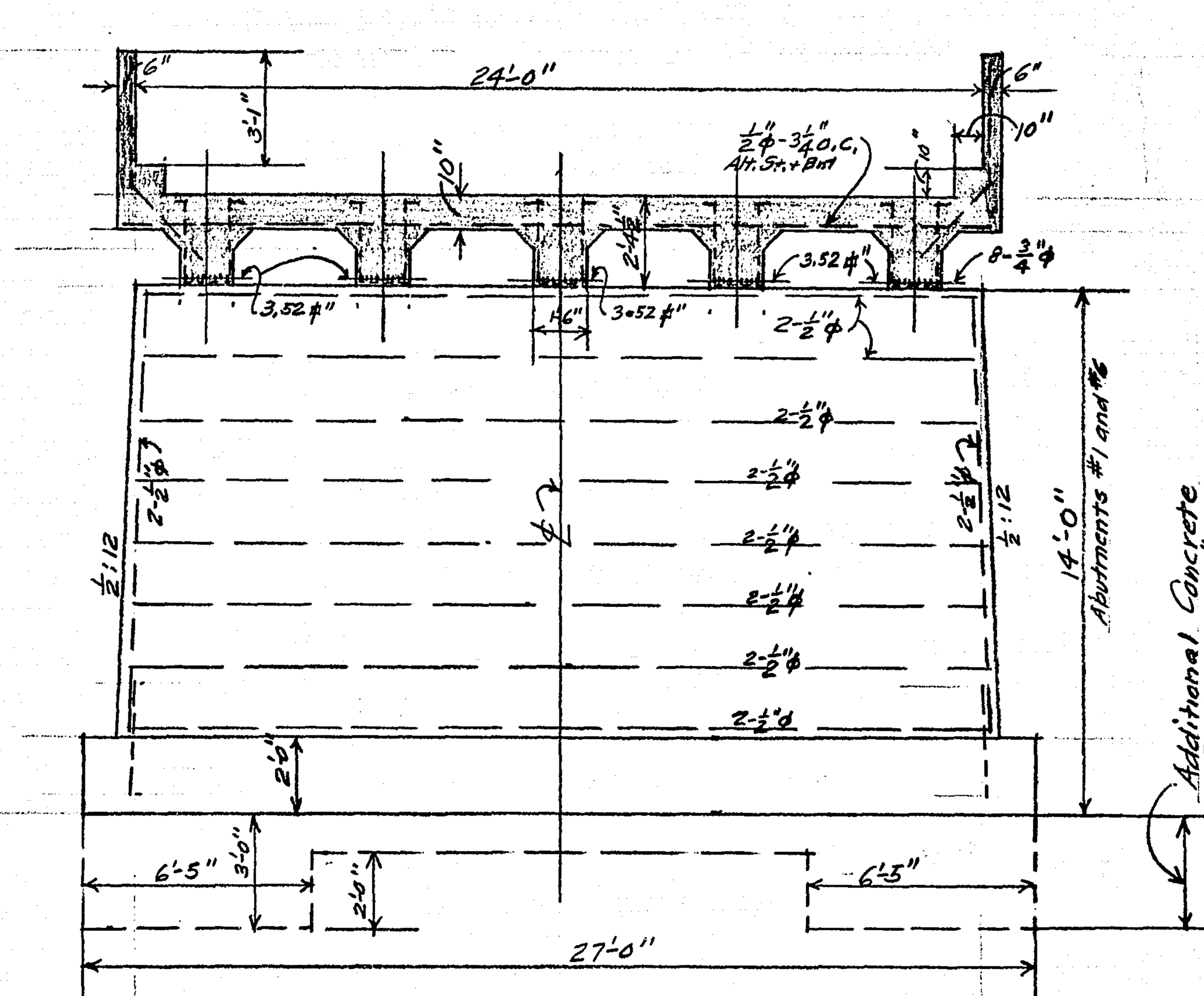
SECTION E-E
SCALE 1/4"=1'-0"



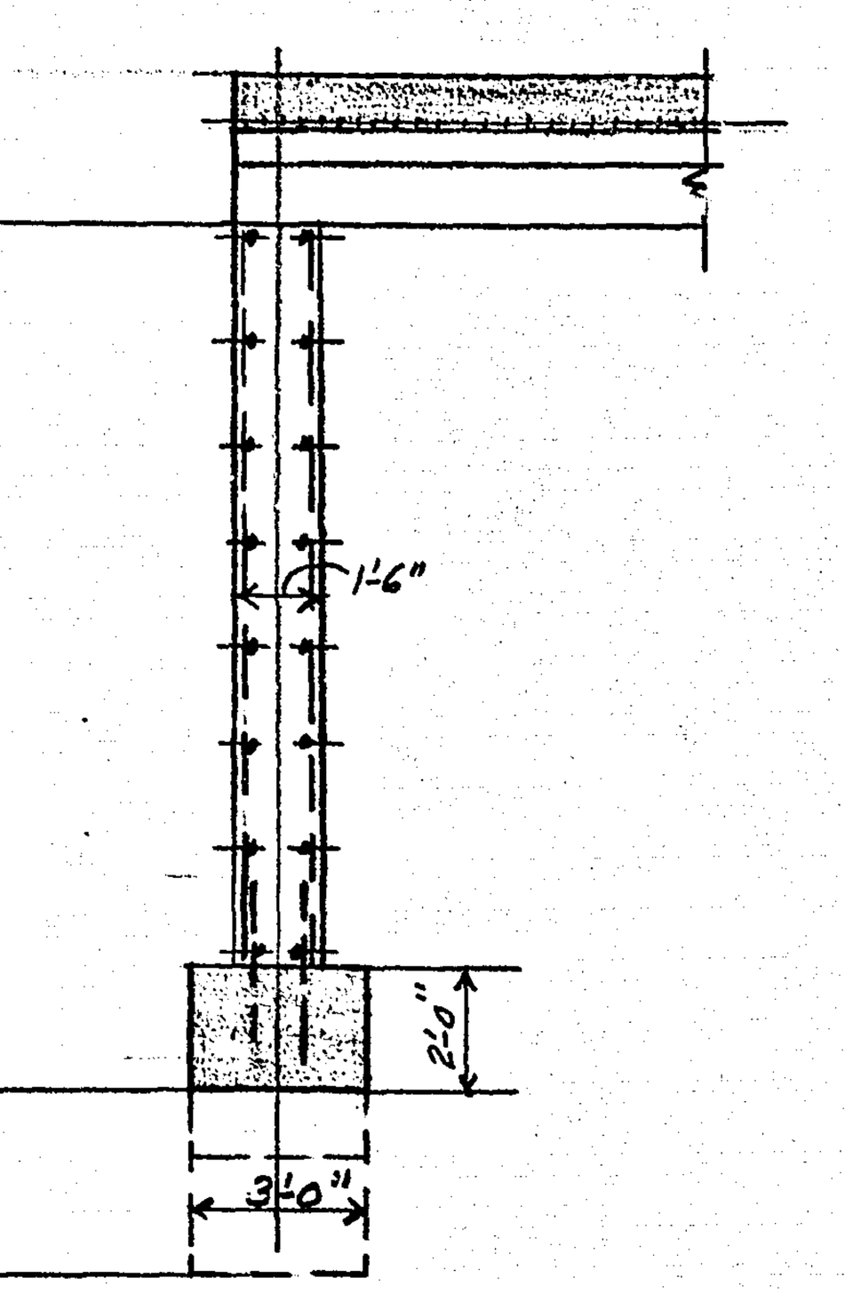
SECTION B-B - SCALE 1/4"=1'-0"
Showing Bent #4 - Bent #3 similar



SECTION D-D
SCALE 1/4"=1'-0"



SECTION C-C - SCALE 1/4"=1'-0"
Showing Abutments #1 and #6



SECTION F-F
SCALE 1/4"=1'-0"

Note:- Bridge covered by plans, sections and details on this sheet was designed by the Bridge Engineer's Office of the Northern Pacific Railway in the year 1919 and built in the same year. Thus as of 1958 it is foorty (40) years old. Examinations made in 1958 show it to be in perfect condition and suitable for many more years of service.

Note Re Reinforcement:-
Beams 1-2, 2-3, 4-5 and 5-6. 20 beams thus. Reinforced by 8-3/4"ϕ bars, 4 of which are straight and 4 of which are bent up for diagonal tension. 14-3/8"ϕ Stirrups. 18"x 28 1/2" Tee Beams. Simple Span.
Beams 3-4. 5 Beams thus. Reinforced by 7-1"ϕ bars, 4 of which are straight and 3 of which are bent up for diagonal tension. 22-1/2"ϕ Stirrups. 18"x 42" Tee Beams. Simple Span.
Slab. 10" thick reinforced across beams with 1/2"ϕ Bars 3 1/4" o.c. alt. straight and bent up at quarter points between beams. 1/2"ϕ temperature Bars running lengthwise, parallel to beams.
Footings, Bents and Abutments. See Details on this Sheet.

Note re Concrete:-
For Footings and Bents, 1-3-5 Mix.
For Beams and Slabs, 1-2-4 Mix

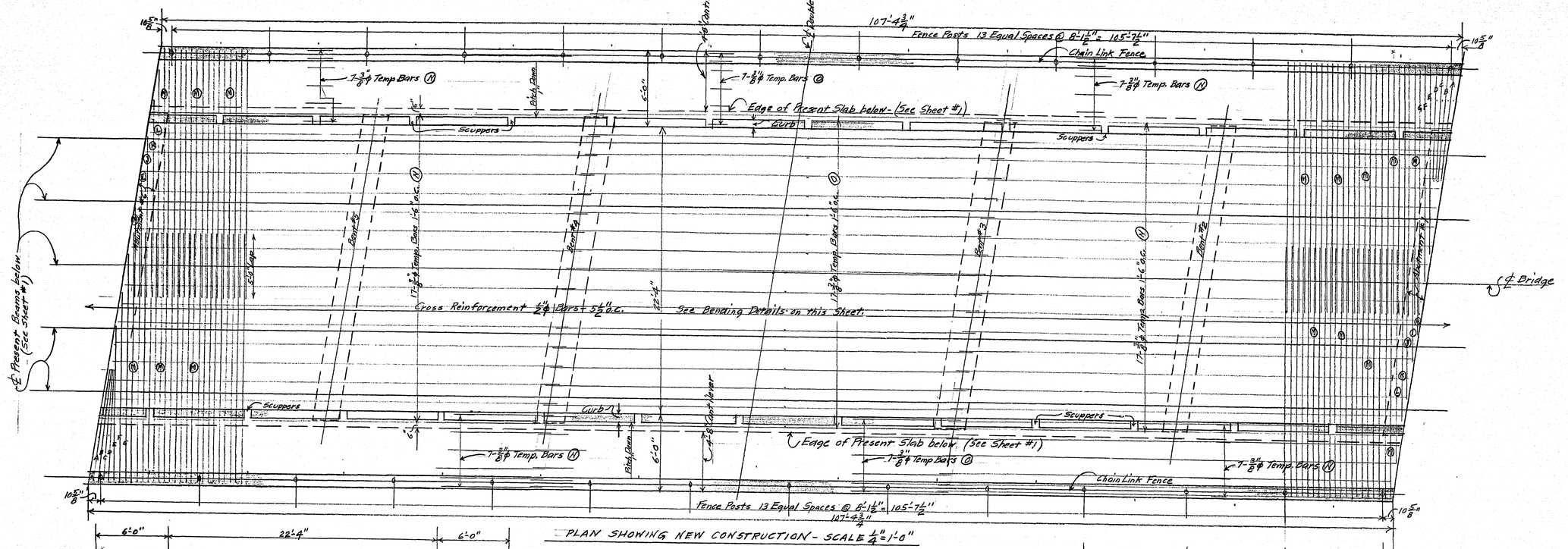
Basis of Calculations:- (1919)
20 Ton Tractor with 3/4 load on rear axle. Axles 10'-0" center to center or a live load of 100# per ϕ'. No impact.
Steel in tension 16000# per ϕ".
Concrete in Compression 600# per ϕ".
" " Bearing 400# per ϕ".
" " Shear 50# per ϕ".

Note: All Plans, Sections and Details on this Sheet show Present Construction of Bridge as of the Year 1958.

HIGHWAY BRIDGE

CARRYING COUNTY ROAD "C" OVER DOUBLE TRACKAGE OF THE NORTHERN PACIFIC RAILWAY, .7 MILE EAST OF S.T.H. #61.
Scales Noted Dec. 1958.
Office of County Engineer.
Harry S. Bronson
County Engineer, Del.

SECTION A-A



FENCE SPECIFICATIONS

Line Posts:- 1⅝" x 1⅜" H Section steel posts weighing at least 2.7# per lineal foot. Set 1'-0" into concrete.

Terminal Posts:- 2½" O.D. steel pipe weighing at least 3.65# per lineal foot. Set 1'-0" into concrete.

Top Rail:- 1⅝" O.D. steel pipe, weighing at least 2.28# per lineal foot.

Fabric:- #9 wire woven into a 2" chain link mesh. Top selvage knuckled, bottom barbed. Install #7 gauge coil spring wire laced into fabric at bottom for full length.

Fabric Ties:- #6 Gauge round aluminum. Install 6 to each 10'-0" of rail and 1 to each foot of post height.

Fittings:- At top of all posts install heavy malleable iron bullet type fittings for support of toprail.

Brace Assembly:- At 4 end panels, end posts to be braced horizontally, with 1⅜" O.D. steel pipe and adjustable truss rod.

Note:- All material to be hot dip galvanized before assembly.

Post Settings:- General Contractor will set 3½" diameter x 1'-0" long removal cores at all post locations before pouring concrete, so as to produce 3½" diameter holes, 1'-0" deep in concrete. Fence sub-contractor will then set posts in these holes and grout them in with "Par-Rok" fast setting grouting cement.

Manufacturer:- Fence to meet standard specifications of the Cyclone Fence Dept. of the American Steel and Wire Division of the U.S. Steel Corporation or specifications of other manufacturers producing material of equal quality as approved by the County Engineer.

Bar List for Required Straight Bars

Bar Mark	Size	Length	Number Required	Notes
H	½"ϕ	7'-0"	2	
I	½"ϕ	9'-0"	2	
J	½"ϕ	12'-0"	2	
K	½"ϕ	15'-0"	2	
L	½"ϕ	17'-0"	2	
N	⅞"ϕ	37'-6"	62	Temperature Bars
O	⅞"ϕ	35'-0"	31	" "

Note:- All Plans, Sections and Details on this Sheet #2 Show Proposed Work to be Done on Bridge covered in Sheet #1.