CURVED GIRDER ERECTION SUPPORT DETAIL

GENERAL NOTES:
1. This standard is to be used as a guide in preparing the required erection drawings (see Item 4.2). The contractor is responsible for the adequacy of bracing and shoring at all times.
2. Do not use timber sections less than 4" x 4" (nominal) as brace or shoring members. Do not use timbers that have rotted, split, or decayed areas.
3. Diagonal bracing (on first beam bent cap) or falsework bent cap is required when supporting over 25 Tons.
5. Minimum strength of all welded steel components used for bracing and shoring.
6. Minimum size of steel sections used for bracing and shoring.
7. Minimum grade of all steel sections used for bracing and shoring.

HORIZONTALLY CURVED I-GIRDERS:
1. Assumed loads (dead, live, wind, etc.) used to design the brace and shoring members.
2. Timber species, grade, and moisture content.
3. Grade and size of all timber used for bracing and shoring.
4. Grade and size of all threaded hardware used for bracing and shoring.
6. Required weld sizes and lengths.
7. Manufacturer's design for the adequacy of bracing and shoring at all times.

MINIMUM ERECTION AND BRACING REQUIREMENTS
STEEL GIRDERS AND BEAMS

TYPICAL BRACING PLANS

ELEVATION OF TYPICAL WELDED SPICE SUPPORTS

SKEWED

NORMAL

PLAN DETAIL A

PLAN DETAIL B

PLAN DETAIL C

SECTION A-A

DETAIL D

SUPPORT PLATE DETAILS

MINIMUM MOLD SIZE

1. Weight indicated are total weight of all sections. Special design will be required where weight of drop-in section exceeds 50 Tons or supported reaction of add-on section exceeds 25 Tons.
2. Use extra heavy duty or extra heavy service clamps with a minimum screw diameter of 1/2".
3. Place all top and bottom flange support plates before the beam or girder is erected; attach web plates and lugs immediately after erection. Exercise care in removing the support plates and lugs.
4. Provide additional timber bracing if permanent diaphragms/cross-frames do not meet requirements.

SHOWING PLATE WELDED TO THINNER OR EQUAL FLANGE

SHOWING PLATE WELDED TO THICKER FLANGE

SUPPORT PLATE DETAILS

MINIMUM MOLD SIZE

1. Weight indicated are total weight of all sections. Special design will be required where weight of drop-in section exceeds 50 Tons or supported reaction of add-on section exceeds 25 Tons.
2. Use extra heavy duty or extra heavy service clamps with a minimum screw diameter of 1/2".
3. Place all top and bottom flange support plates before the beam or girder is erected; attach web plates and lugs immediately after erection. Exercise care in removing the support plates and lugs.
4. Provide additional timber bracing if permanent diaphragms/cross-frames do not meet requirements.