

GBA
architects
engineers

DATE:	
DESIGN BY:	
DRAWN BY:	
PROJECT NO.:	
SHEET NO.	TOTAL SHEETS
1	7

Bridge Plans
General Plan & Elevation

NO.	DATE	REVISIONS	BY	APPROVED

Hydrologic Data
Drainage Area = 56.8 (sq. mi.)
Design Flood Frequency = 50 years
Design Flood Discharge = 4,794 cfs
Design Flood (D.F.) Elevation = 809.8
Base Flood (100-year)
Base Flood Elevation = 811.28
Base Flood Discharge = 5,636 cfs
Estimated Backwater = 0.2 ft
Average Velocity thru Opening = 2.6 ft/s
Freeboard (50-year)
Design Hg Water = 809.8
Freeboard = 2.6 ft
Roadway Overtopping
Overtopping Flood Discharge = N/A
Overtopping Flood Frequency N/A years
Flood Elevation = N/A

All longitudinal dimensions shown are horizontal.

Note: This drawing is not to scale. Follow dimensions.

Architect 00212, Professional Engineer 000133, Landscape Architect 000025, Professional Land Surveyor 000059

SEC/SUR 34 TWP 48N RGE 32W

EAST BRIDGE
(50'-105'-50') PRESTRESSED CONCRETE NU-GIRDER SPANS

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9801 Renner Boulevard
Lenexa, Kansas 66219
913.492.0400
www.gbateam.com

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Joshua J. Miller
Professional Engineer
License No. 2009010386

Bridge Plans
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BM #11 Chiseled "L" on top Northeast corner of concrete guardrail at Northeast corner of I-470 Bridge spanning View High Drive. Elev. = 833.80

Notice and Disclaimer Regarding Boring Log Data

⊙ Indicates location of borings.

The locations of all subsurface borings for this structure are shown on the plan sheet(s) for this structure. The boring data for all locations indicated, as well as any other boring logs or other factual records of subsurface data and investigations performed by the Engineer for the design of the project, are shown on Sheet(s) No. (---). No greater significance or weight should be given to the boring data depicted on the plan sheets than is given to the subsurface data available from the Engineer or elsewhere.

The Engineer does not represent or warrant that any such boring data accurately depicts the conditions to be encountered in constructing this project. A contractor assumes all risks it may encounter in basing its bid prices, time or schedule of performance on the boring data depicted here, or on any other documentation not expressly warranted, which the contractor may obtain from the Engineer.

Hydrologic Data

Drainage Area = 56.8 (sq. mi.)
Design Flood Frequency = 50 years
Design Flood Discharge = 4,794 cfs
Design Flood (D.F.) Elevation = 809.4

Base Flood (100-year)

Base Flood Elevation = 810.9
Base Flood Discharge = 5,636 cfs
Estimated Backwater = 0.1 ft
Average Velocity thru Opening = 2.4 ft/s

Freeboard (50-year)

Design Hig Water = 809.4
Freeboard = 2.6 ft

Roadway Overtopping

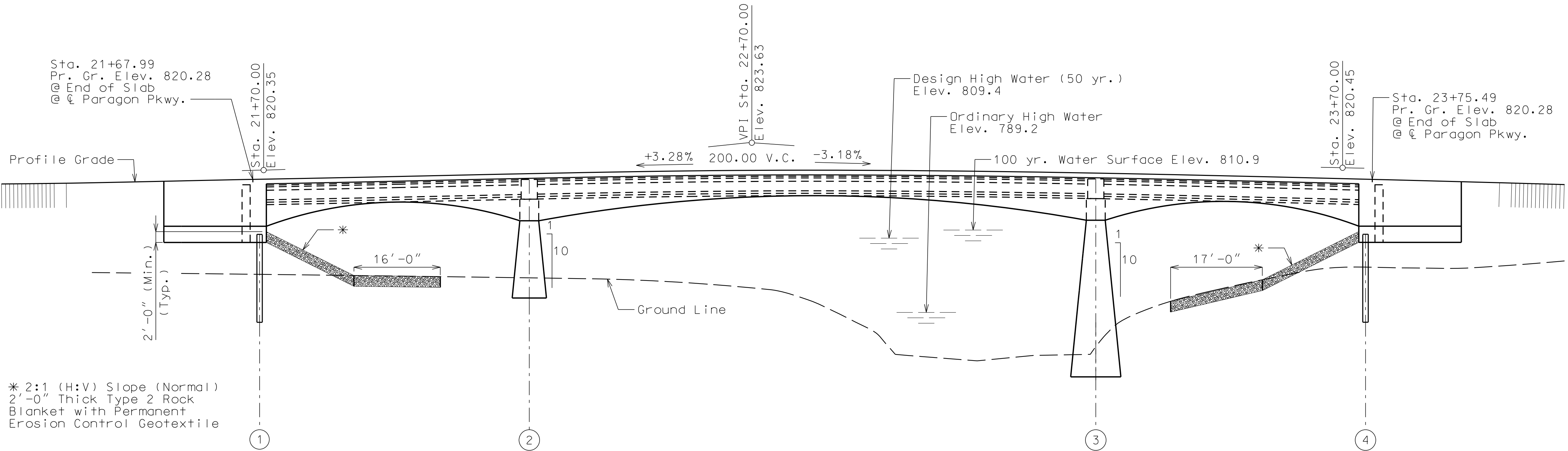
Overtopping Flood Discharge = N/A
Overtopping Flood Frequency N/A years
Flood Elevation = N/A

Notes:

Roadway fill shall be completed to the final roadway section and up to the elevation of the concrete beam within the limits of the structure and for not less than 25 feet in back of the fill face of the end bents before any piles are driven for any bents falling within the embankment section.

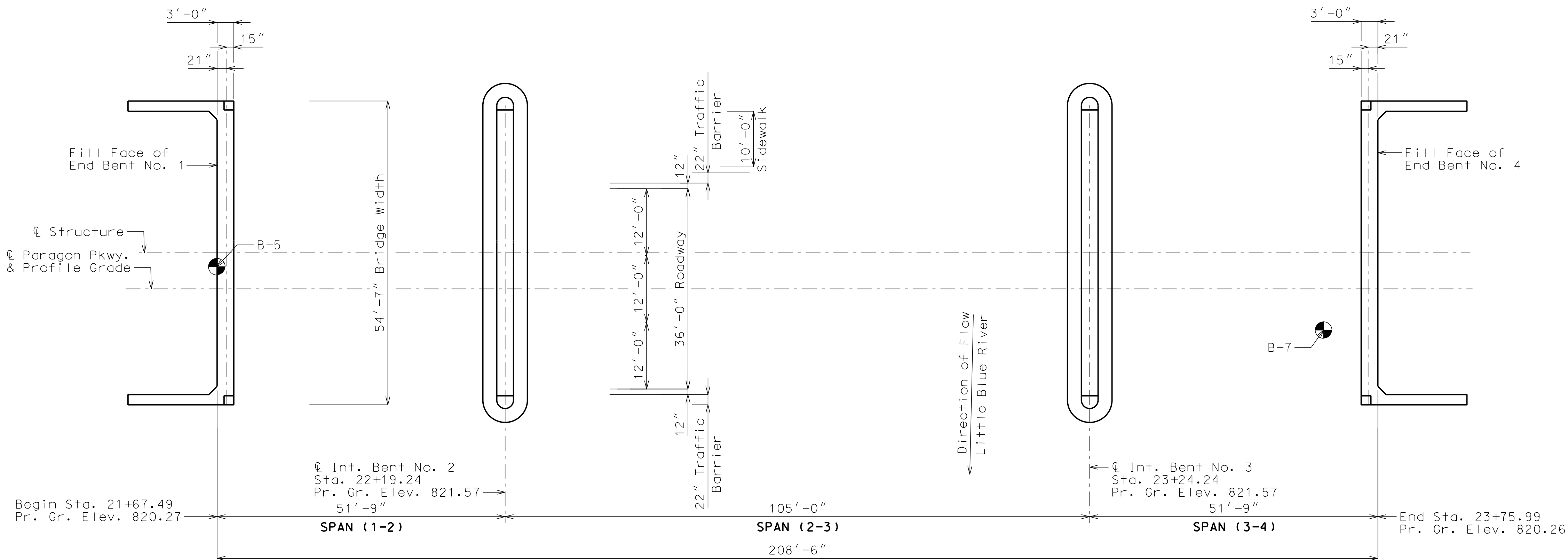
All bents are parallel.

All longitudinal dimensions shown are horizontal.



ELEVATION

(Looking North)
(Aesthetics not shown for clarity)
(Steel Aesthetic beam not below elevation 811.9)



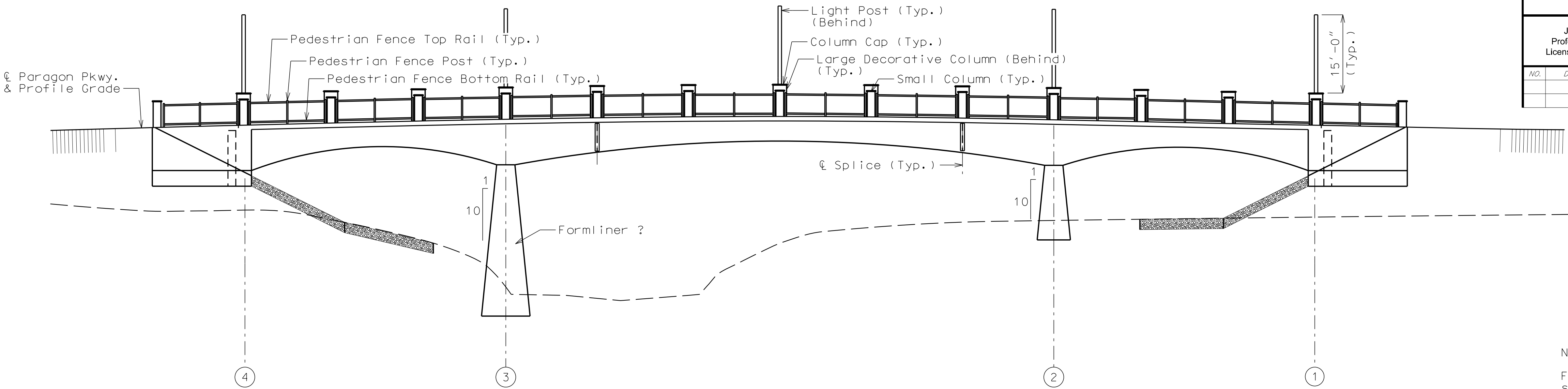
PLAN

BRIDGE: EAST PARAGON PARKWAY OVER LITTLE BLUE RIVER

Note: This drawing is not to scale. Follow dimensions.

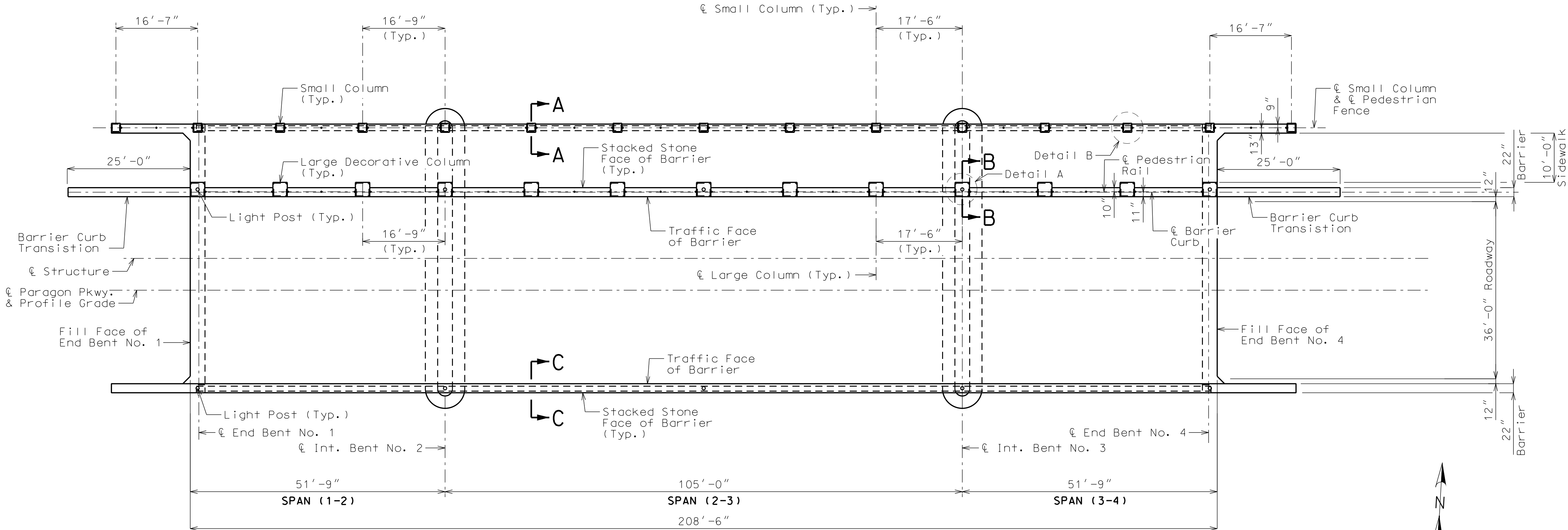
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EAST BRIDGE
(50'-105'-50') PRESTRESSED CONCRETE NU-GIRDER SPANS



ELEVATION
(Looking South)

Notes:
For Detail A, Detail B, Section A-A, B-B & C-C, see Sheet No. 5.



PLAN

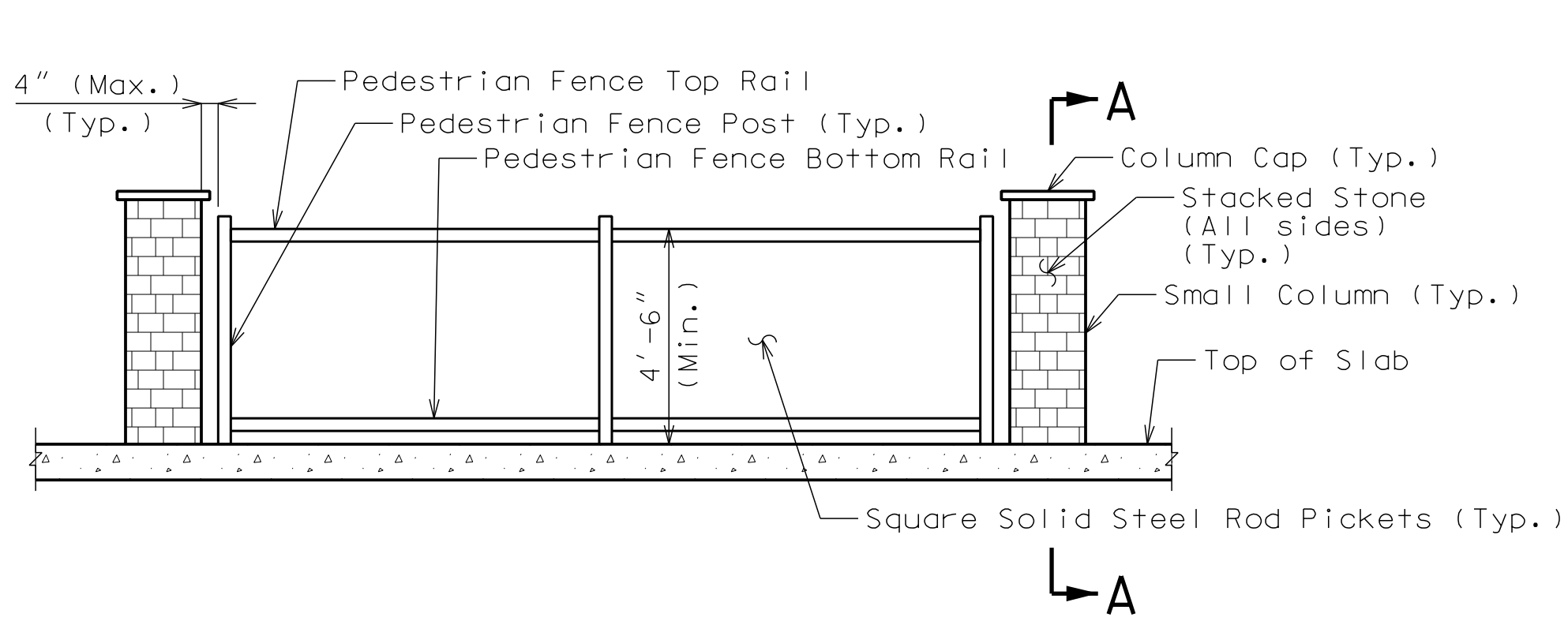
Note: This drawing is not to scale. Follow dimensions.

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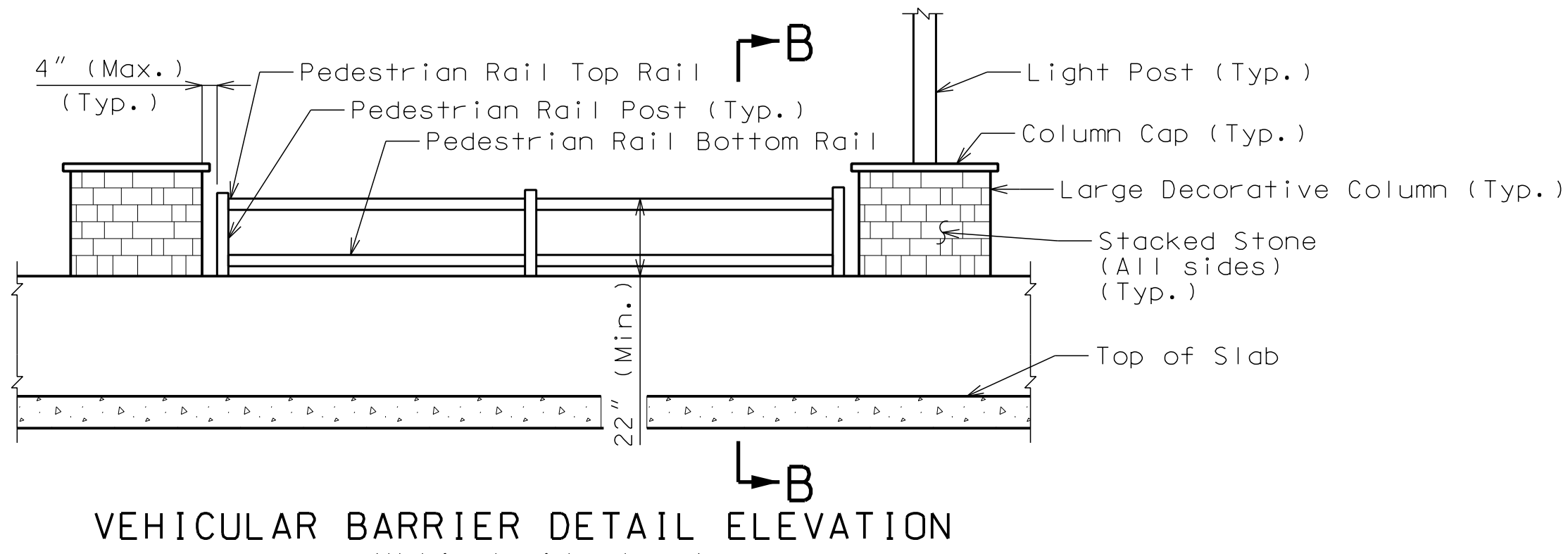
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Joshua J. Miller Professional Engineer License No. 2009010386		Bridge Plans Aesthetics Plan & Elevation	
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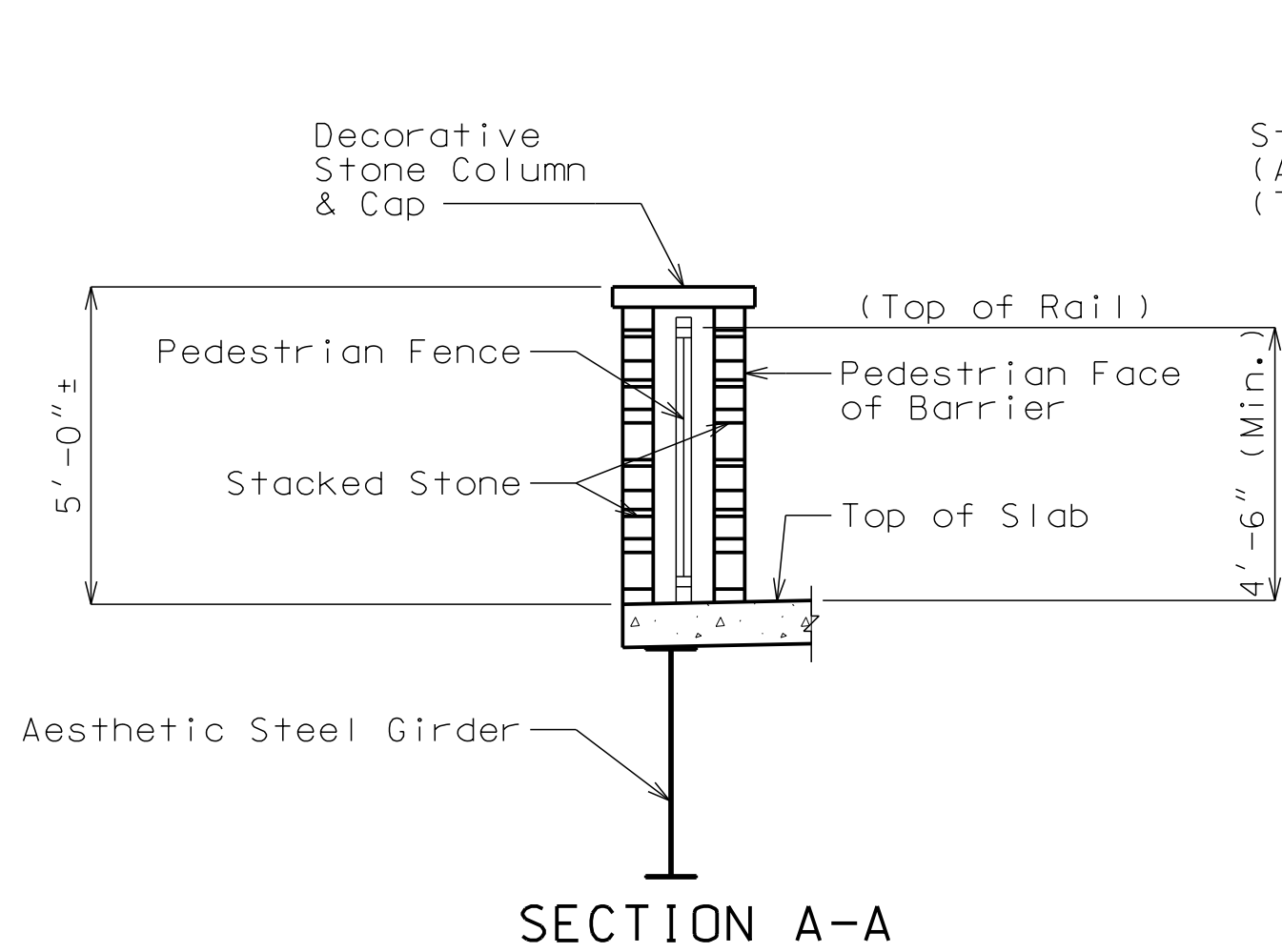
Architect 00212, Professional Engineer 000133, Landscape Architect 000025, Professional Land Surveyor 000059



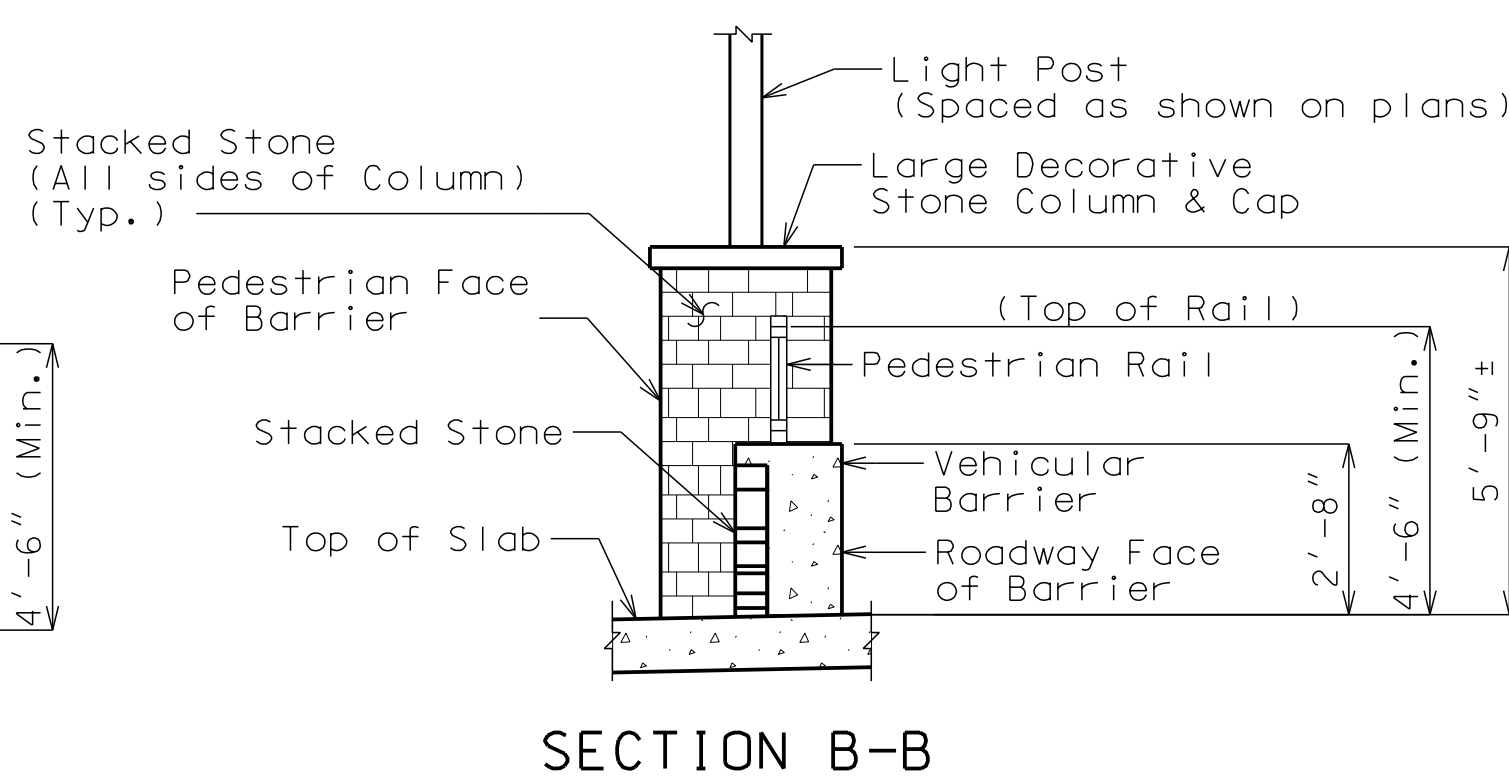
PEDESTRIAN FENCE DETAIL ELEVATION



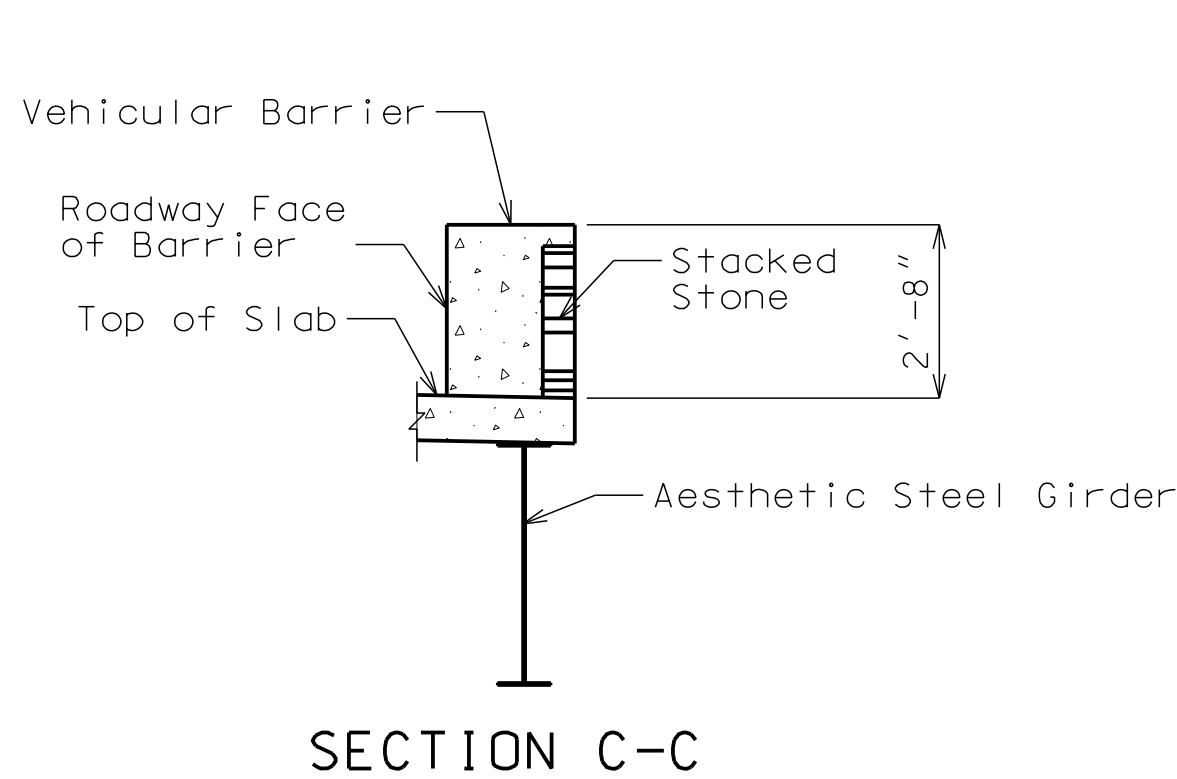
VEHICULAR BARRIER DETAIL ELEVATION
(Vehical side shown)



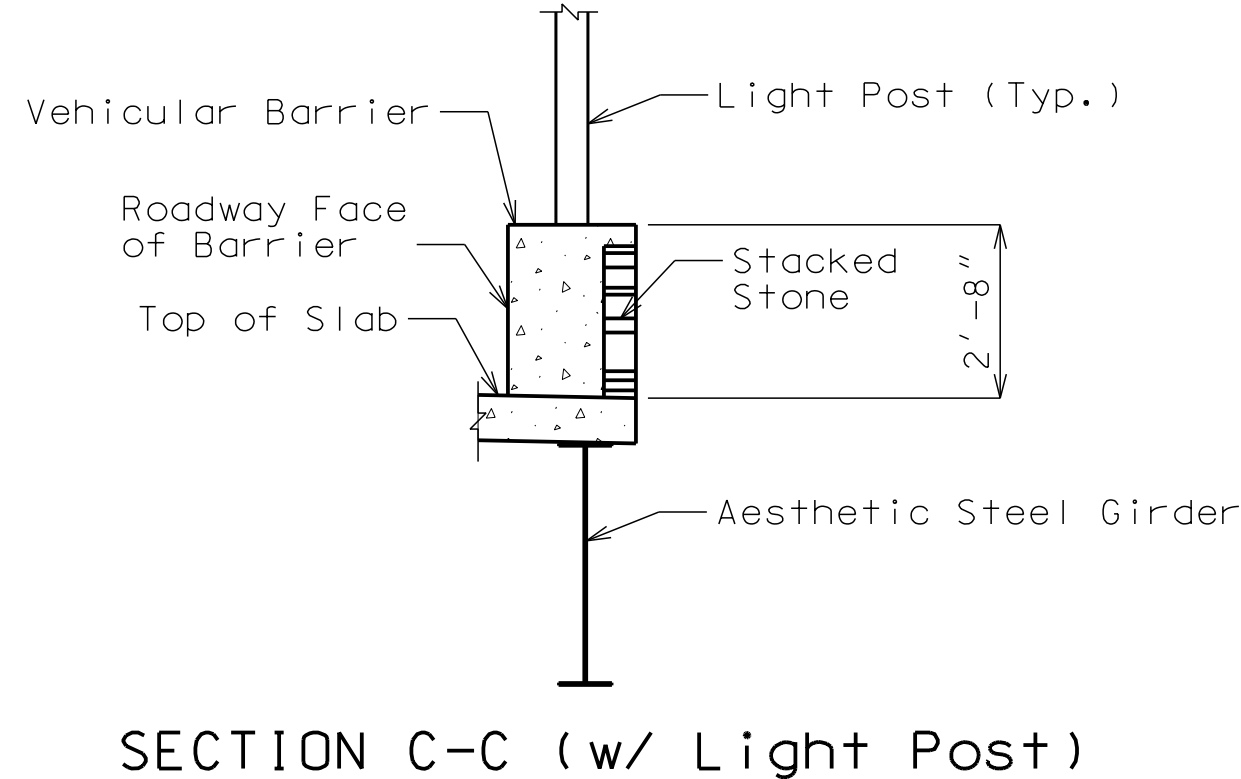
SECTION A-A



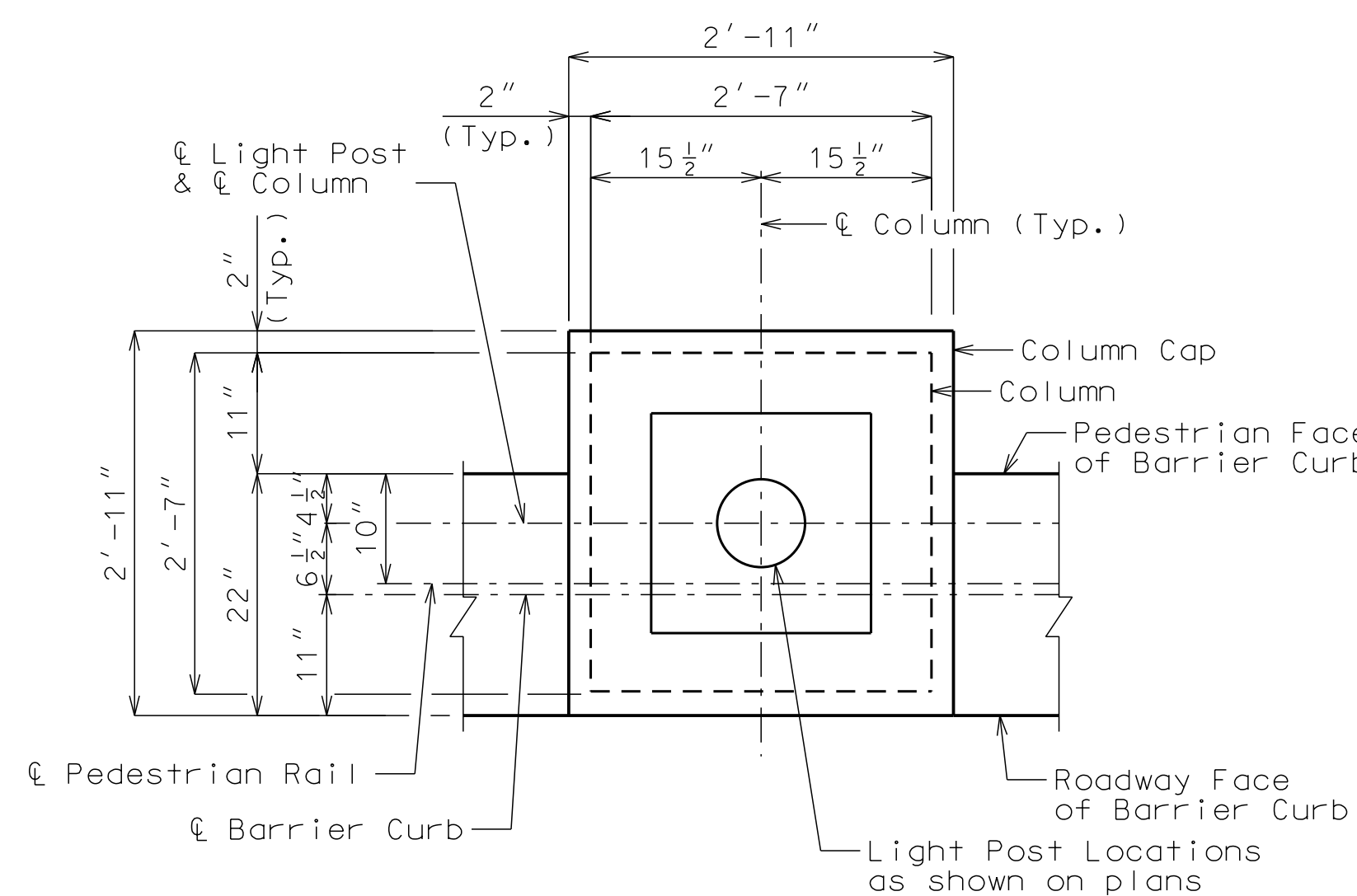
SECTION B-B



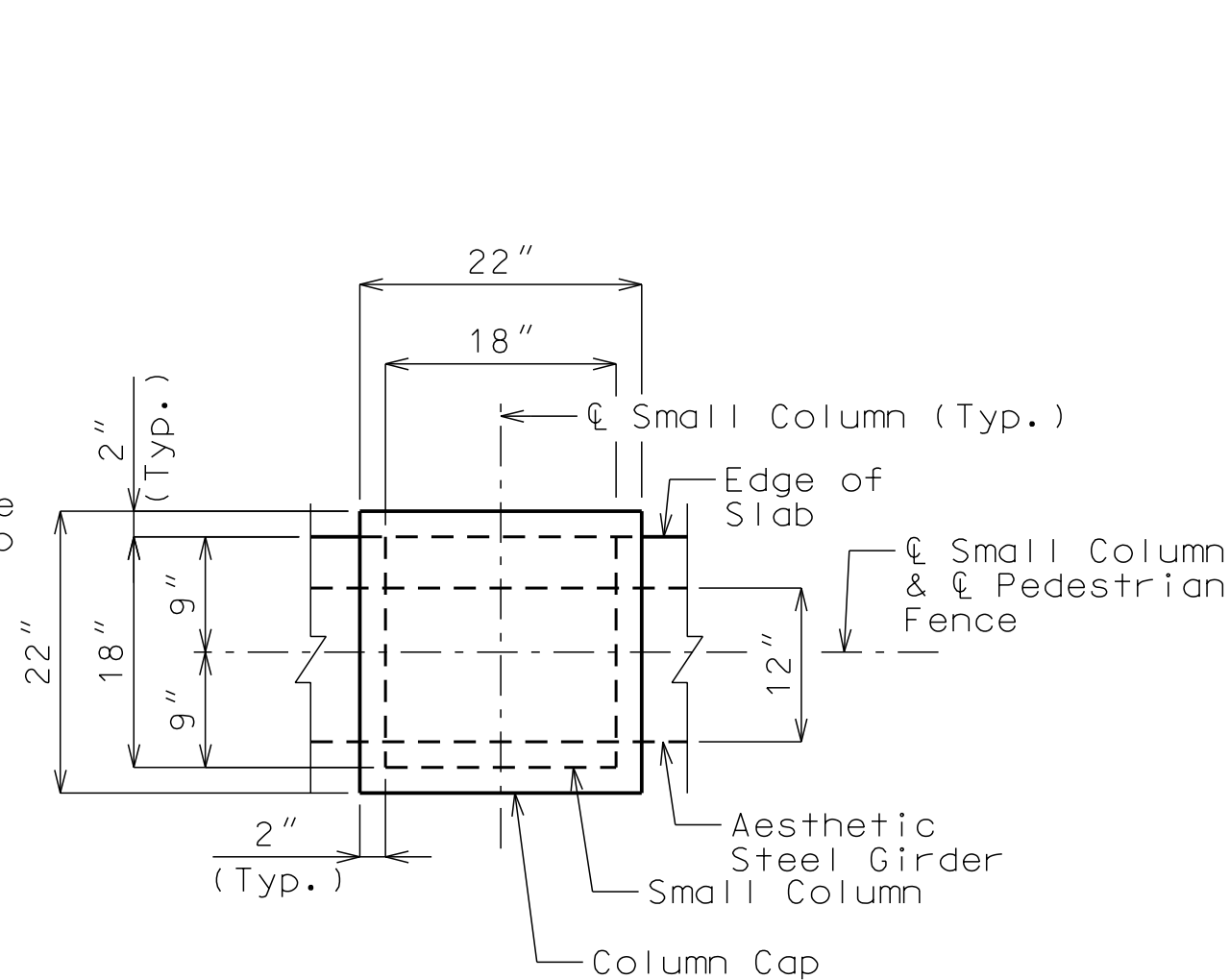
SECTION C-C



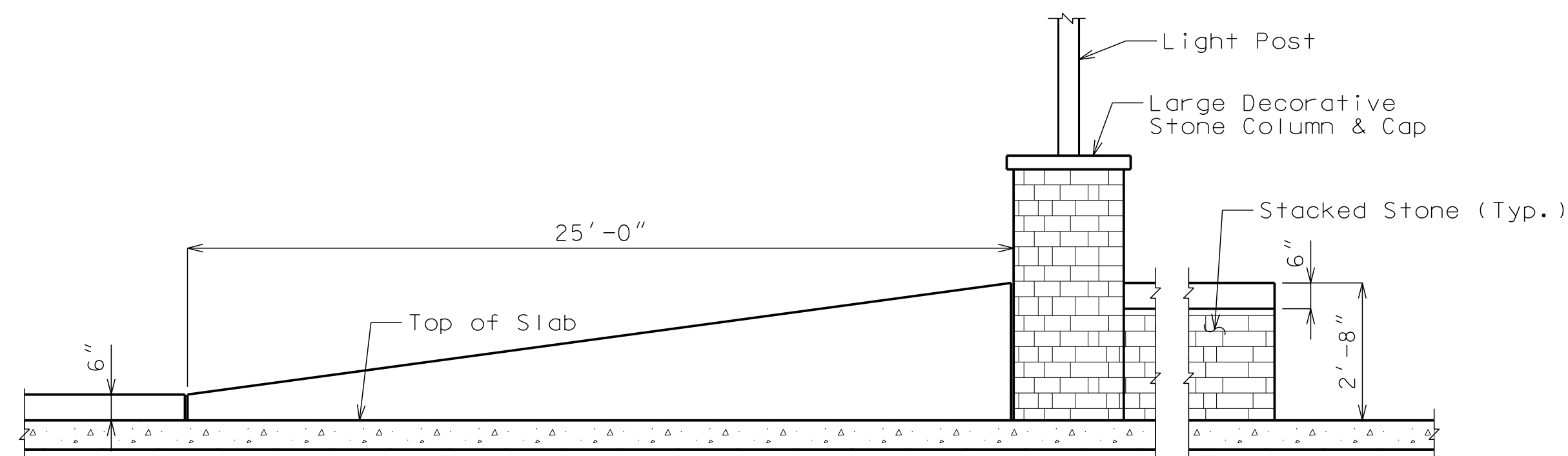
SECTION C-C (w/ Light Post)



DETAIL A



DETAIL B



VEHICULAR BARRIER CURB TRANSITION DETAIL
(Pedestrian side shown)

Note: This drawing is not to scale. Follow dimensions.

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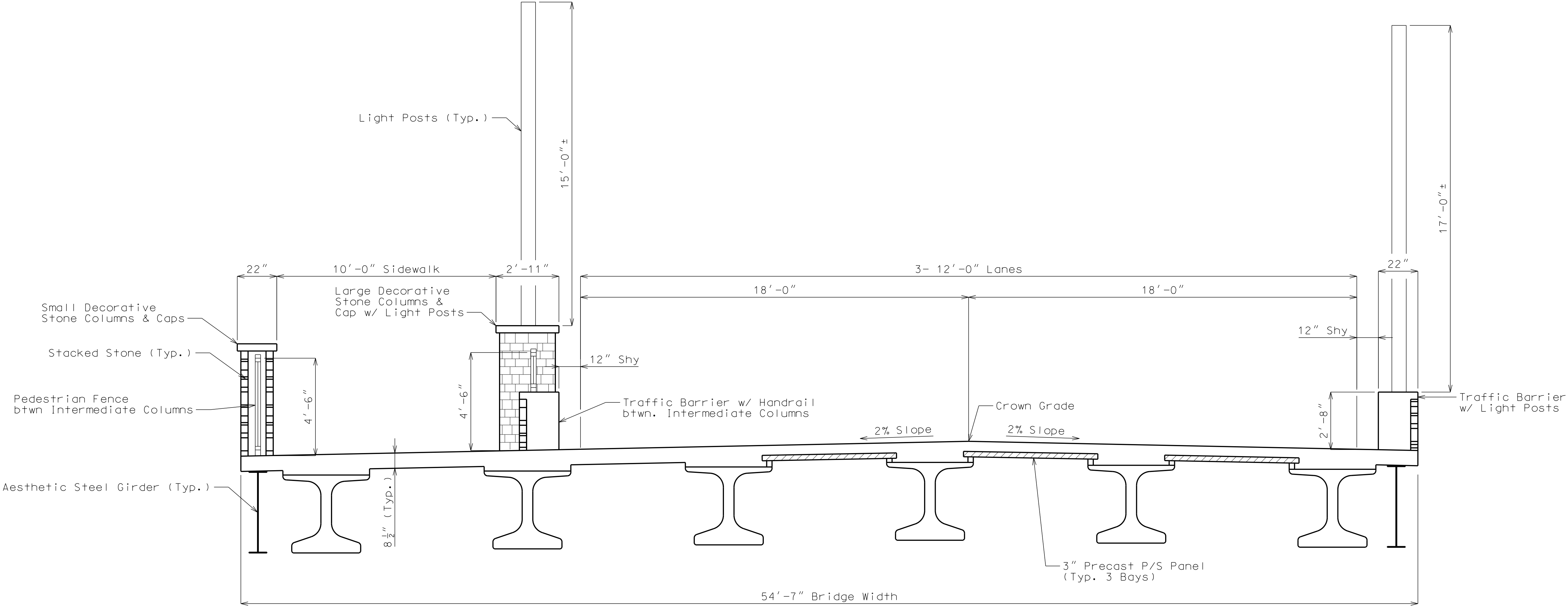
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License No. 2009010386

Bridge Plans
Bridge Aesthetic Details

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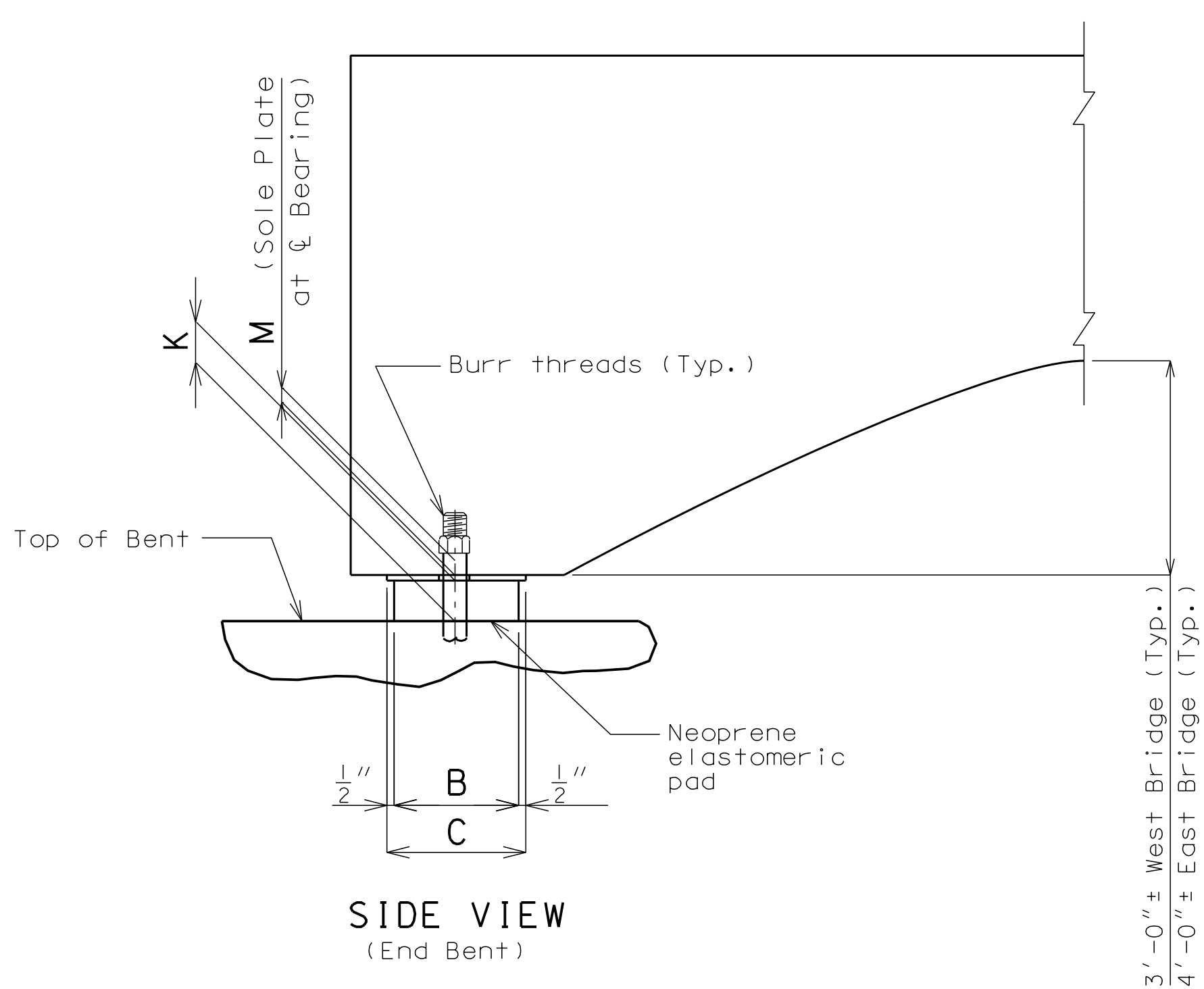
NO.	DATE	REVISIONS	BY	APPROVED



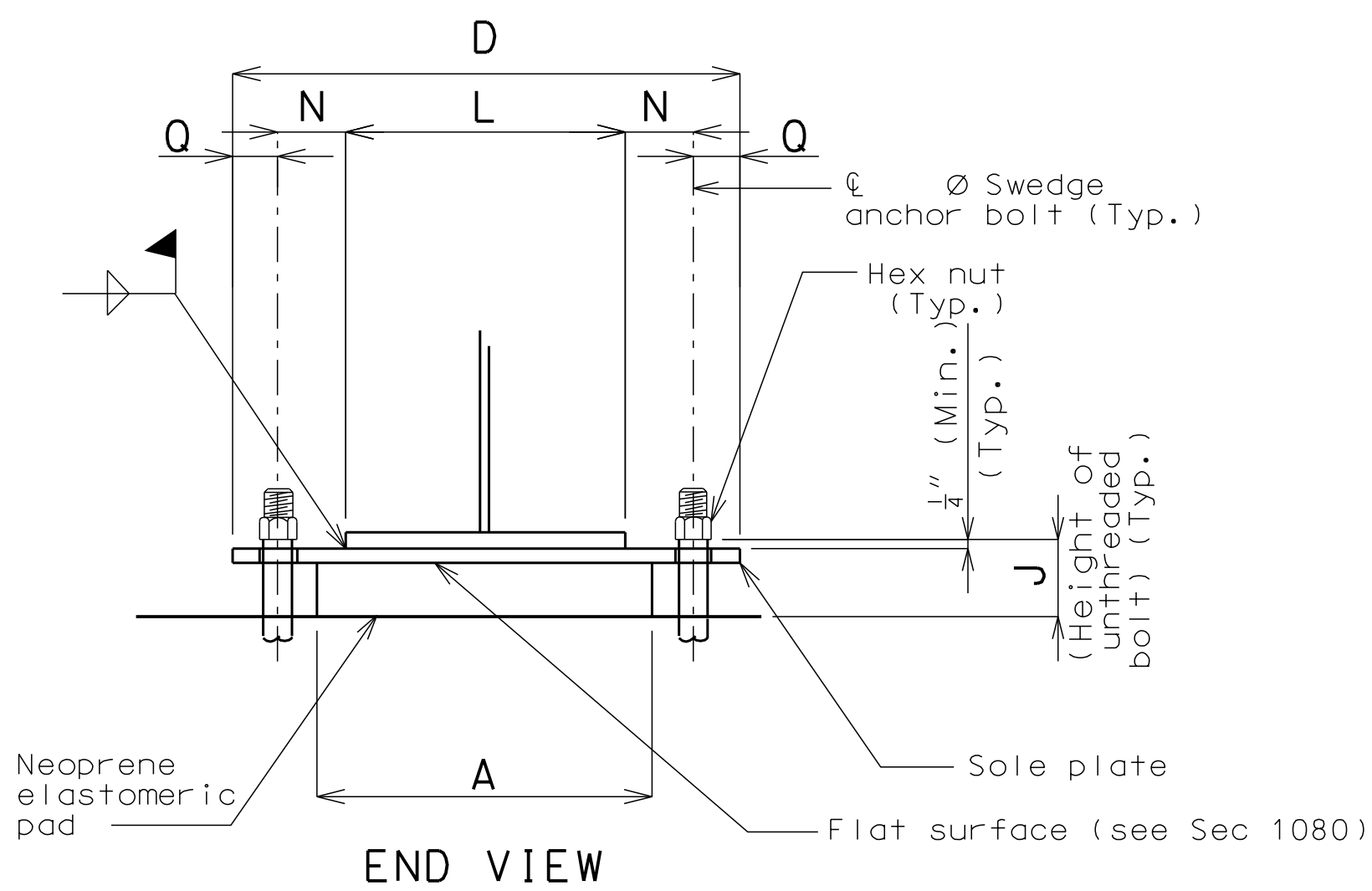
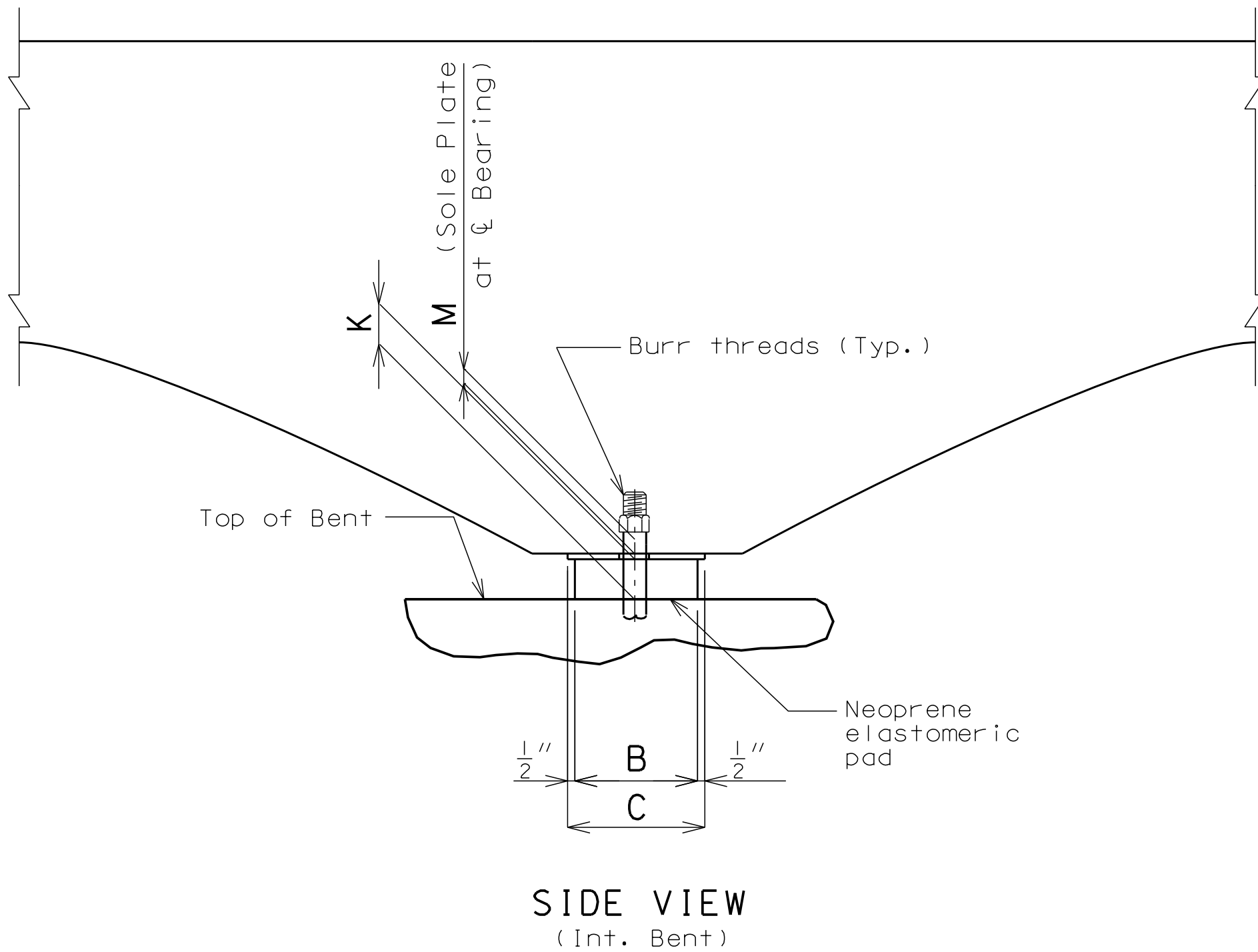
TYPICAL SECTION

Note: This drawing is not to scale. Follow dimensions.

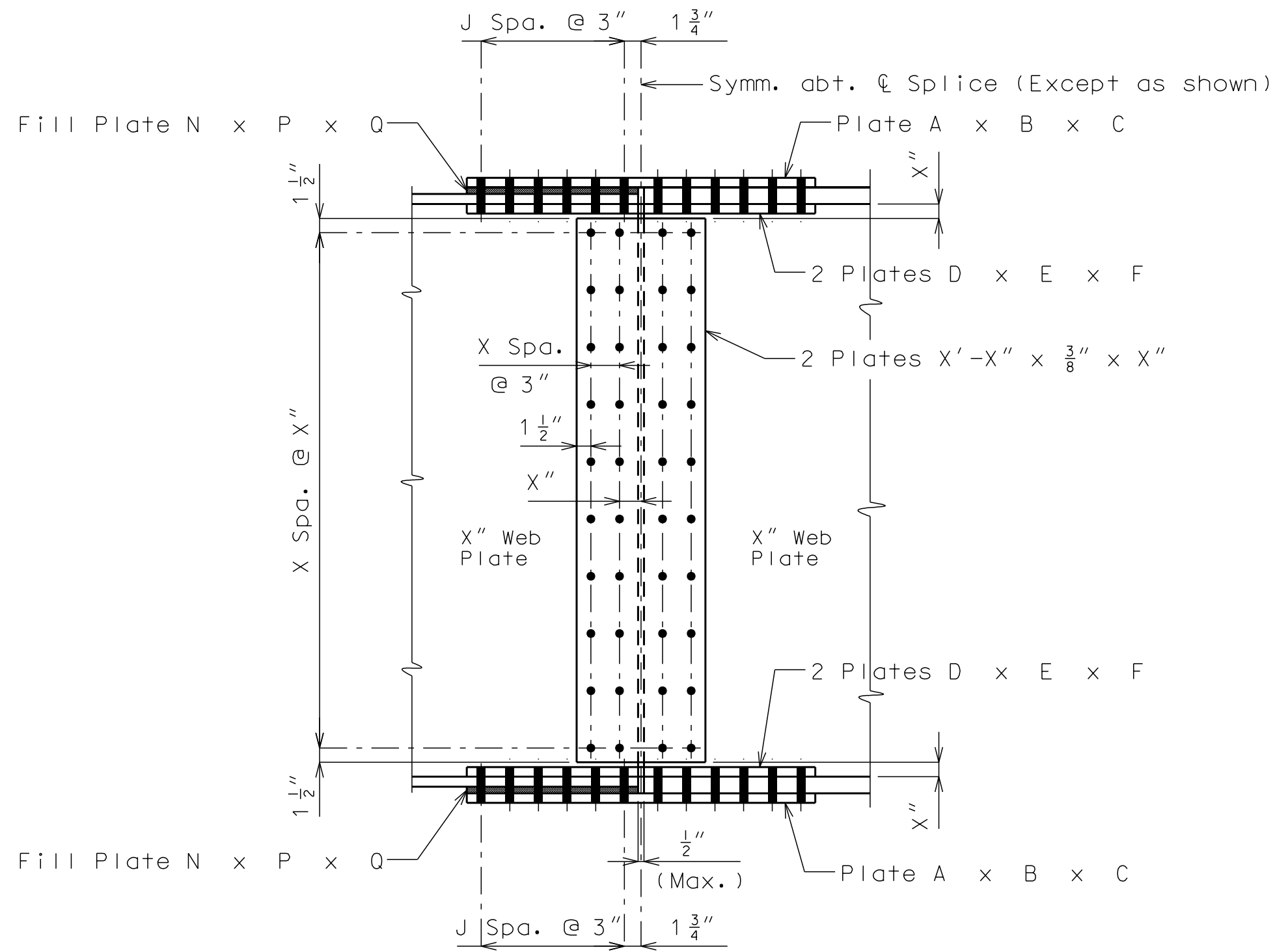
Architect 00212, Professional Engineer 00025, Landscape Architect 00025, Professional Land Surveyor 000259



3'-0" ± West Bridge (Typ.)
4'-0" ± East Bridge (Typ.)



DETAILS OF AESTHETIC STEEL GIRDER & ANCHORS AT END BENT & INT. BENT



DETAIL OF BOLTED FIELD SPLICE

Use 7/8"Ø high strength bolts with 15/16"Ø holes.

Contact surfaces shall be in accordance with Sec 1081 for surface preparation.

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Bridge Plans
Steel Aesthetic Details

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