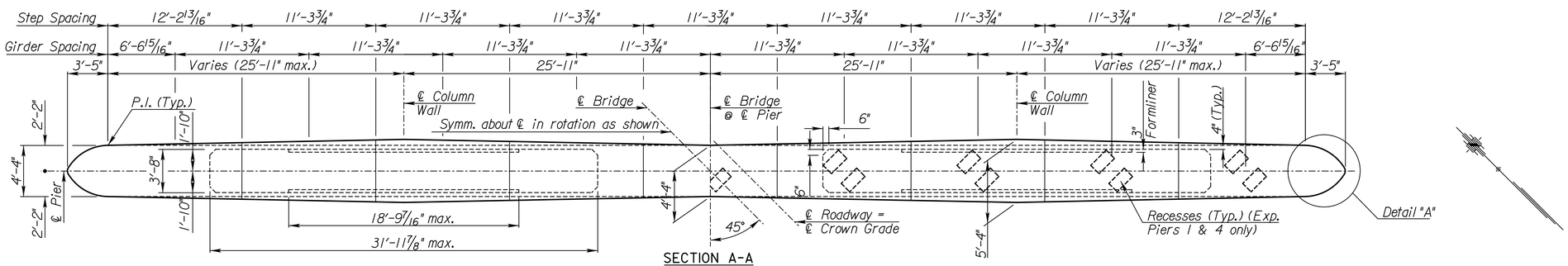
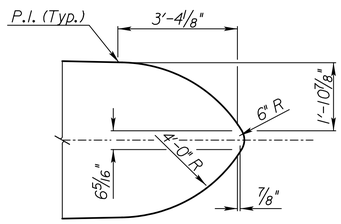


SECTION A-A
(Aesthetic Tower Base not shown for Clarity)

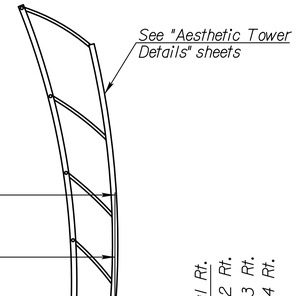


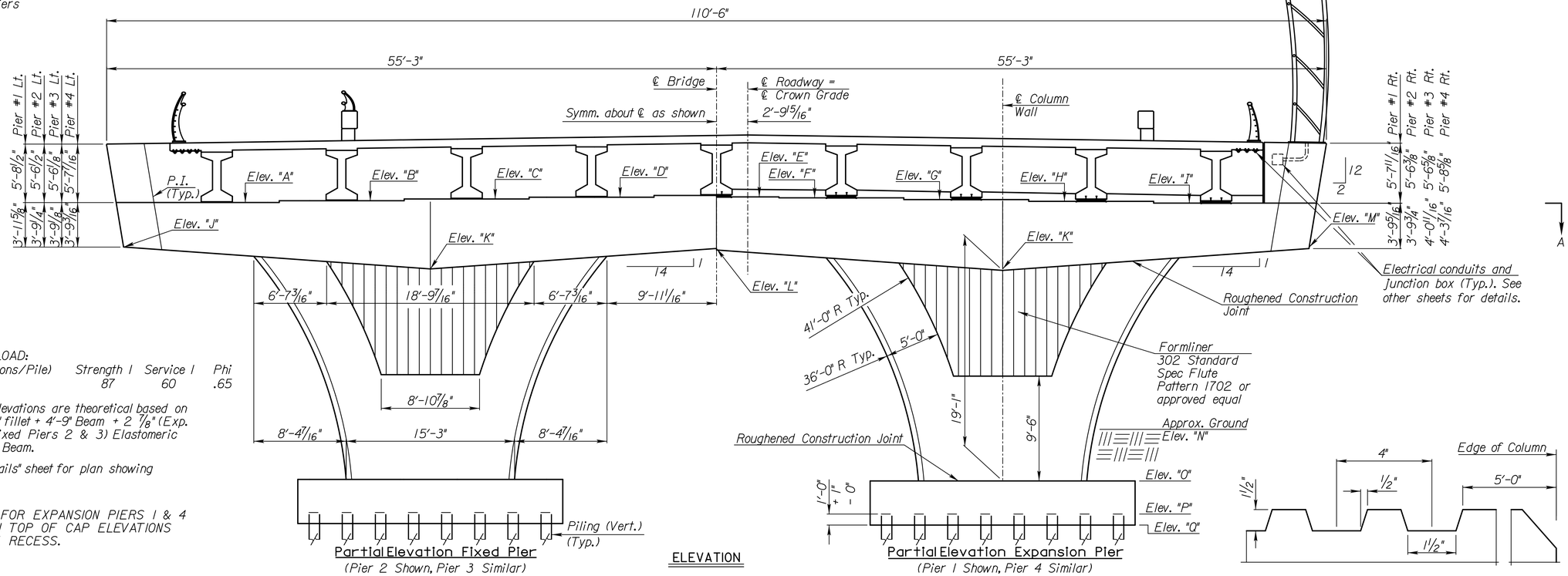
DETAIL "A"
Typ. All Piers

NOTE: Anchor bolts for tower attachment not shown.

NOTE: ℄ Roadway is not ℄ Bridge

See lighting detail sheets. Junction boxes will be attached to south side of Pier 1 for underdeck lighting. Junction boxes will also attach to Piers 1 and 4 for tower lighting with conduits traveling through and in the cap and tower support. Deflection fittings, if required, are included in the "Electrical Lighting System" bid item.





Partial Elevation Fixed Pier
(Pier 2 Shown, Pier 3 Similar)

ELEVATION

Partial Elevation Expansion Pier
(Pier 1 Shown, Pier 4 Similar)

FLUTE SURFACE TREATMENT DETAILS

LRFD DESIGN PILE LOAD:

Design Loading (Tons/Pile)	Strength I	Service I	Phi
Piers	87	60	.65

Note: Dimensions and elevations are theoretical based on 8 1/2" Concrete Deck + 2" fillet + 4'-9" Beam + 2 7/8" (Exp. Piers 1 & 4) or 3/4" (Fixed Piers 2 & 3) Elastomeric Bearing to top of Pier Beam.

See "Pier Auxiliary Details" sheet for plan showing elevation locations.

NOTE:
BEARING RECESSES FOR EXPANSION PIERS 1 & 4 ARE 1/2" LOWER THAN TOP OF CAP ELEVATIONS LISTED DUE TO THE RECESS.

TABLE OF PIER ELEVATIONS @ ℄ PIER

Pier	"A"	"B"	"C"	"D"	"E"	"F"	"G"	"H"	"I"	"J"	"K"	"L"	"M"	"N"	"O"	"P"	"Q"
Pier No. 1	1310.53	1310.67	1310.80	1310.93	1311.06	1310.94	1310.74	1310.54	1310.34	1306.56	1304.59	1306.44	1306.57	1295.0	1285.50	1282.50	1281.50
Pier No. 2	1310.78	1310.94	1311.10	1311.26	1311.42	1311.33	1311.16	1310.99	1310.82	1307.01	1305.03	1306.88	1307.01	1290.6	1285.94	1282.94	1281.94
Pier No. 3	1310.53	1310.72	1310.92	1311.11	1311.29	1311.24	1311.10	1310.96	1310.82	1306.77	1304.78	1306.63	1306.76	1292.2	1285.70	1282.70	1281.70
Pier No. 4	1309.81	1310.03	1310.26	1310.48	1310.69	1310.67	1310.56	1310.45	1310.33	1306.05	1304.06	1305.91	1306.04	1292.4	1284.98	1281.98	1280.98

NOTE: Elev. "K" is 5'-9" below the lowest top of cap elevation

PREPARED BY
BG CONSULTANTS, GROUP INC.
727 NORTH WACO
SUITE 260
WICHITA, KANSAS 67203
PHONE: 316-352-9333

CONSULTANTS:

REVISIONS:

MARK	DATE	DESCRIPTION

AMIDON AVE. BRIDGE
AT ARKANSAS RIVER

WICHITA, KANSAS

CITY OF WICHITA

PROJ NO:	E1010-4025062
SCALE:	
DATE:	07/08/2022
DESIGNED BY:	JBM
DRAWN BY:	JBM
CHECKED BY:	WBS

SHEET TITLE:

PIER DETAILS I

SHEET NO.
41
SHEET 41 OF 128

Indexes $DATE$ - $TIMES$ - $FILES$

IF THIS DRAWING IS LESS THAN 22" X 36" IT IS A REDUCED SIZE DRAWING