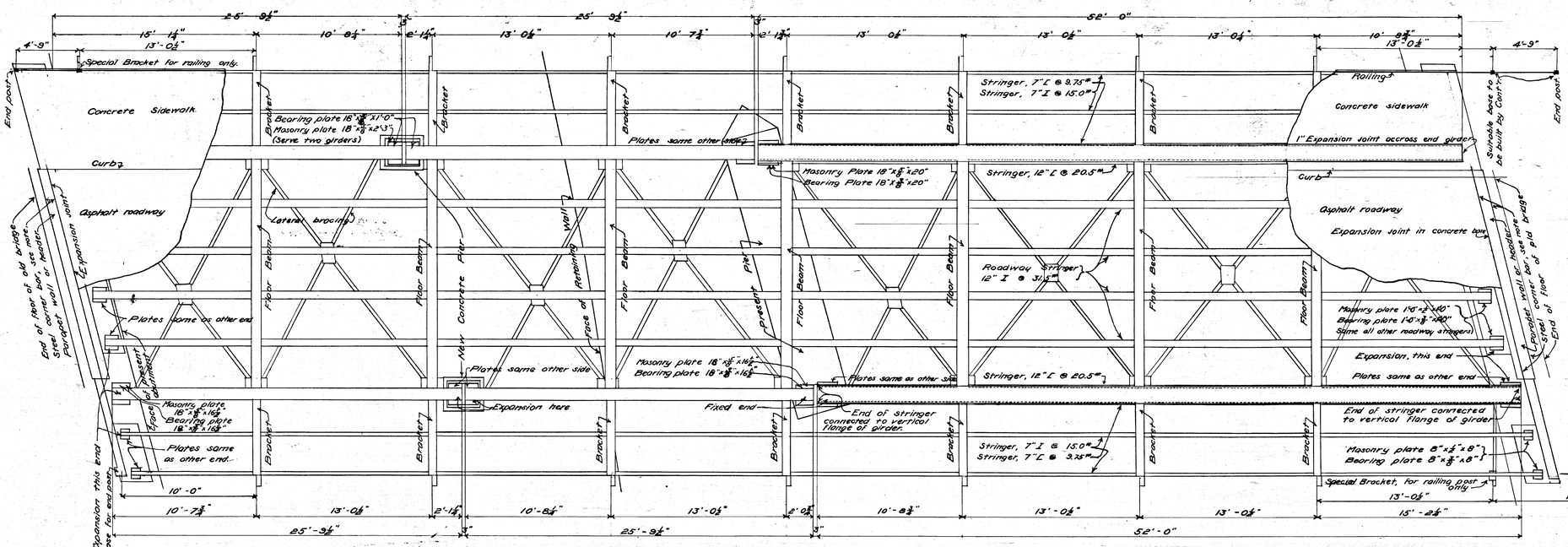
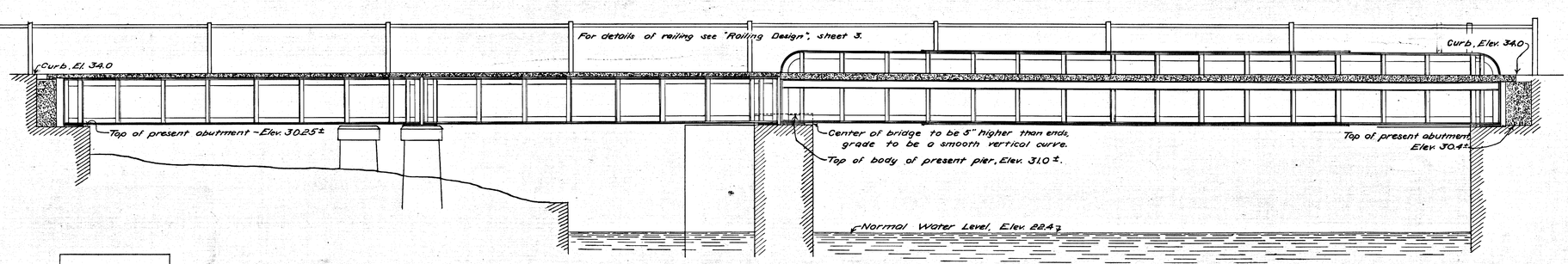
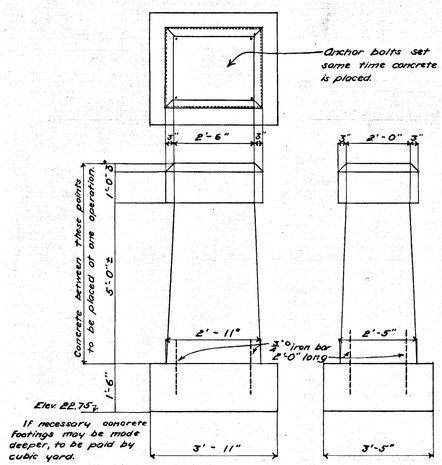


Plan
Sheet Asphalt Roadway, Concrete Sidewalks.

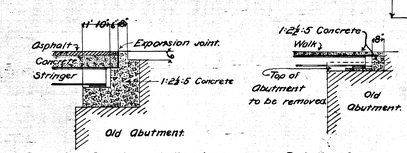


Elevation
Section 1' East of East Girders.
Sheet Asphalt Roadway, Concrete Sidewalks.



Detail:- New Concrete Pier.
To be made of 1:2½:5 Concrete. Scale ½"=1'-0"
Two such piers required.
For all designs.

Oct. 18, 1911. Board of Park Commissioners adopted Design No. 1



Detail - Section at Roadway Stringer.

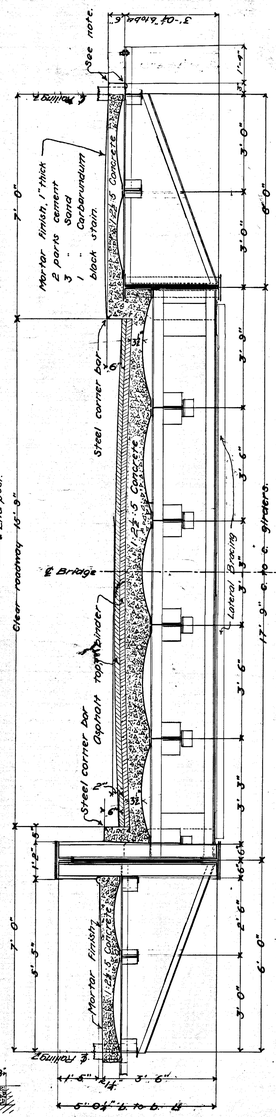
Detail - Section at Sidewalk Stringer.

Notes:- A steel corner bar anchored into concrete, satisfactory to Engineer, will be used at the exposed edges of concrete curbs and parapet walls. "Wainwright" patented curb corner bar will be satisfactory, or its equivalent.

The outside upper corner of concrete sidewalks will be rounded, R=⅜", or beveled. The outside lower corner will be so formed that water will drip directly off rather than run along steel work.

Contractor will make satisfactory arrangement to drain roadway gutters.

Shop paint - 1 coat "Sterling Black Iron Enamel"
Field paint - 1 coat "Sterling Black Iron Enamel"



Sections of bridge with asphalt roadway and concrete walks.
Scale ½"=1'-0".

Design No. 3.
Bridge to be symmetrical about ℄ except as shown on plan.

Composition of Members.

Floor Beam
Web ¼"x20"
4 ∠s 4"x4"x⅜"
Stringer connections 2-6"x4"x⅜" long
Shell ∠s 4"x3"x⅜"

Bracket
Web ¼" thick
Top ∠s 3"x2½"x⅜"
Bottom ∠s 3"x3"x⅜"

Buckled Plates
⅜" thick.

Lateral Bracing
3"x2½"x⅜" ∠s
⅜" plates
4 rivets at each connection

25'-3" Girders
Web 3'-0"x⅜"
4 ∠s 4"x3"x⅜"
2 plates 10"x⅜" continuous
Stiffeners 3"x3"x⅜" ∠s over fillers.
Maximum flange stress 11,000#

52' Girder
Web 5'-0"x⅜"
4 ∠s 6"x6"x⅜"
2 plates 14"x⅜" continuous
2 plates 14"x⅜", 33" long
Stiffeners 3"x3"x⅜" ∠s over fillers.
Maximum flange stress 16,000#

Stringers
Roadway 12" I's @ 31.5#
12" I's @ 20.5#
Sidewalk 7" I's @ 15.0#
7" I's @ 9.75#

City of Hartford
Department of Engineering
Plan of Steel Bridge
to replace present Wooden Bridge.
over Park River in Bushnell Park.
Sheet 2 of 3 Sheets.

Design for Bridge with Asphalt Roadway and Concrete Sidewalks, Design No. 3.
Design for new Concrete Piers, for all designs.

October 9, 1911 Scale ½"=1'-0"

Roger N. Clark
City Engineer.

Day Book No. 02744
Drawer 66 Sheet 7

G.W.