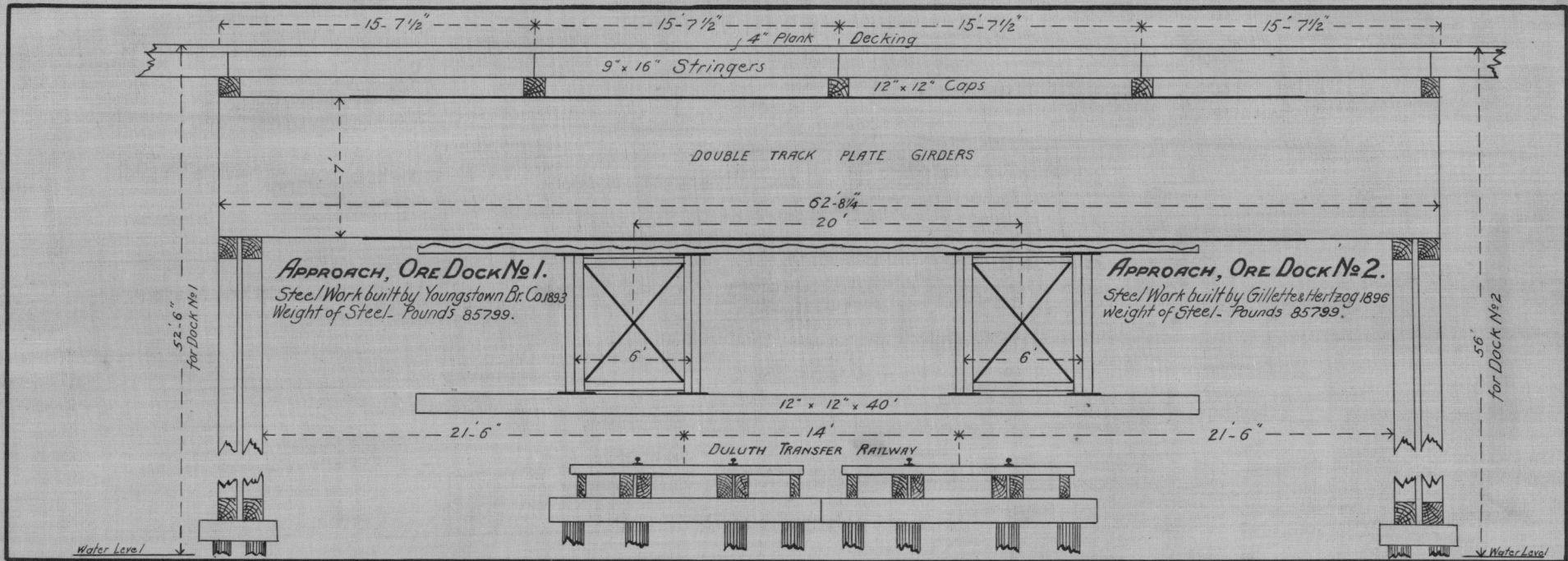


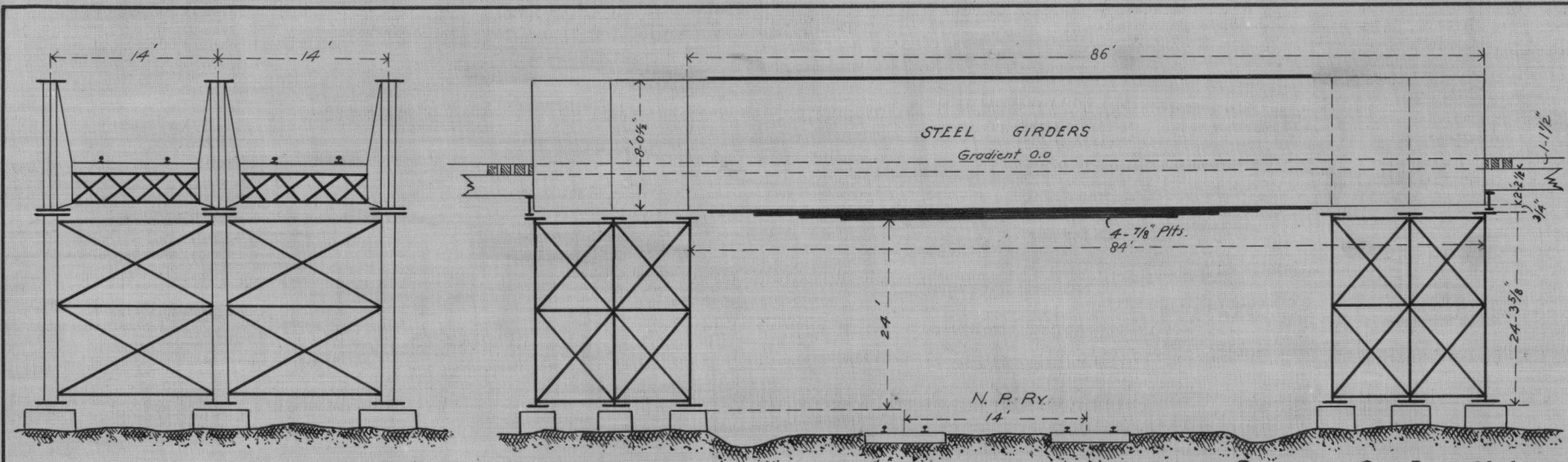
Approved *Mauillonage*
First Vice President

1904

Approved *H. L. Dresser*
Chief Engineer.

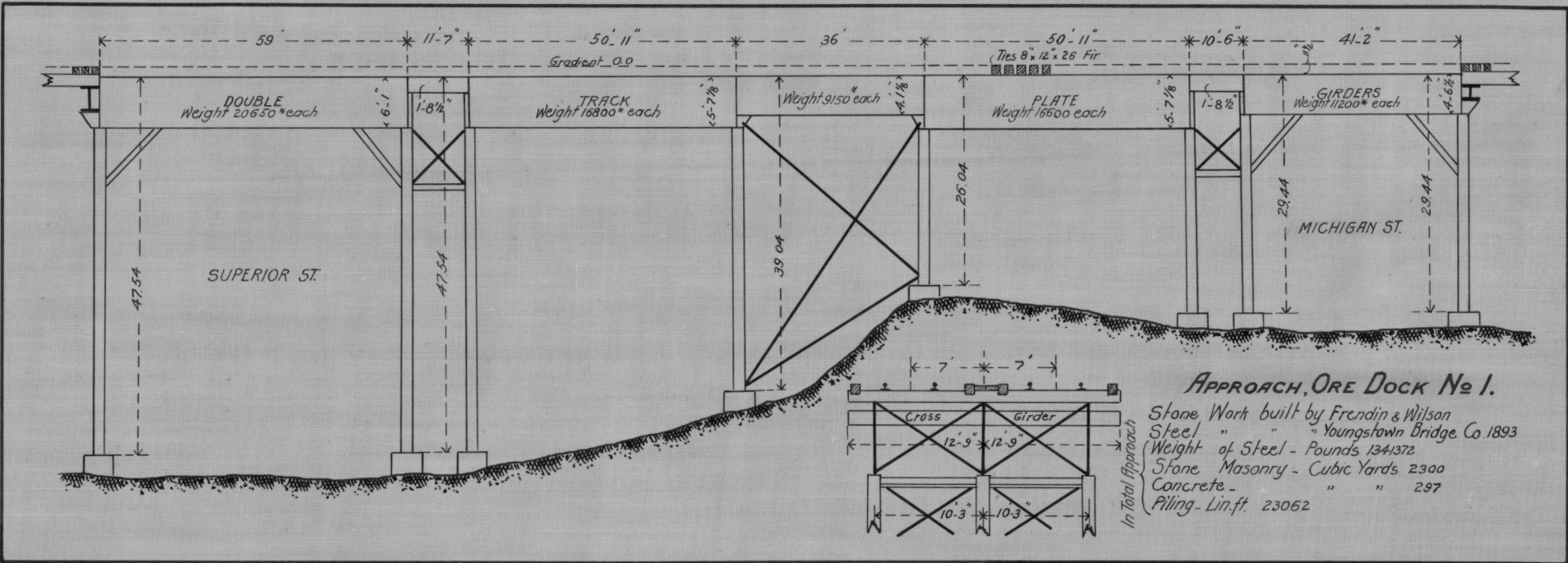
149-129





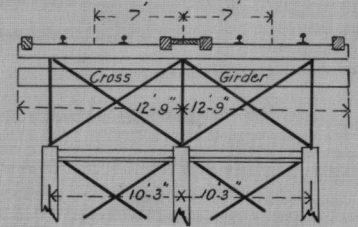
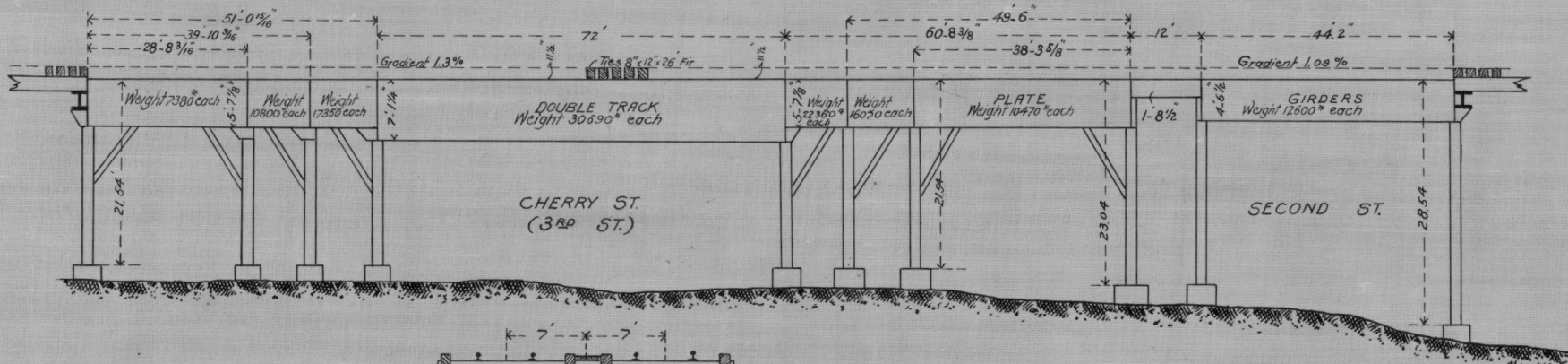
APPROACH ORE DOCK No. 1.
 Stone Work in small Piers built by Freuden & Wilson
 Steel " built by Youngstown Bridge Co. 1893
 Weight of Steel - Pounds 229200
 Stone Masonry - Cubic Yards 2300
 Concrete " " 297
 Piling - Lin. ft. 23062

In To Approach



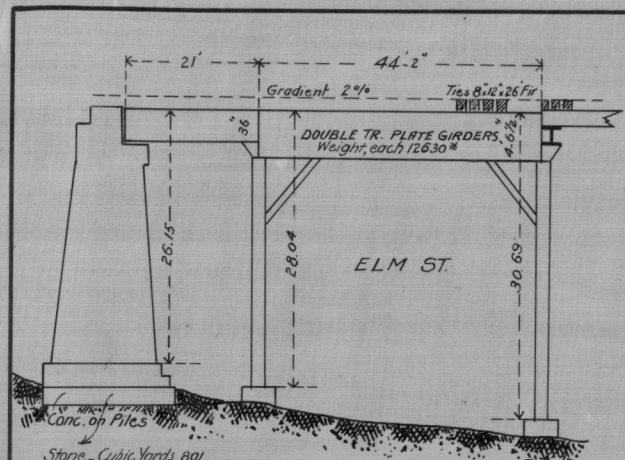
APPROACH, ORE DOCK No 1.

Stone Work built by Frendin & Wilson
 Steel " " " Youngstown Bridge Co 1893
 Weight of Steel - Pounds 1341372
 Stone Masonry - Cubic Yards 2300
 Concrete - " " 297
 Piling - Lin.ft. 23062

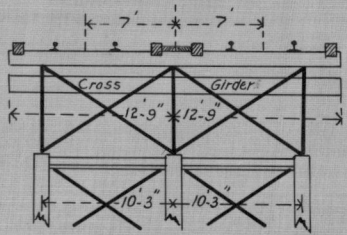
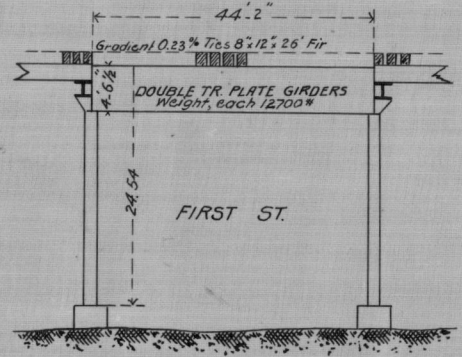
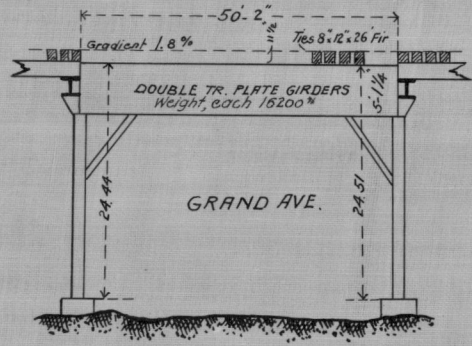


APPROACH, ORE DOCK No 1.

Stone Work built by Frendin & Wilson
 Steel " Youngstown Bridge Co. 1893
 Weight of Steel - Pounds 1341372
 Stone Masonry - Cubic Yards. 2300
 Concrete - " " 297
 Piling - Lin. ft. 23062
In total Approach



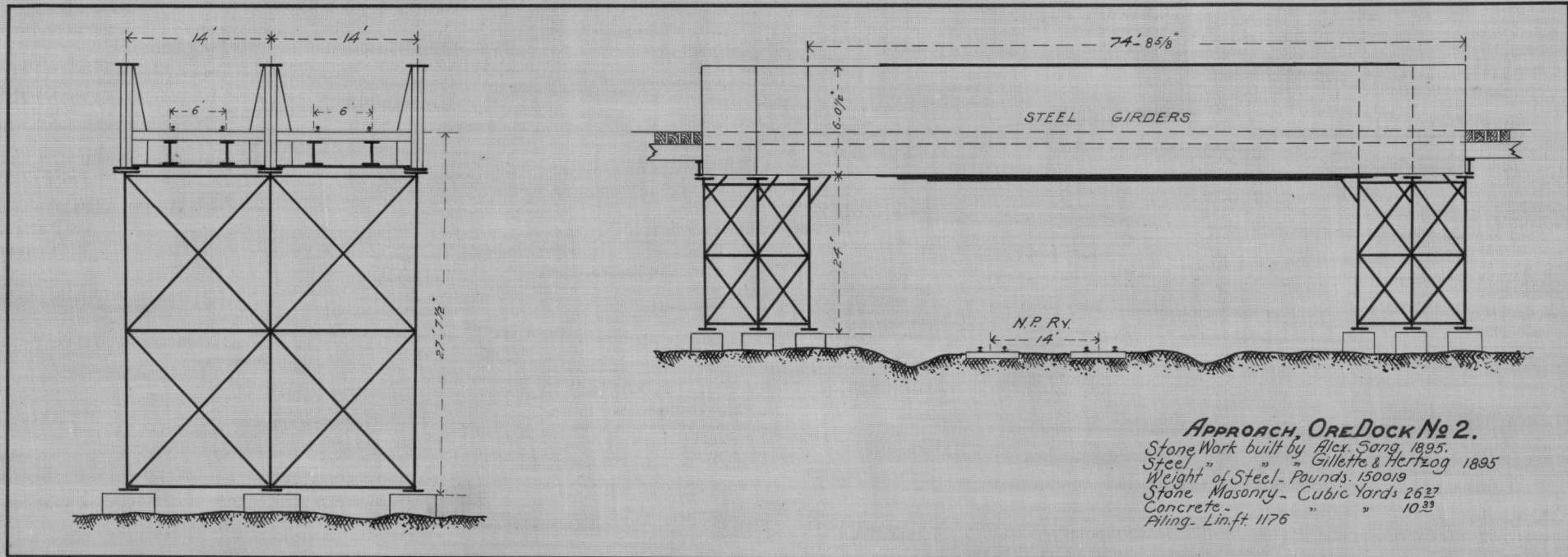
Stone - Cubic Yards. 801
 Concrete " 106
 Piling - Lin ft. 4802
 Built by McLead & Smith

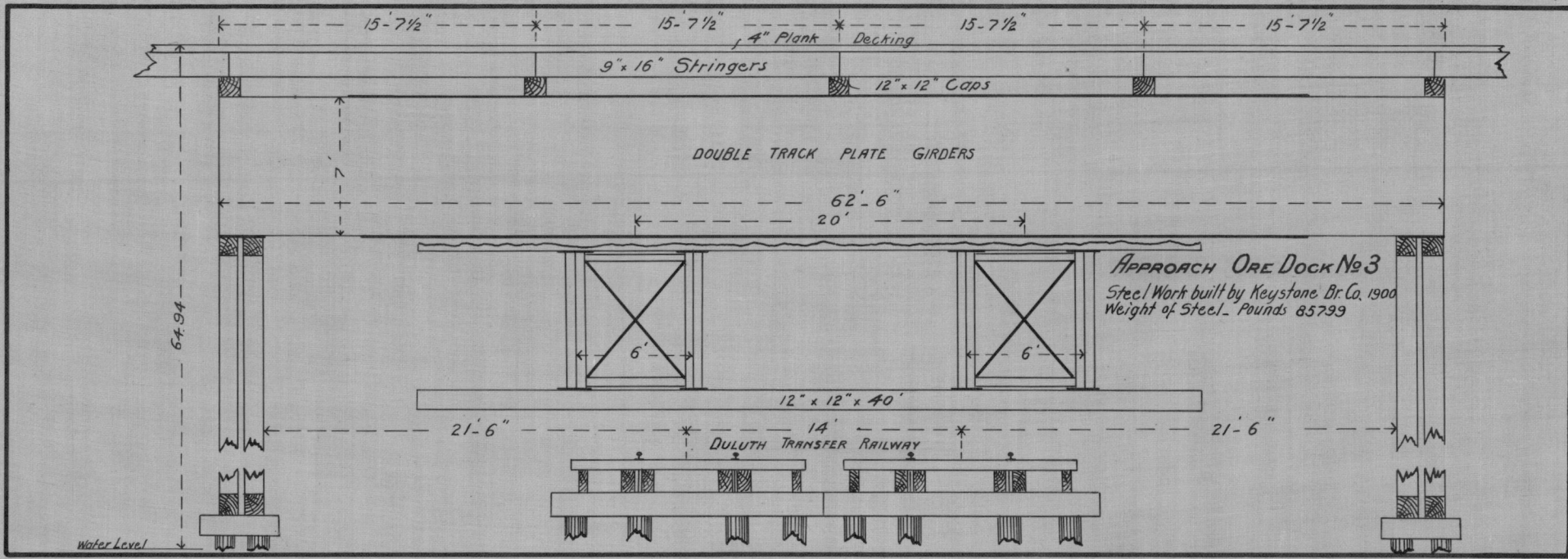


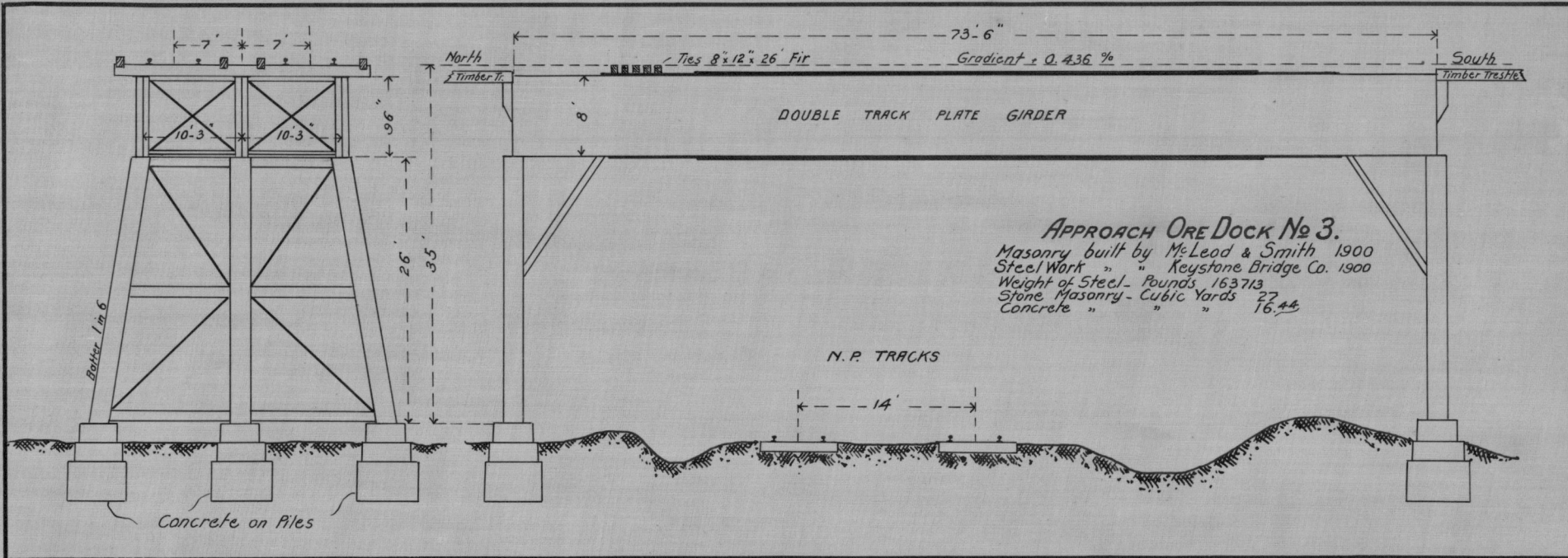
APPROACH, ORE DOCK No. 1.

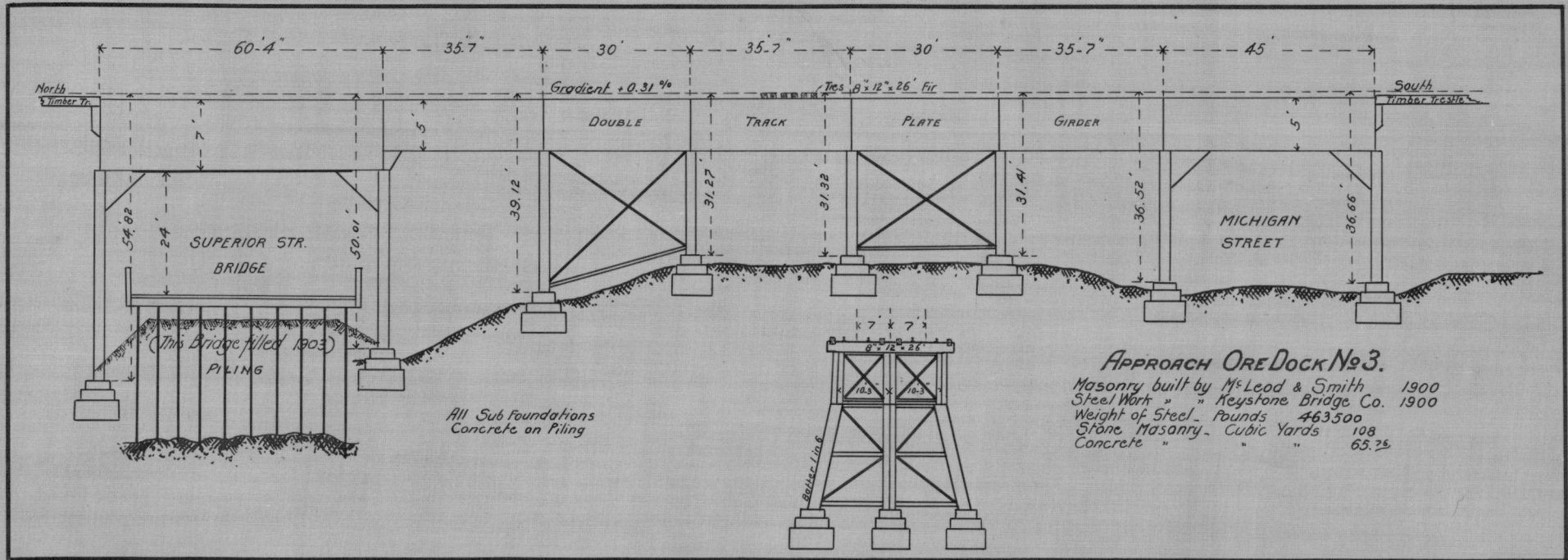
Stone Work in small Piers built by Freuden & Wilson
 Steel " built by Youngstown Bridge Co. 1893
 Weight of Steel - Pounds 1341372
 Stone Masonry - Cubic Yards 2300
 Concrete - " 297
 Piling - Lin ft. 23062

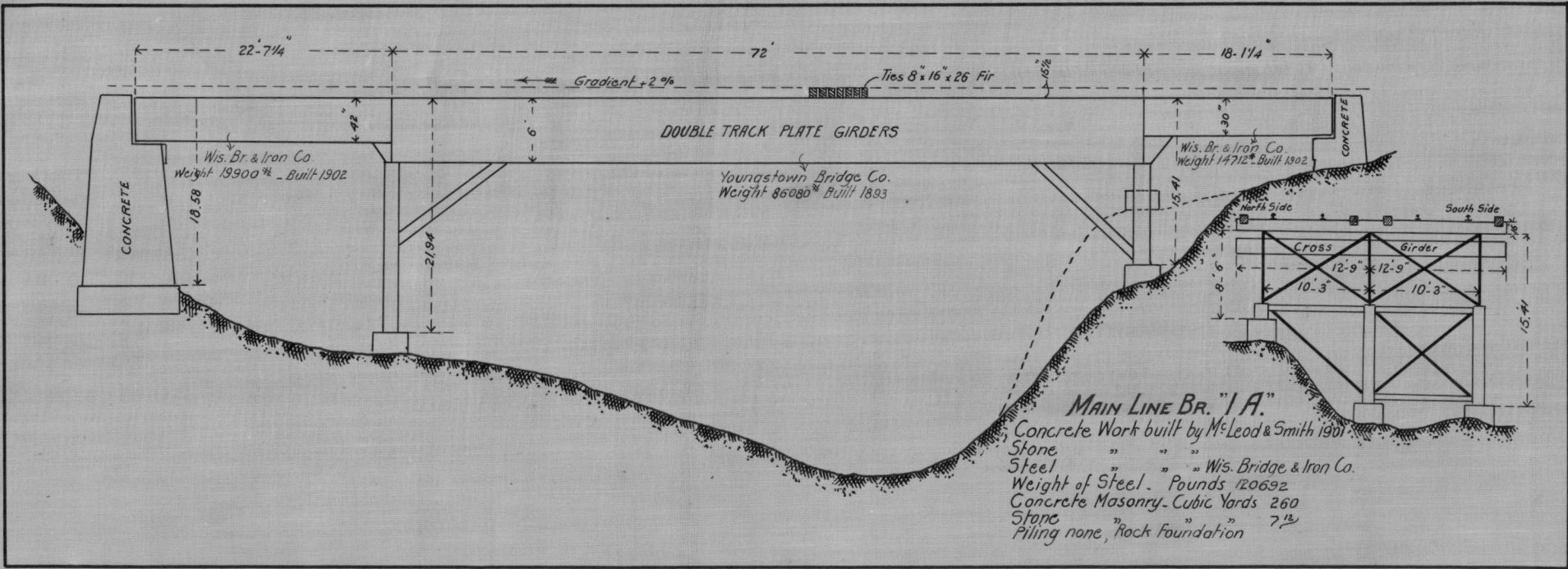
In Total Approach



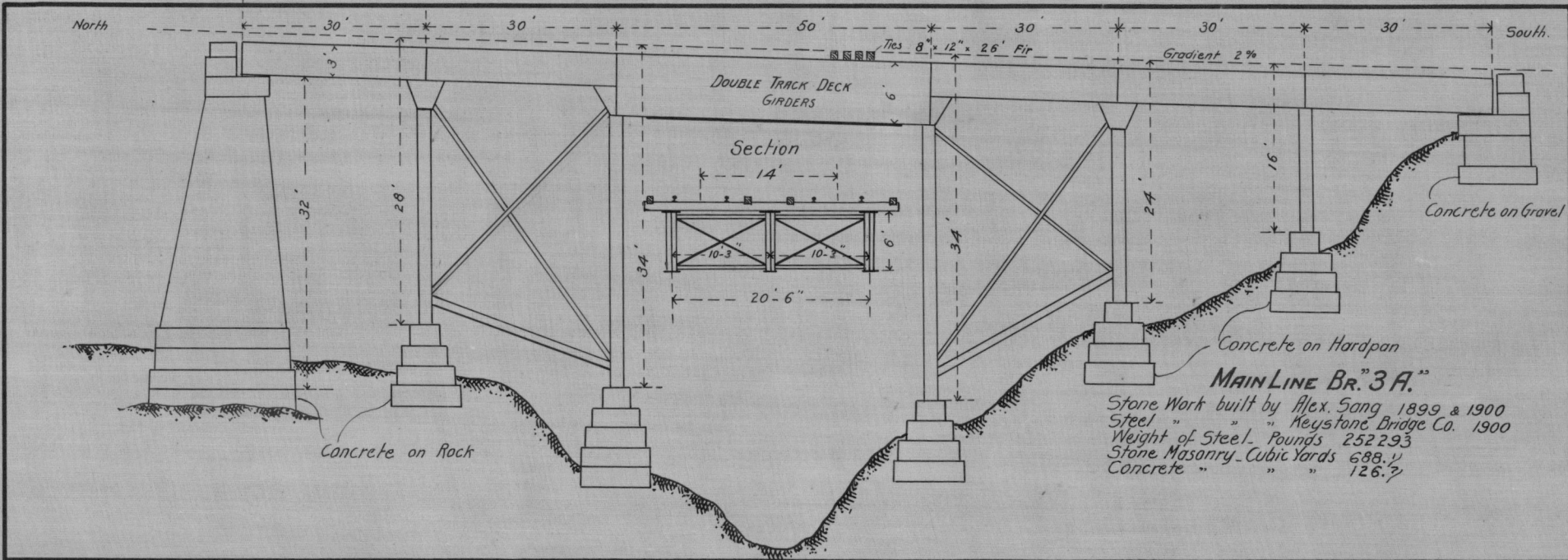


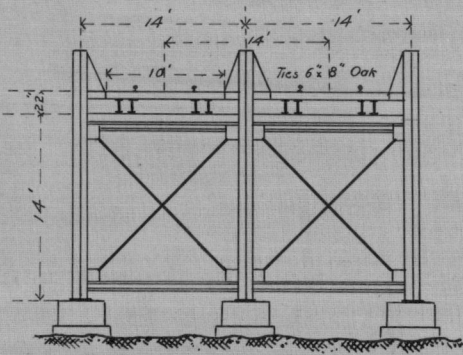






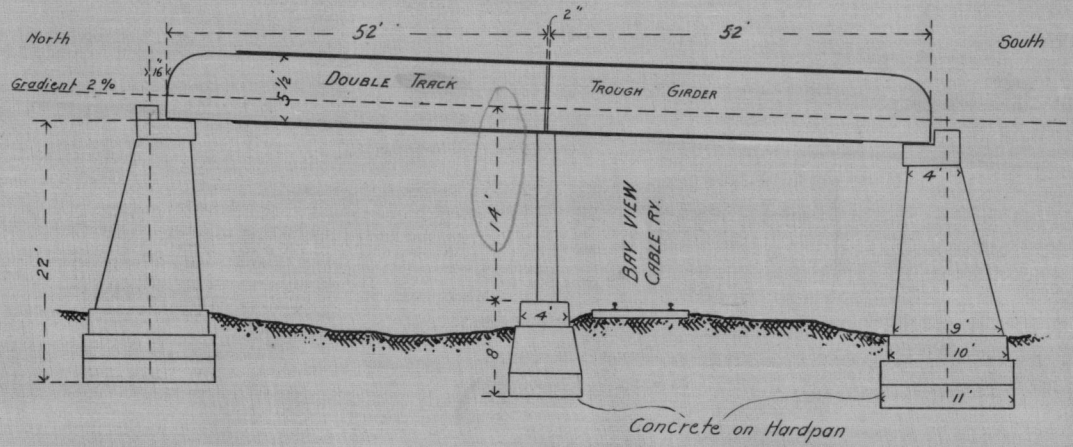
MAIN LINE BR. "I A."
 Concrete Work built by McLeod & Smith 1901
 Stone " " " " " "
 Steel " " " " Wis. Bridge & Iron Co.
 Weight of Steel " Pounds 120692
 Concrete Masonry- Cubic Yards 260
 Stone " " " " 7 1/2
 Piling none, "Rock Foundation"

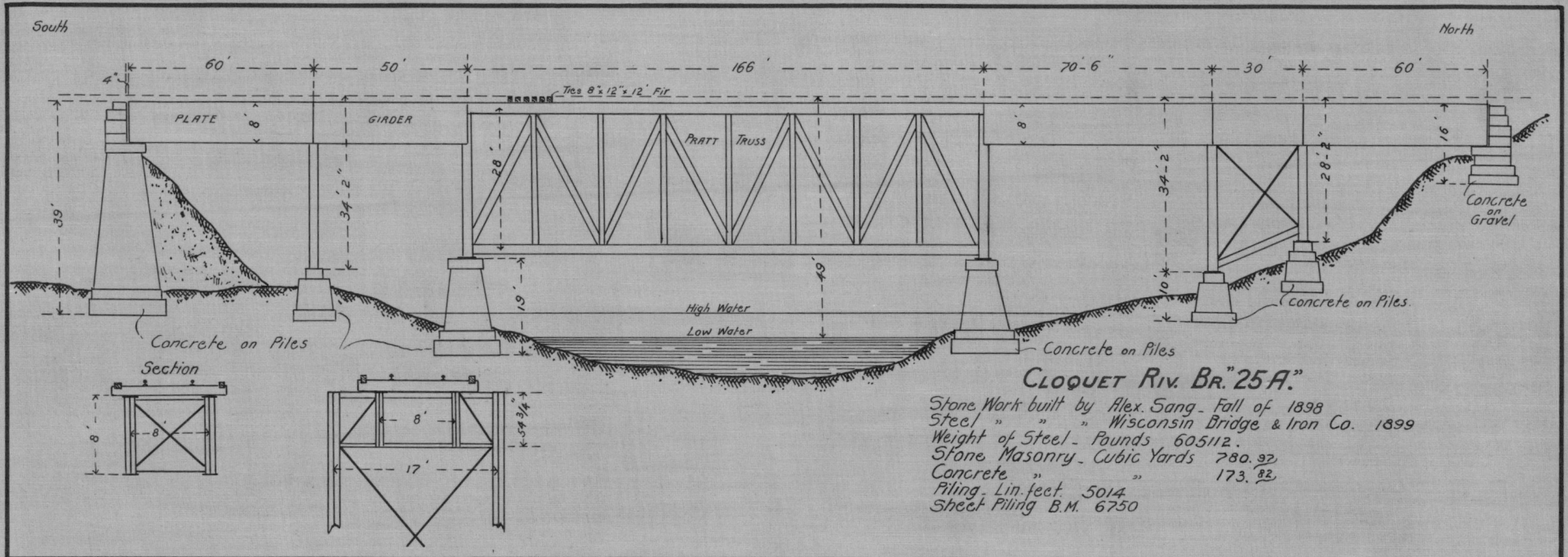




MAIN LINE BR. "3 B."

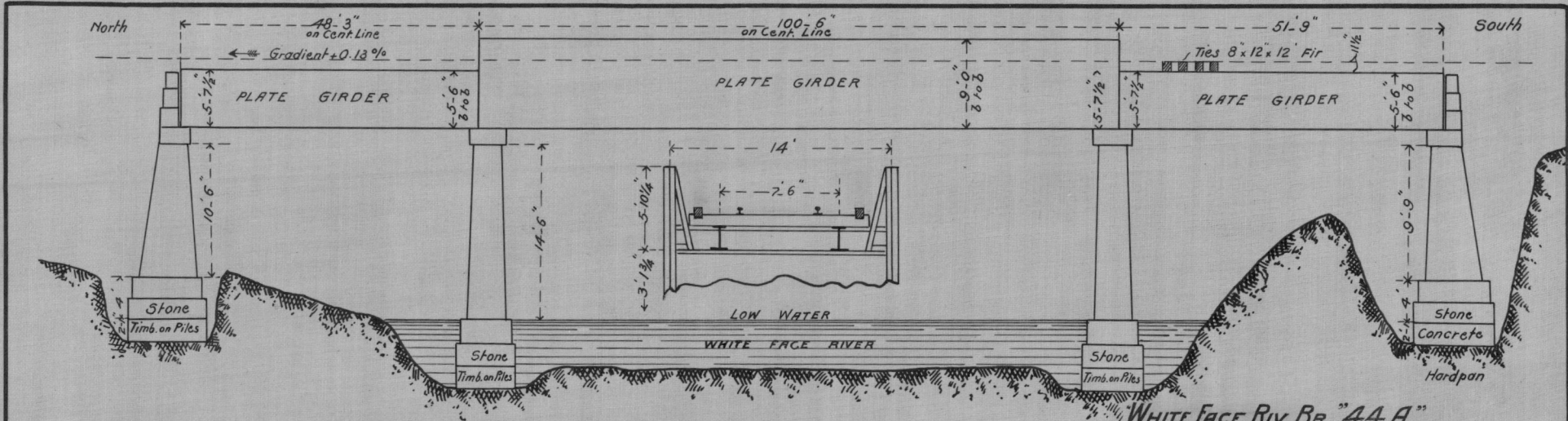
Stone Work built by McLeod, Campbell & Smith 1898
 Steel " " Wisconsin Bridge & Iron Co. 1898
 Weight of Steel - Pounds 192350
 Stone Masonry - Cubic Yards 831.50
 Concrete " " 124.78



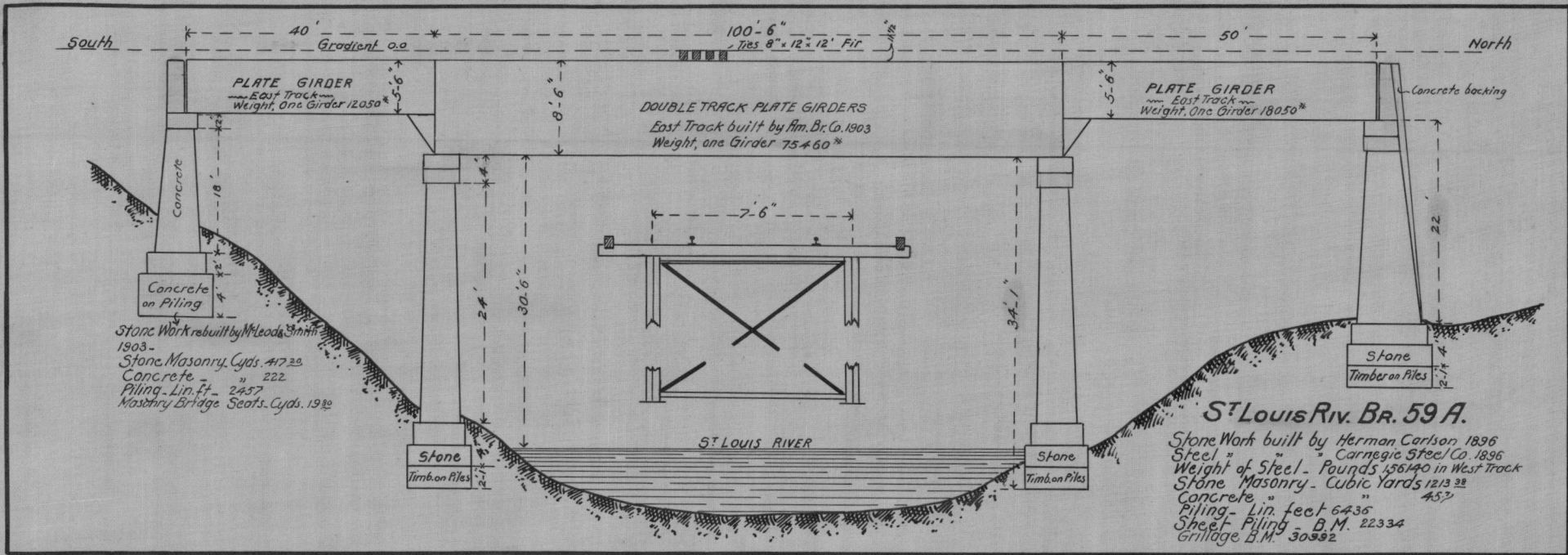


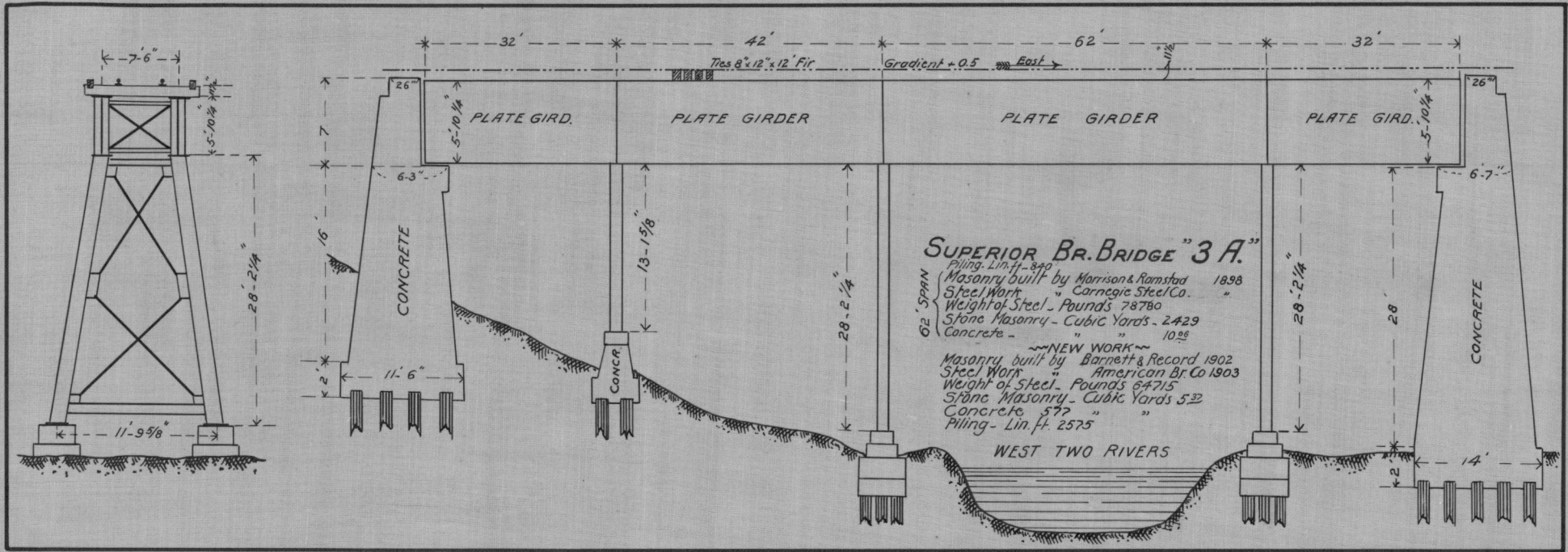
CLOQUET RIV. BR. "25A."

Stone Work built by Alex. Sang - Fall of 1898
 Steel " " " Wisconsin Bridge & Iron Co. 1899
 Weight of Steel - Pounds 605112.
 Stone Masonry - Cubic Yards 780.⁹²
 Concrete " " 173.⁸²
 Piling - Lin. feet. 5014
 Sheet Piling B.M. 6750



"WHITE FACE RIV. BR." 44 A."
 Stone Work built by Waterworth & Fee 1898
 Steel " " Carnegie Steel Co. "
 Weight of Steel - Pounds 21815
 Stone Masonry - Cubic Yards 956
 Piling - Lin. feet 3654
 Sheet Piling B.M.
 Grillage B.M. 23738
 Concrete - Cubic Yards 121

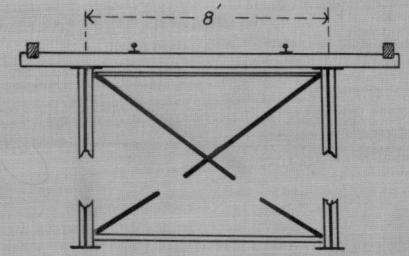
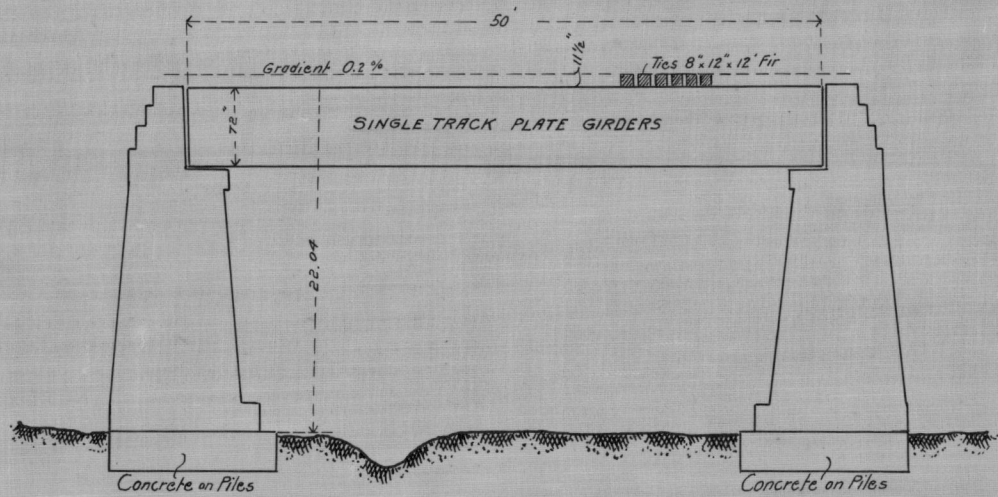




SUPERIOR BR. BRIDGE "3 A."

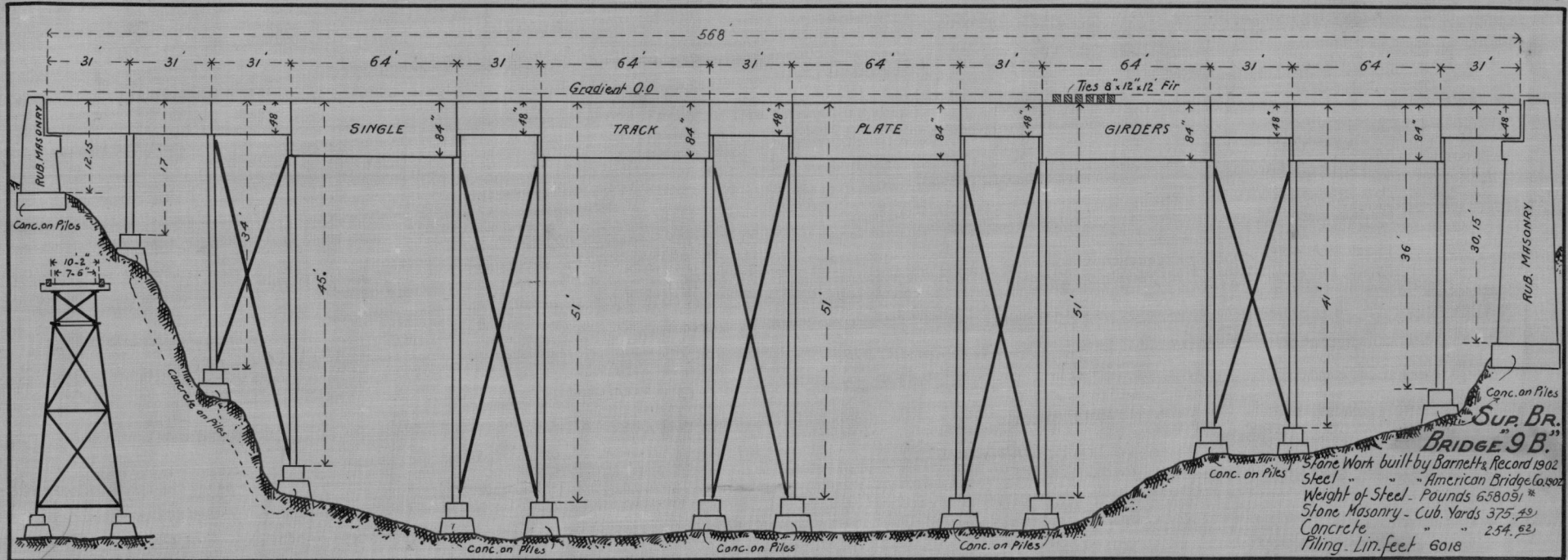
Piling - Lin. ft. 840
 Masonry built by Morrison & Ramstad 1898
 Steel Work " Carnegie Steel Co. "
 Weight of Steel - Pounds 78780
 Stone Masonry - Cubic Yards - 2429
 Concrete - " " 10.98
 ---NEW WORK---
 Masonry built by Barnett & Record 1902
 Steel Work " American Br. Co 1903
 Weight of Steel - Pounds 64715
 Stone Masonry - Cubic Yards 5.32
 Concrete " " 577
 Piling - Lin. ft. 2575

WEST TWO RIVERS



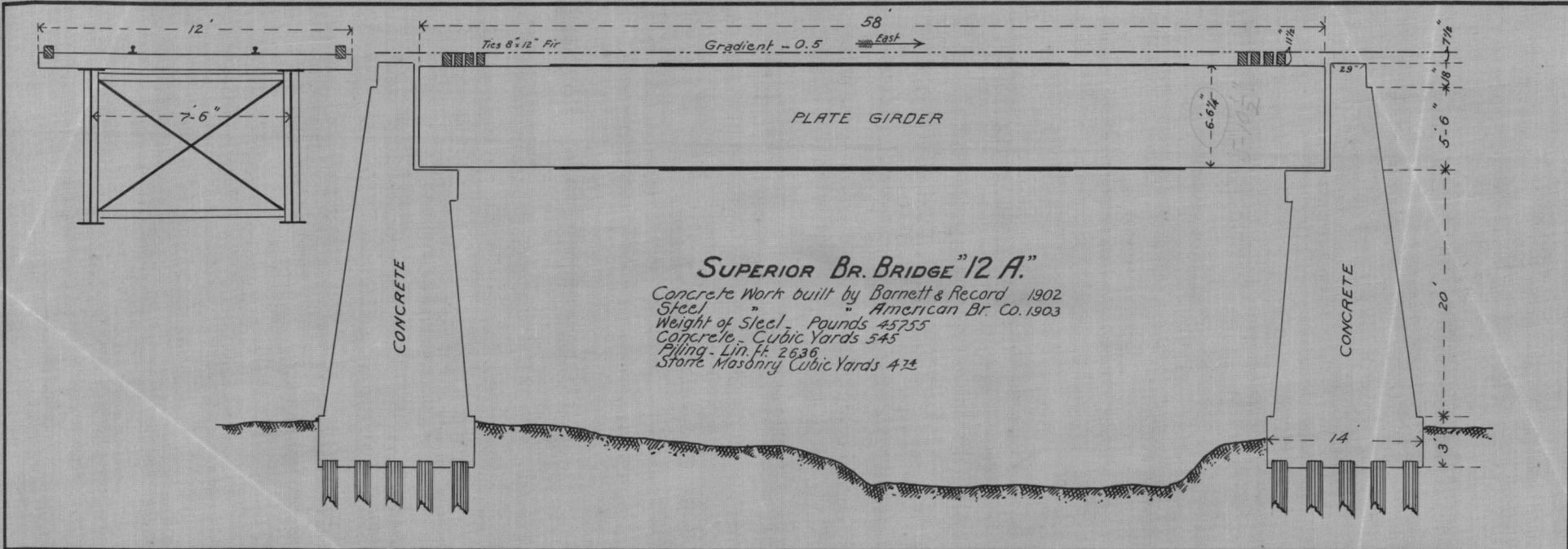
SUPERIOR BR. BRIDGE "7A."

Stone Work built by McLeod & Smith 1901
 Steel " " " Wisconsin Br. & Iron Comp. 1902
 Weight of Steel - Pounds 37499
 Stone Masonry - Cubic Yards 500.2
 Piling Lin. feet 4256
 Concrete - Cubic Yards 142



SUP. BR. BRIDGE "9 B."
 Stone Work built by Barnett & Record 1902
 Steel " " American Bridge Co. 1902
 Weight of Steel - Pounds 658091
 Stone Masonry - Cub. Yards 375.49
 Concrete " " 254.63
 Piling - Lin. feet 6018

22' 10" ¹³/₁₆"



SUPERIOR BR. BRIDGE "12 A."

Concrete Work built by Barnett & Record 1902
 Steel " " American Br. Co. 1903
 Weight of Steel - Pounds 45755
 Concrete - Cubic Yards 545
 Piling - Lin. Ft. 2636
 Stone Masonry Cubic Yards 474

CONCRETE

CONCRETE

PLATE GIRDER

Ties 8"x12" Fir

Gradient - 0.5

58'

East

7'-6"

12'

6'-6"

1 1/2'

18"

5'-6"

20'

14'

3'

7 1/2"

14'

3'