Colorado Department of Transportation Staff Bridge Bridge Detail Manual Chapter: 8 Effective: June 30, 2024 Supersedes: October 11, 2023

Bridge Hydraulic Information

8.1 Purpose

This drawing or set of drawings, is to indicate all pertinent hydraulic information necessary in the design of a structure or structures at a given location.

8.2 Responsibility

This drawing is prepared by the Hydraulic Section or a Hydraulics Consultant. The responsibility for the accuracy of the hydraulic information presented on this drawing rests with the Hydraulics Engineer.

8.3 Check Items

Listed below are items to be checked in reviewing this drawing.

- A) Net and excavated channel width and elevation.
- B) Riprap limits, size, thickness, and upper and lower riprap elevations.
- C) Design year and 500 year scour lines.
- D) Highwater surface elevations (500, 100 year flood).
- E) Centerline of channel and direction of flow.

See CDOT Drainage Design Manual (chapters 4, 9 and 10) for additional information.

8.4 Title Block

This drawing is titled "BRIDGE HYDRAULIC INFORMATION", and shall be so indicated in the title block. In addition to the above, the following information shall be placed in the proper locations of the title block:

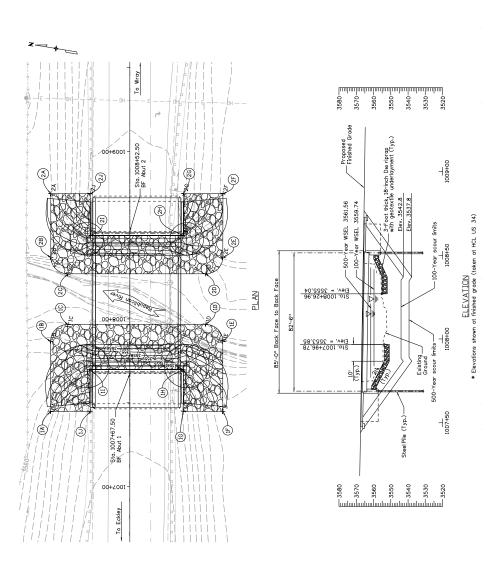
- A) Initials of, or first initial and last name of the Designer and Detailer preparing the drawing.
- B) Structure Number or Numbers.
- C) Bridge drawing number.

8.5 Additional Details

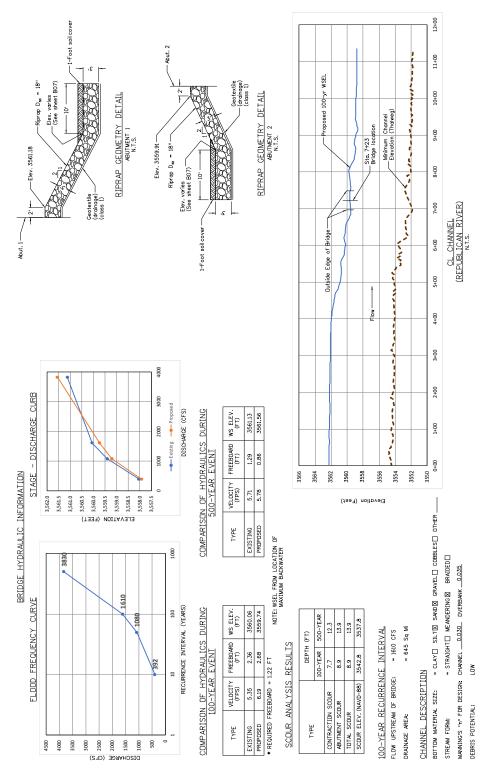
There may be instances when additional details are required, such as bank protection, channel changes, etc. If possible, these details should be shown on this drawing; however, if additional drawings are required, they should directly follow the "BRIDGE HYDRAULIC INFORMATION" drawing.

RIPRAP LOCATIONS	Easting	3905430.614	3905471.946	3905483.494	3905496.993	3905488.829	3905447.497	3905443.624	3905468.255	3905459.121	3905434.488	3905558.723	3905521.403	3905513.239	3905526.738	3905538.286	3905575.606	3905571.733	3905547.100	3905537.972	3905562.597
Ь	Northing	1287033.527	1287040.624	1287032.460	1286953.842	1286942.294	1286935.197	1286957.757	1286961.993	1287015.190	1287010.967	1287055.523	1287049.115	1287037.567	1286958.949	1286950.785	1286957.193	1286979.753	1286975.531	1287028.690	1287032.963
TABLE	Position Label	ΙA	81	OI	9	H	1	16	Ξ	11	LI.	2A	2B	2C	2D	2E	2F	2C	2н	21	2.1

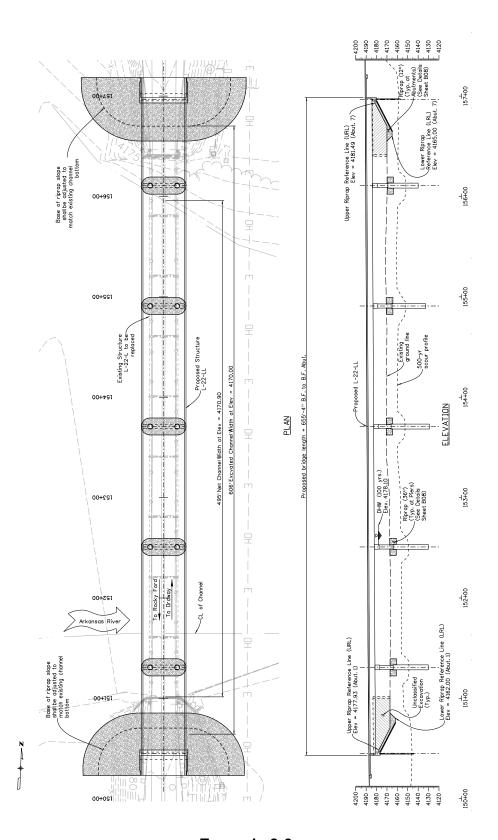
NOTES 1. Altropo slopes are 21 (perpendicular to abutment). 2. The contractor is responsible for any and allicans associated with the instillation of the ripropy including, but not limited to, exactlering I have cost for the instillation will not be measured or paid for separately but included in the cost of riprop.
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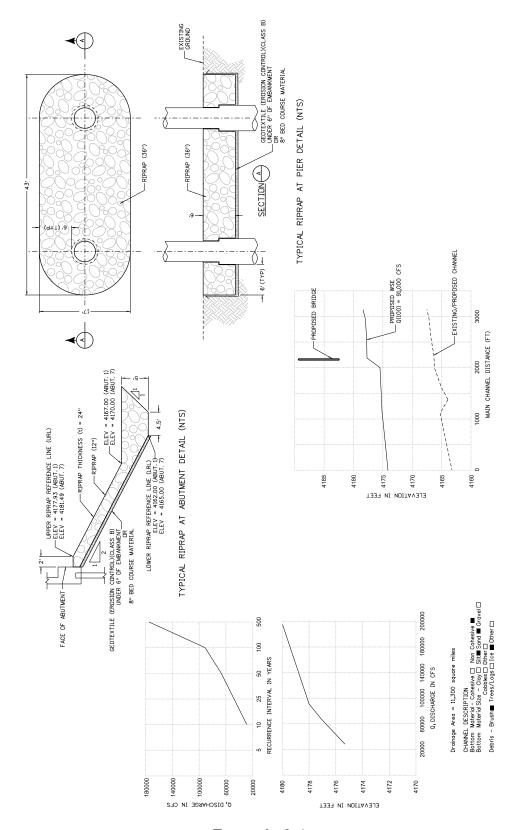
Example 8-1



Example 8-2



Example 8-3



Example 8-4