

B.M. #1-City of Wichita Disc on Hubguard on the SW Cor. of the Harry Street Bridge over the Arkansas River. 25' Rt. & Sta. 8+11.03 El.=1296.40

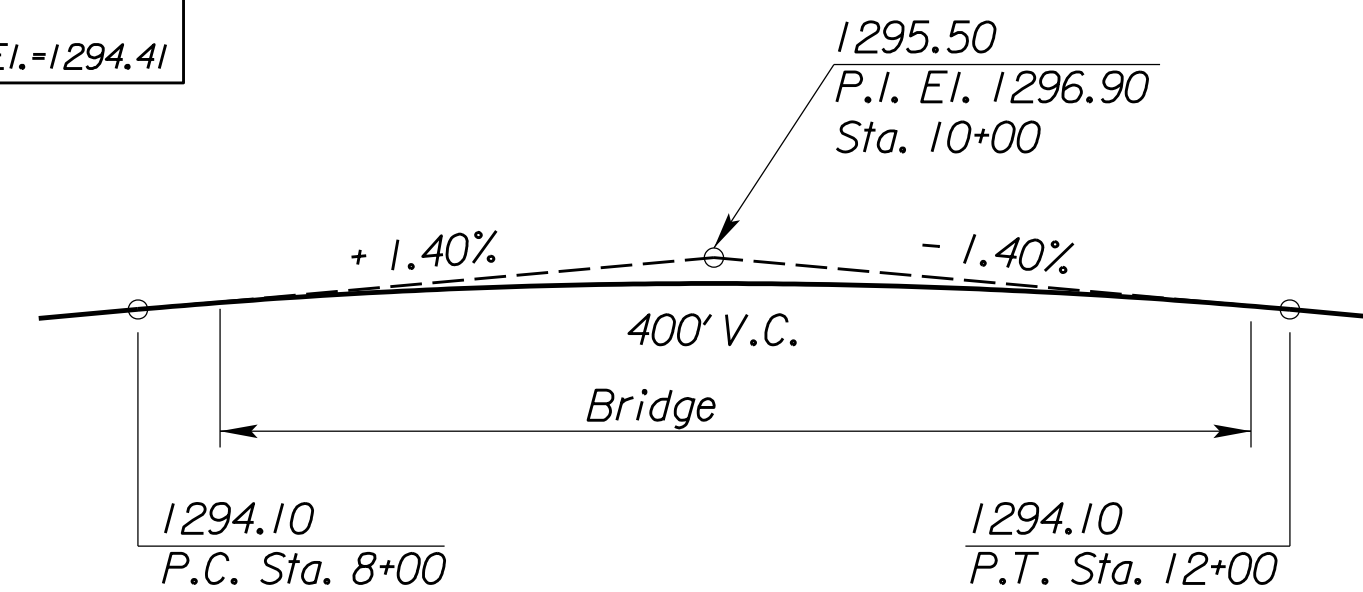
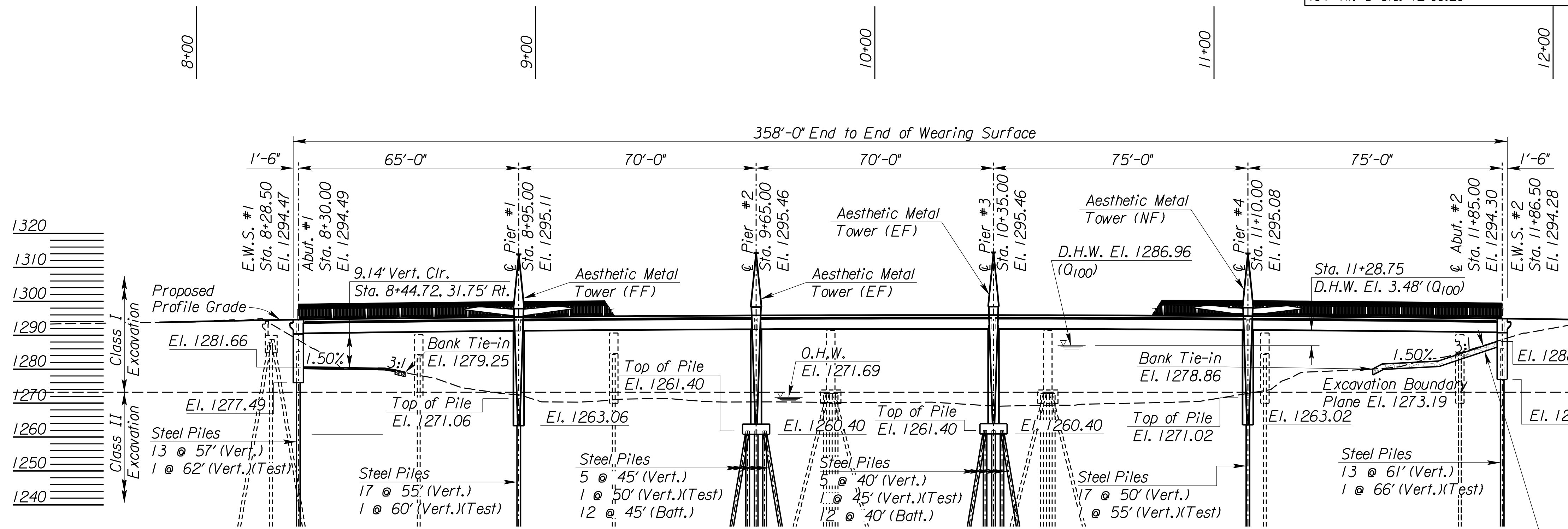
B.M. #2-Railroad Spike in the N Face of the Highline Pole between the E High Bank of the Arkansas River and the W Curb of Greenway Boulevard 194' Rt. & Sta. 12+08.20 El.=1294.41



CONSTRUCTION LAYOUT

HARRY STREET BRIDGE OVER ARKANSAS RIVER

STRUCTURE NO. 43040087630AR40

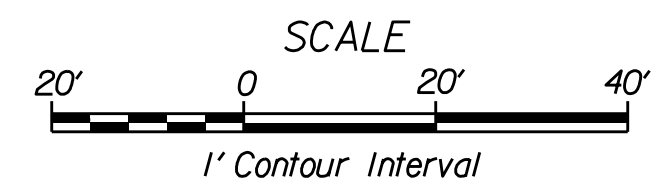
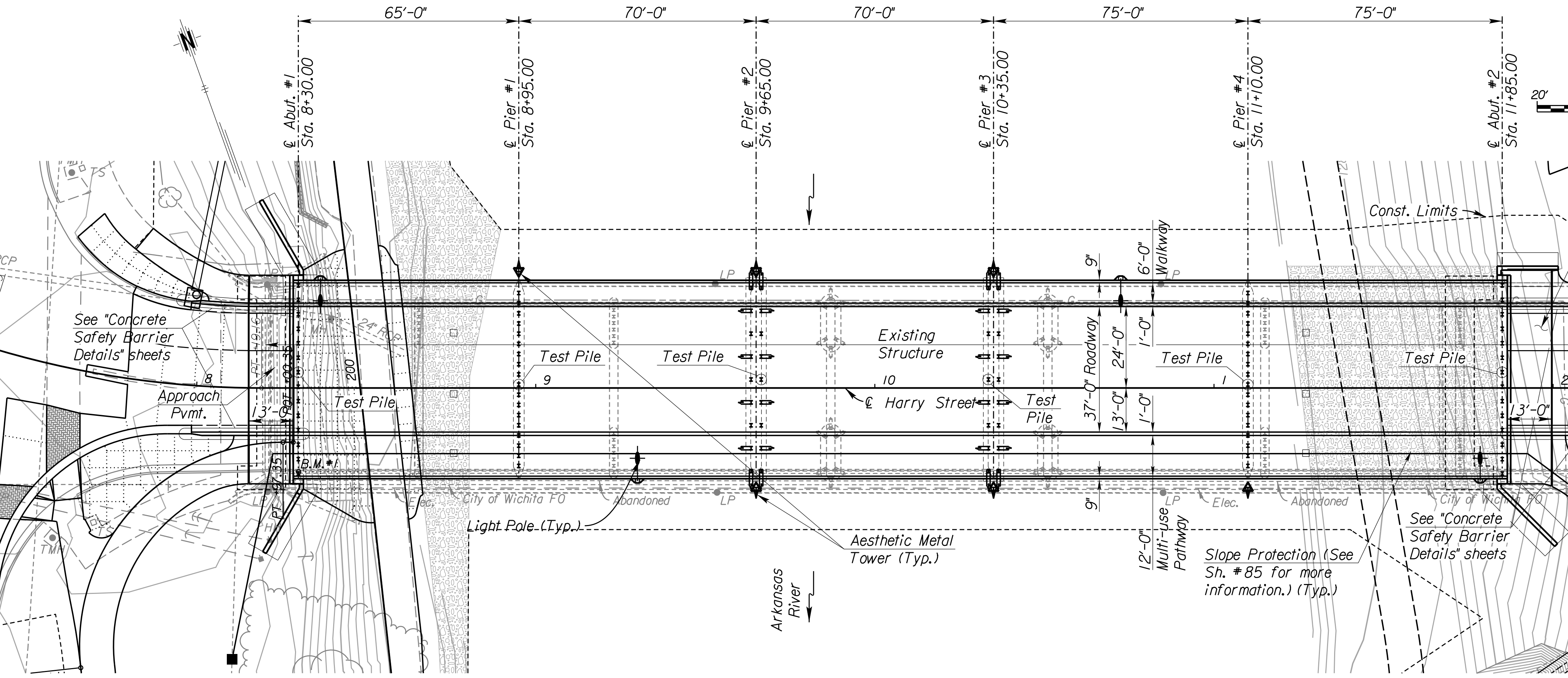


VERTICAL BRIDGE ALIGNMENT

Note:
Approach slab reinforcing tie bars shall be protected by the Contractor throughout construction. Tie bars inadequately protected and subsequently damaged will be replaced with similar bars drilled and grouted into place and installed at Contractor's expense. See "Abutment Diaphragm Details" Sh. #51 for location of #5 approach slab tie bars.
See "Expansion Joint Details", Sh. # 21 .
See table on this sheet for adjusted "W" values. "W" is the formed gap. The temperatures in the table are the average ambient temperature over the past 24 hours. (See "Concrete Bridge Approach Pavement", Sh. #18 & 19).

Temp., (F°)	30°	40°	50°	60°	70°	80°	90°
"W ₂ ", (in.) Δ	3 5/8"	3 1/2"	3 3/8"	3"	3"	2 7/8"	2 3/4"

ELEVATION
65'-2@70'-2@75' Continuous Prestressed Concrete Beam Spans;
37'-0" Roadway, 6'-0" Walkway Lt. and 12'-0" Multi-use Pathway Rt., 0° Skew



DRAINAGE DATA

* Drainage Area	-----	3,470 Sq. Mi.
* Design Frequency	-----	100 Years
* Design Discharge (Q ₁₀₀)	-----	25,500 cfs
Design High Water Elevation	-----	1286.47 Ft.
Design Backwater	-----	0.00 Ft.
Design Backwater Elevation	-----	1287.12
Overtopping Elevation (Sta. N/A)	-----	N/A
Overtopping Discharge	-----	N/A cfs
Overtopping Frequency	-----	>500 Years
Historic High Water Elevation	-----	Not Known
Ordinary High Water Elevation	-----	1271.69
Total Waterway Provided	-----	6,000 Sq. Ft.
Design Waterway Provided	-----	4,759 Sq. Ft.
100 Yr. Floodplain Elev. (FEMA)	-----	1286.47 Ft.
Average Velocity at Q _{des}	-----	5.7 fps

* Provided by the FEMA Model Map #20173C361G

** Controlled upstream.

LEGEND

EF = Each Face
NF = Near Face
FF = Far Face

Plotted : 10/3/2019 2:13:41 PM File : T:\35838A-COW_Harry St Bridge\Cadd\Sheets\Structures\38CL01.dgn

NO.	DATE	DESCRIPTION

PROJ NO:	35838B
SCALE:	AS NOTED
DATE:	
DESIGNED BY:	
DRAWN BY:	
CHECKED BY:	
YEAR:	2019
SHEET NO	47
SHEET	47 OF 135

See Sh. #22 - 24 for Concrete Safety Barrier Details.