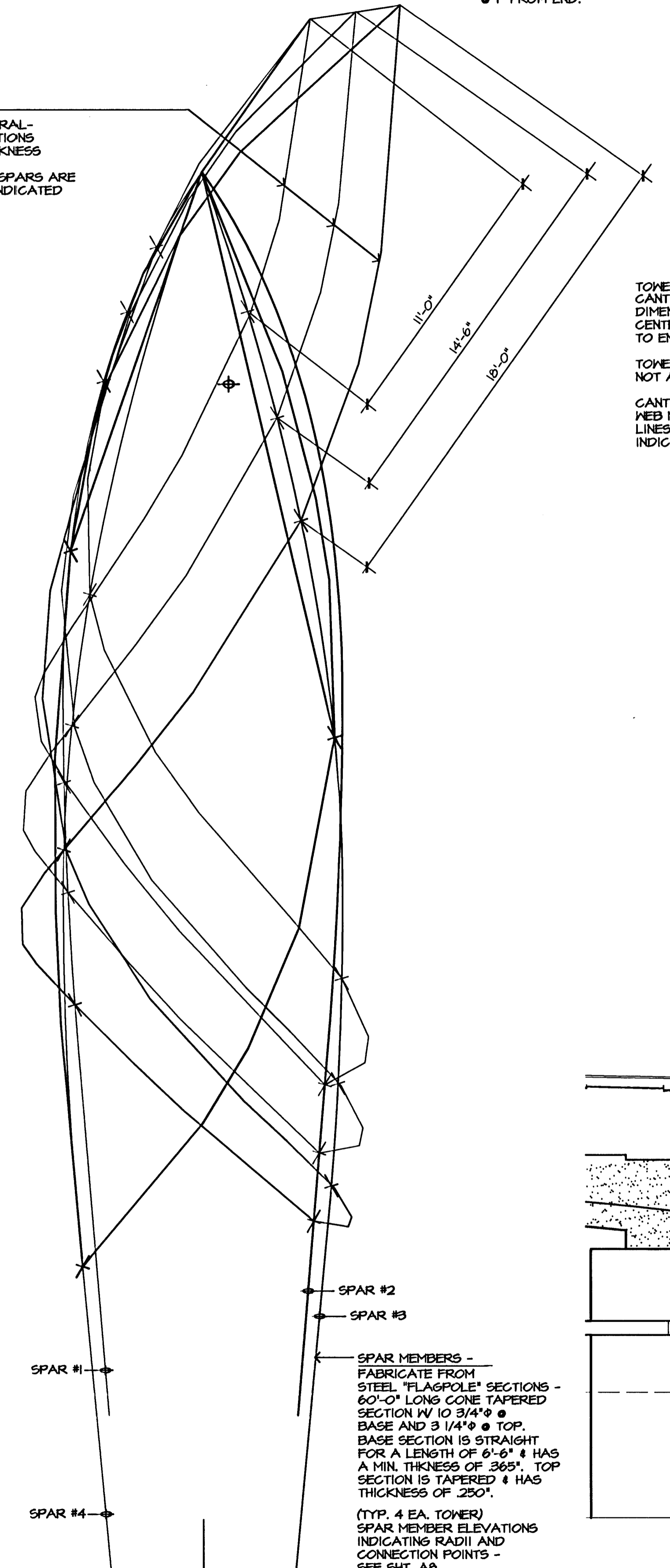


WEB MEMBERS - FABRICATE FROM SPIRAL-BENT 2.075" O.D. SECTIONS WITH .203" WALL THICKNESS
WEB MEMBERS BTWN. SPARS ARE NOT SEGMENTED AS INDICATED BUT ARE HELICAL.

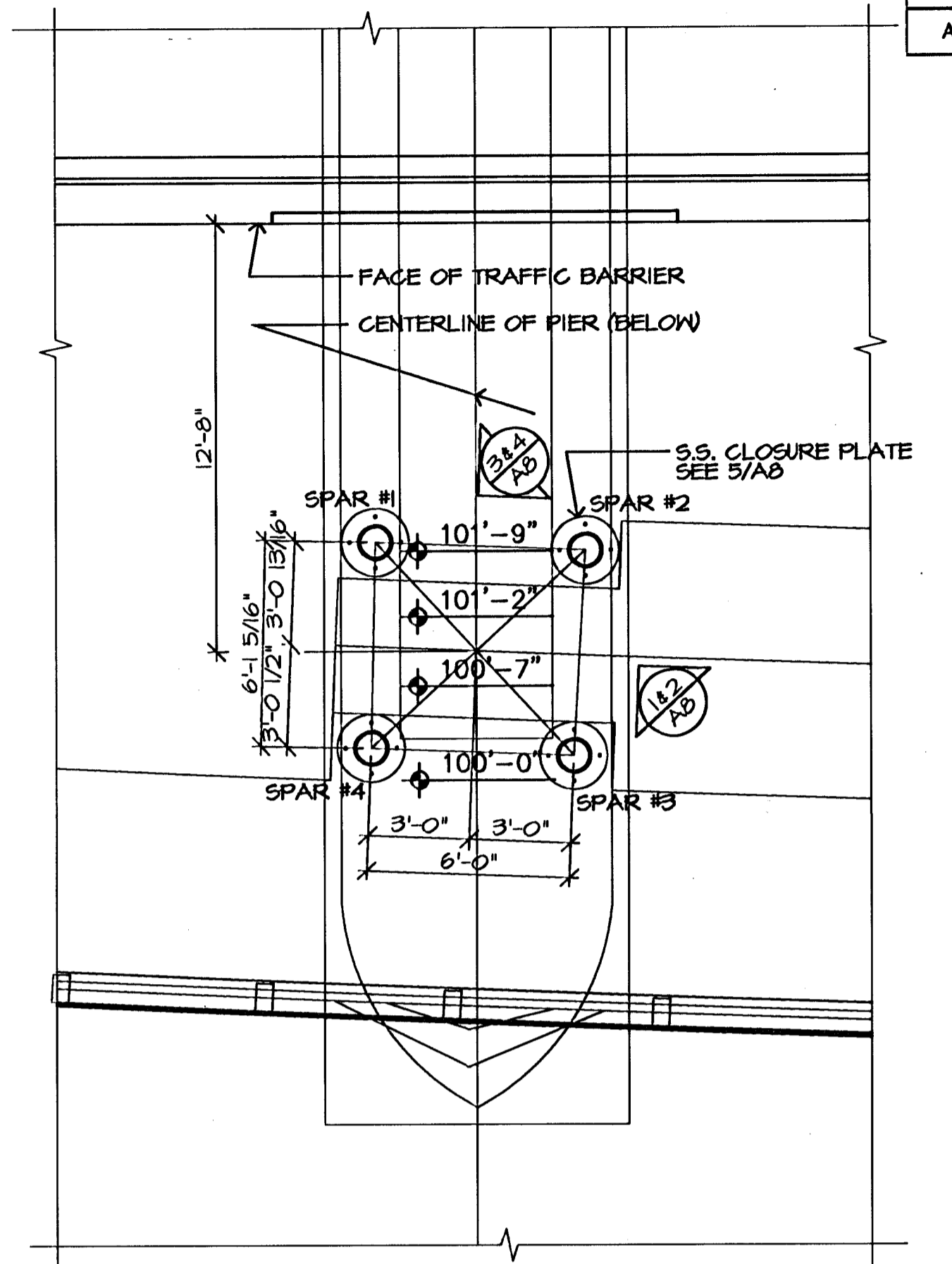
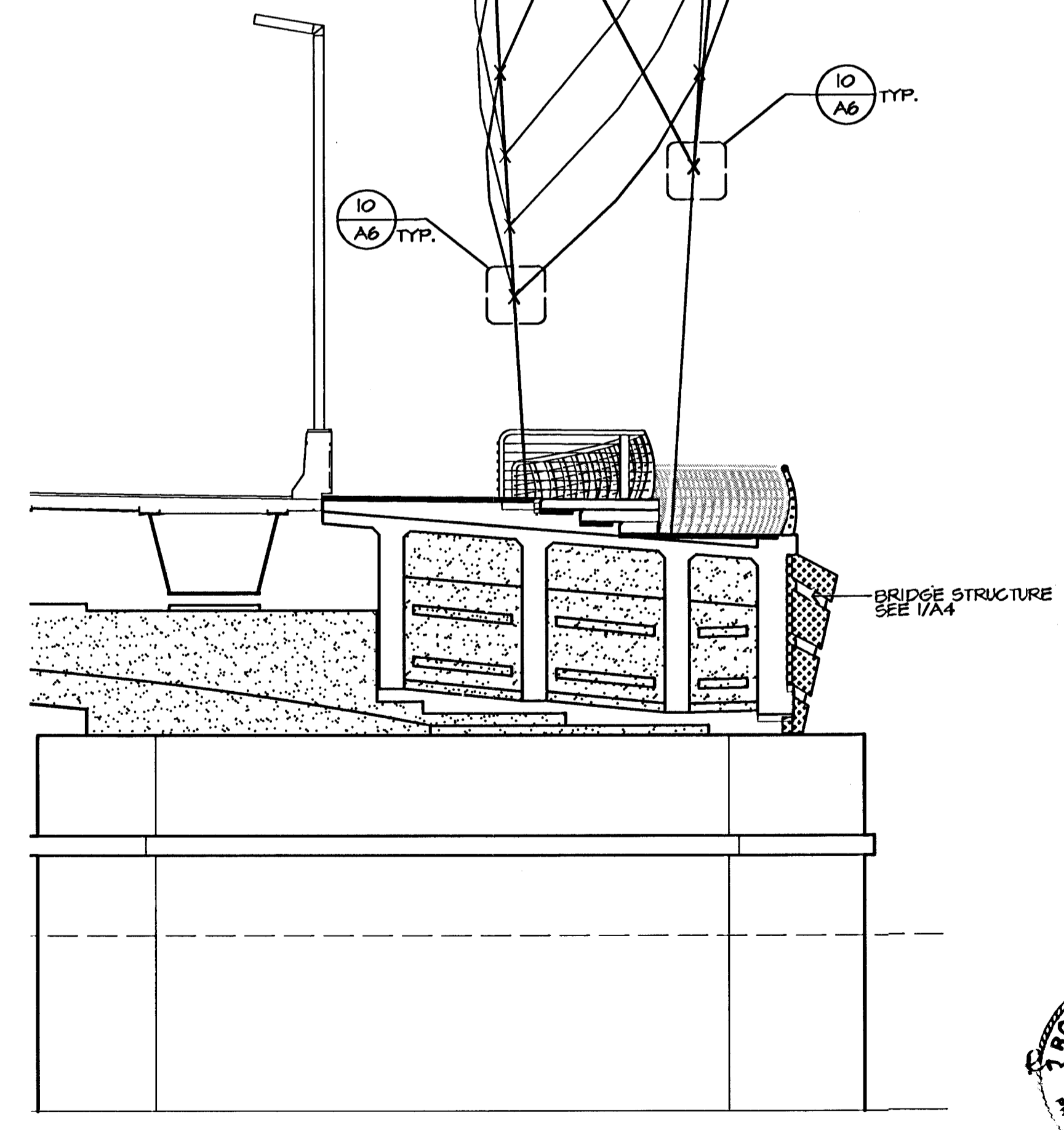


SPAR MEMBERS - FABRICATE FROM STEEL "FLAGPOLE" SECTIONS - 60'-0" LONG CONE TAPERED SECTION W/ 10 3/4" @ BASE AND 3 1/4" @ TOP. BASE SECTION IS STRAIGHT FOR A LENGTH OF 6'-6" & HAS A MIN. THICKNESS OF .365". TOP SECTION IS TAPERED & HAS THICKNESS OF .250".
(TYP. 4 EA. TOWER)
SPAR MEMBER ELEVATIONS INDICATING RADII AND CONNECTION POINTS - SEE SHT. A8.

1/2" ROD - WELD TO TOP OF SPAR CLOSURE & WELD TO CANTILEVERED WEB MEMBERS @ 1" FROM END.

TOWER WEB MEMBERS - CANTILEVER AS INDICATED. DIMENSIONS ARE GIVEN FROM CENTERLINE OF SIDE SPAR TO END OF WEB MEMBER.
TOWER WEB MEMBERS ARE NOT AS INDICATED BUT HELICAL.
CANTILEVERED PORTIONS OF WEB MEMBERS ARE STRAIGHT LINES & ARE PARALLEL AS INDICATED ON DRAWINGS.

TOP CLOSURE - CONNECT ALL FOUR SPARS AT ONE POINT WITH FORMED PIPE CLOSURE USING SLEEVED, WELDED CONNECTIONS.



4 ENLARGED TOWER BASE PLAN
0' 2' 4' 6' 1/4"=1'-0"

TOWER GENERAL NOTES

- SEE "ORNAMENTAL METALWORK" SPECIFICATION FOR DETAILED REQUIREMENTS FOR MATERIALS, FABRICATION AND INSTALLATION.
- FIELD MEASURE BRIDGE DIMENSIONS BEFORE FABRICATION.
- MODEL IS AVAILABLE FOR VIEWING AT THE OFFICES OF GOSSEN LIVINGSTON ASSOCIATES, ARCHITECTS, 420 S. EMPORIA, WICHITA, KANSAS.
- IT IS STRONGLY SUGGESTED THAT POTENTIAL FABRICATORS FAMILIARIZE THEMSELVES WITH THE MODEL, PLANS, AND SPECIFICATIONS BEFORE SUBMITTING A BID FOR THIS WORK.
- MATERIALS FOR ALL COMPONENTS OF TOWERS (EXCEPT BOLTS, WHICH SHALL BE STAINLESS STEEL), AS SPECIFIED, UNLESS FABRICATOR CAN ENGINEER STRUCTURE TO WITHSTAND SPECIFIED LOADS WITH CLEAR ANODIZED ALUMINUM OR A COMBINATION OF STAINLESS STEEL AND CLEAR-ANODIZED ALUMINUM.
- IF TOWERS ARE TO BE ENGINEERED BY FABRICATOR PER NOTE 5, TOWERS ARE TO BE ANALYZED FOR THE FOLLOWING LOADS:
 - DEAD LOAD
 - LIVE LOADS:
 - WIND: 80 MPH PER ANSI/AIAA MM FP 1001-90
($P = 0.00256 (1.3 V)^2 CACH$)
 - POTENTIAL FOR ACCUMULATION OF ICE BUILD-UP ON MEMBERS SHALL BE CONSIDERED.

1 TOWER AUXILLIARY VIEW
NO SCALE

2 TOWER VIEW
NO SCALE

3 TOWER VIEW
0' 2' 4' 6' 3/16"=1'-0"



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CITY OF WICHITA, KANSAS
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DOUGLAS AVENUE BRIDGE
OVER ARKANSAS RIVER
BRIDGE TOWER REFERENCE
CITY OF WICHITA PROJECT NO. 472-82721
PROFESSIONAL ENGINEERING CONSULTANTS, P.A.
ENGINEERS
WICHITA, KANSAS

Designed by	VS	Checked by	JPB
Drawn by	LBD\JPB\AJ	Date	9/12/97
		Job No.	95088-4

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