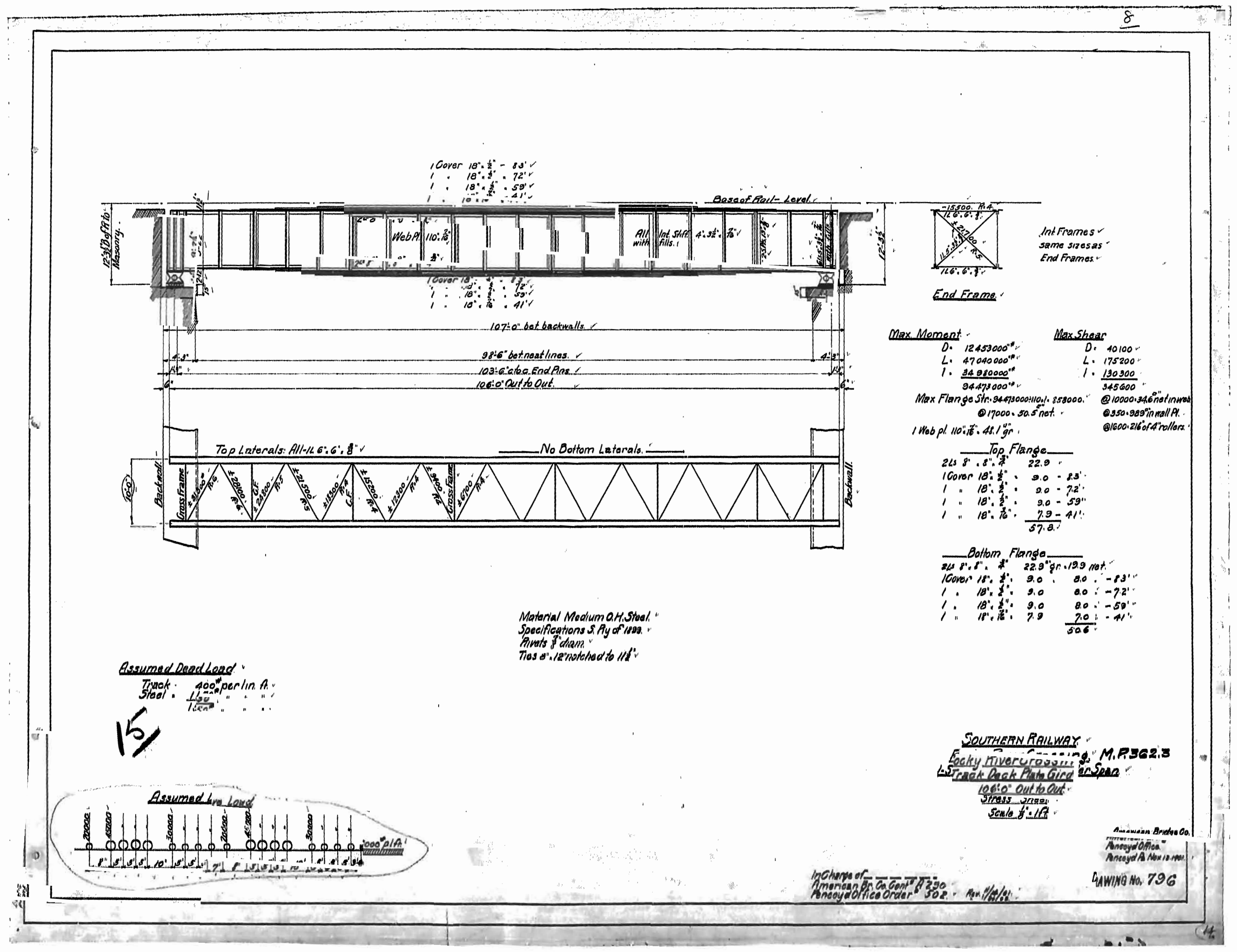
8
1 Cover 18" x 1/2" - 83'
1 " 18" x 1/2" - 72'
1 " 18" x 1/2" - 59'
Base of Rail - Level
12'-3 1/2" B. of R. to Masonry.
Web Pl. 110" x 7/16"
All Int. Stiff. 4" x 3 1/2" x 7/16" with fills.
1 Cover 18"
1 " 18" - 59'
1 " 18" x 7/16" - 41'
107'-0" bet. backwalls.
98'-6" bet. neat lines.
103'-6" c. to c. End Pins.
106'-0" Out to Out.
Top Laterals: All - Ls 6" x 6" x 3/8"
No Bottom Laterals.
Backwall
Cross Frame
Int. Frames same sizes as End Frames.
End Frame.
Max. Moment
D. 12453000#
L. 47040000#
I. 34980000#
94473000#
Max. Shear
D. 40100
L. 175200
I. 130300
345600
Max. Flange Str. 94473000 ÷ 110.1 = 858000.
@ 17000 = 50.5" net.
@ 10000 = 34.6" net in web
@ 350 = 989" in wall Pl.
@ 1600 = 216" of 4" rollers.
1 Web pl. 110" x 7/16" = 48.1" gr.
Top Flange
2 Ls 8" x 8" x 7/8" 22.9
1 Cover 18" x 1/2" 9.0 - 83'
1 " 18" x 1/2" 9.0 - 72'
1 " 18" x 1/2" 9.0 - 59"
1 " 18" x 7/16" 7.9 - 41'
57.8
Bottom Flange
2 Ls 8" x 8" x 7/8" 22.9" gr. = 19.9 net.
1 Cover 18" x 1/2" 9.0 8.0 - 83'
1 " 18" x 1/2" 9.0 8.0 - 72'
1 " 18" x 1/2" 9.0 8.0 - 59'
1 " 18" x 7/16" 7.9 7.0 - 41'
50.6
Material Medium O.H. Steel.
Specifications S. Ry. of 1899.
Rivets 7/8" diam.
Ties 8" x 12" notched to 11 1/2"
Assumed Dead Load
Track 400# per lin. ft.
Steel 1150
1550
15
Assumed Live Load
SOUTHERN RAILWAY
Rocky River Crossing M.P. 362.3
Track Deck Plate Girder Span
106'-0" Out to Out.
Stress Sheet
Scale 1/8" = 1 ft.
American Bridge Co.
Pencoyd Office.
Pencoyd Pa. Nov 12 1901.
In Charge of
American Br. Co. Cont. # A 230
Pencoyd Office Order # 302
DRAWING No. 796
14