Section 1 – Bridge Superstructure
PC/Pretensioned Wide Flange Girder (Harped Strands-Miscellaneous Details)

XS Sheet Numbers
XS1-124-2

Description of Component
Precast Pretensioned Wide Flange Girders with Harped Strands – miscellaneous details.

Standard Drawing Features
1. Optional End Block:
   - Normally, end blocks are not required. If the end blocks are needed based on design, use six feet minimum for the length so that it gives precasters some flexibility to adjust the standard section form.
   - Consider one end block for the girder if necessary.
   - If inverted T bent caps are used, a notched end block is required. Designer is responsible for modifying the details.
   - 4-#8 (minimum 3-#8) dowels are shown. But designer may change them based on the girder height and dowel spacing.

2. Typical End Block Section:
   - To reduce the girder weight, if the end block is needed, 2 feet-6 inches width of end block is preferred and shown on the plans.
   - At abutment locations with girder end block used, certain shear key design requires special attention. If bearings need to be replaced in the future, 1 foot-2 inch thick polystyrene may be required at top of the bottom flange of the girder so that the girder could be jacked up.

3. Insert Assembly:
   - Normally, it is for exterior girder only at diaphragm locations.

4. Intermediate Diaphragm and Section B-B:
   - Standard details are provided.
   - End diaphragms are project specific.

5. Welded Wire Reinforcement (WWR) Alternative and Detail A:
   - Shear reinforcement could be replaced by WWR. The contractor needs to show it on the shop drawings.
   - AASHTO LRFD Bridge Specifications, MTD 11-8, and Standard Specifications list the requirements to use WWR.
   - WWR size could vary based on the design. Minimum requirements for size and locations are shown on the Detail A.
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Additional Drawings Needed to Complete PS&E
This sheet works with XS 1-124-1

Contract Specifications
Standard Specifications 2015

Restrictions on Use of Standard Drawings
The project designer and project engineer are responsible for designing this sheet and stamping this sheet.

Special Considerations
The project designer and project engineer may modify this sheet based on project needs.