Section 1 - BRIDGE SUPERSTRUCTURE

PC/Pretensioned I Girder (MISC DETAILS)

XS Sheet Numbers:

xs1-120-3

Description of Component:

Precast Pretensioned I Girder (MISC DETAILS)- this sheet shall be used in conjunction with xs1-120-1 or xs1-120-2.

Standard Drawing Features:

1) Optional Notched End Detail:
   - This detail shows a notched end block. When inverted T-bent caps are used, notched end blocks are required. The designer is responsible for customizing the details for the project.
   - If notched ends or end blocks are required, specify a minimum length of four feet to give precast manufacturers some flexibility to adjust the standard section form.
   - Consider specifying only one end block for the girder if necessary.
2) Detail B:
   - The designer is responsible for the analysis and design of notched ends.
   - A minimum of four #7 reinforcement is recommended.
3) Sections C-C and D-D:
   - If notched ends are used, Sections C-C and D-D must be shown.
   - If end blocks are used without a notch, only Section C-C must be shown.
4) Intermediate Diaphragm and Section E-E:
   - Standard intermediate diaphragm details are provided.
   - End diaphragm design is project-specific, and the details for the intermediate diaphragms may be used for end diaphragms.
5) Detail C:

   This detail is typically only used for exterior girders at intermediate and end diaphragm locations.
6) Welded Wire Reinforcement (WWR) Alternative and Detail A:
   - Standard shear reinforcement may be replaced by WWR. The contractor needs to show this on the shop drawings.

- The requirements for using WWR are listed in AASHTO LRFD BDS, BDM 5.3, and the Standard Specifications.
- WWR size can vary based on the design. Requirements for size and locations are shown in Detail A.

Additional Drawings Needed to Complete PS&E:

This sheet must be accompanied by xs1-120-1 or xs1-120-2.

Contract Specifications:

Standard Specifications 2024

Restrictions on Use of Standard Drawings:

The project engineer is responsible for designing and stamping this sheet.

Special Considerations:

The project engineer may modify this sheet based on project needs.