METRIC DIMENSIONS ARE IN METRES AND/OR MILLIMETRES UNLESS OTHERWISE SHOWN DRAWING NOT TO BE SCALED 100mm ON ORIGINAL DRAWING





Ministry of

CONT

WP



MINIMUM BRACING REQUIREMENTS FOR NU GIRDERS INSTALLATION

GENERAL NOTES:

- 1. THE CONTRACTOR IS RESPONSIBLE FOR THE STABILITY OF THE GIRDERS AT ALL TIMES.
- 2. THIS DRAWING ADDRESSES STABILITY OF THE GIRDERS PRIOR TO FORMWORK INSTALLATION.

BRACING REQUIREMENTS:

- 1. THESE MINIMUM BRACING REQUIREMENTS CONSIST OF BRACINGS AT THE END OF EACH GIRDER AT SUPPORTS AND INTERMEDIATE POINTS.
- 2. THE CONTRACTOR IS RESPONSIBLE TO DESIGN AND INSTALL GIRDER'S END BRACINGS AS SPECIFIED IN OPSS 909 FOR THE STABILITY OF THE GIRDERS FOR APPLICABLE LOADS, AND ACCOUNTING FOR CONSTRUCTION TOLERANCES, THROUGHOUT VARIOUS CONSTRUCTION STAGES i.e. FROM THE TIME THEY ARE INSTALLED UP TO THE TIME THE GIRDERS ARE MADE COMPOSITE WITH THE DECK SLAB.
- 3. SIZE OF EACH INTERMEDIATE BRACING AND ATTACHMENT SHALL BE ACCORDING TO THE FORCES IN TABLE 1
- 4. WHEN GIRDER INSTALLATIONS ARE IN A CONTINUOUS OPERATION. GIRDERS SHALL BE IN SETS OF TWO (2) OR MORE, INSTALL INTERMEDIATE BRACING BETWEEN ALL GIRDERS WITHIN A SET, INTERMEDIATE BRACING BETWEEN SETS ARE OPTIONAL.
- 5. THE BRACING MEMBER SHALL BE ATTACHED THROUGH THE WEB OF THE GIRDER. NO ATTACHMENT TO THE GIRDER FLANGES IS PERMITTED.
- 6. THESE MINIMUM BRACING REQUIREMENTS ARE APPLICABLE WHEN THE GIRDERS ARE MADE COMPOSITE WITH THE DECK SLAB WITHIN THE SAME CONSTRUCTION SEASON. IF THE DECK CONSTRUCTION IS DELAYED UNTIL NEXT SEASON, THE CONTRACTOR SHALL DESIGN ALL PARTS OF THE BRACING SYSTEM FOR MULTI-YEAR CONSTRUCTION TO MEET THE MINIMUM REQUIREMENTS.

CONSTRUCTION NOTES:

- 1. ALL THE BOLT HOLES IN THE GIRDERS FOR CONNECTING THE BRACINGS SHALL BE PRE-FORMED AT THE TIME OF GIRDER FABRICATION. NO FIELD DRILLED HOLES ARE PERMITTED.
- 2. END BRACING SHALL BE INSTALLED IMMEDIATELY AFTER GIRDER PLACEMENT AND BEFORE ANY RIGGING IS DISCONNECTED FROM THE GIRDER OR CRANE.
- 3. INTERMEDIATE BRACING SHALL BE INSTALLED IMMEDIATELY AFTER ADJACENT GIRDER INSTALLATION.
- 4. THIS BRACING SYSTEM AND ITS COMPONENTS SHALL NOT BE REMOVED UNTIL THE GIRDERS ARE MADE COMPOSITE WITH THE DECK SLAB
- 5. WHEN THE SYSTEM IS REMOVED. THE PRE-FORMED GIRDER HOLES SHALL BE FILLED WITH NON-SHRINK GROUT IMMEDIATELY AFTER REMOVAL OF THE BRACING CONNECTIONS.

LEGEND:

- 7 TENSION
- C COMPRESSIONINT. - INTERIOR
- EXT. EXTERIOR



INT. GIRDER ABUTMENT/PIER