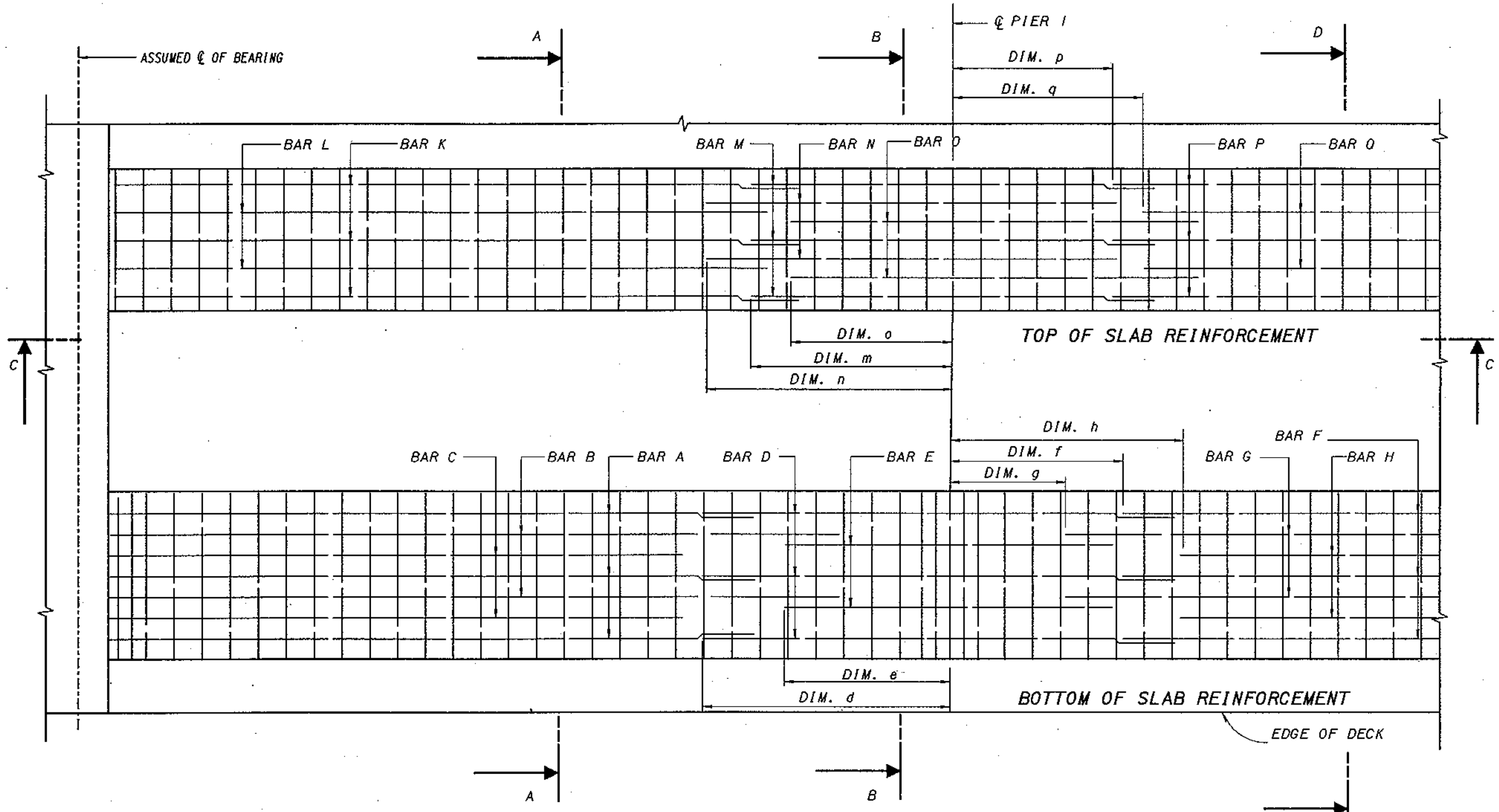
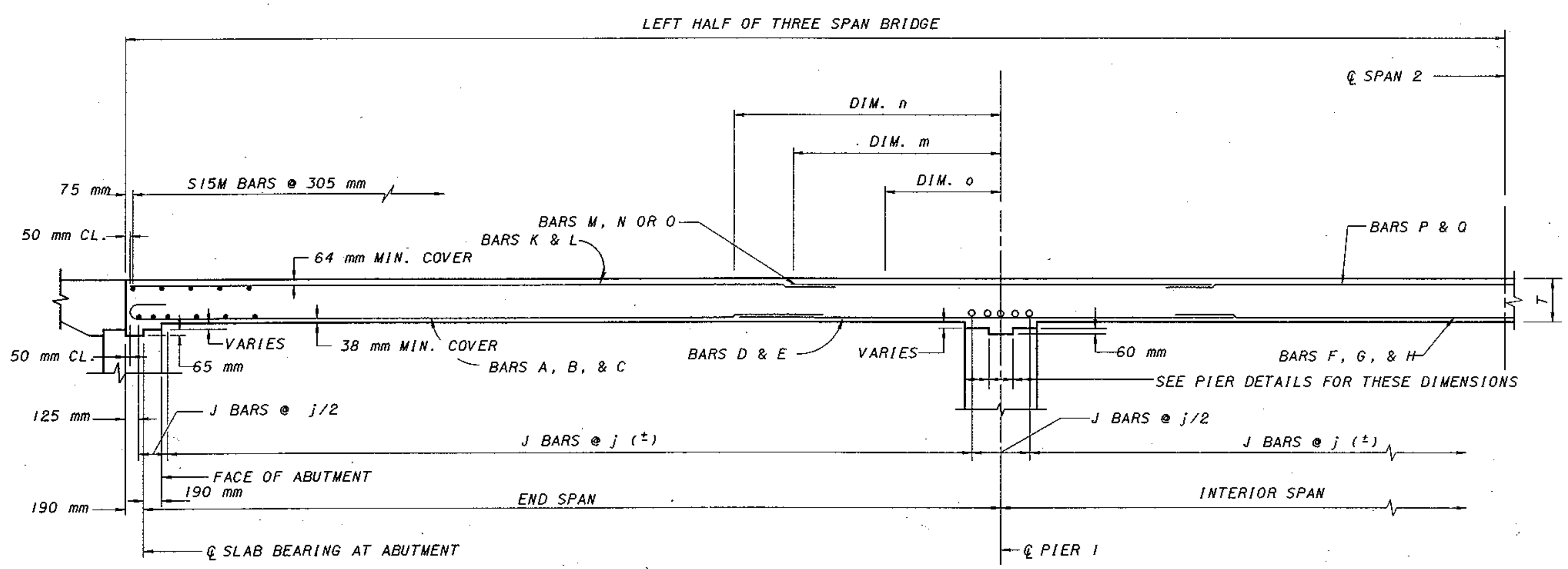


SEE SHEET NO. 2/3 FOR SECTIONS A - A, B - B AND D - D

PARTIAL PLAN VIEW



SECTION C - C

GENERAL NOTES

GENERAL: THIS STANDARD DRAWING PROVIDES DESIGN AND GENERAL CONSTRUCTION DETAILS FOR THREE SPAN SLAB BRIDGES. THE PROJECT PLANS FOR EACH STRUCTURE WILL SHOW SPAN LENGTHS, ROADWAY WIDTHS, SKEW, CURVE, AND SUPERELEVATION (IF ANY), ELEVATIONS, SLAB REINFORCEMENT DETAILS IN PLAN AND CROSS SECTIONS, SUBSTRUCTURE DETAILS, ESTIMATED QUANTITIES, REINFORCING STEEL LIST AND OTHER NECESSARY DETAILS AND SPECIAL NOTES.

ADDITIONAL INTERIOR SPANS OF THE SAME LENGTH AS THE MIDDLE SPAN OF THE THREE SPAN SLAB BRIDGE DESIGN WITH AN 0.8 END SPAN RATIO MAY BE INCORPORATED INTO THE STRUCTURE WITHOUT CHANGE IN SLAB THICKNESS OR REINFORCEMENT. ADDITIONAL INTERIOR SPANS OF THE SAME LENGTH AS THE MIDDLE SPAN OF THE THREE SPAN SLAB BRIDGE WITH 0.7 END SPAN RATIOS REQUIRE A 25% INCREASE IN THE NEGATIVE REINFORCEMENT (TOP DECK STEEL) AT THE PIERS CLOSEST TO THE ABUTMENTS.

DESIGN SPECIFICATIONS: THIS STANDARD DRAWING CONFORMS TO "STANDARD SPECIFICATIONS FOR HIGHWAY BRIDGES" ADOPTED BY THE AMERICAN ASSOCIATION OF STATE HIGHWAY AND TRANSPORTATION OFFICIALS, 1992, AND THE OHIO BRIDGE DESIGN MANUAL.

DESIGN METHOD: LOAD FACTOR DESIGN
DESIGN LOADING: MS18 AND THE ALTERNATE MILITARY LOADING
SUPERIMPOSED DEAD LOADS: 366.93 kg/m^2
DESIGN STRESSES:
CONCRETE CLASS S - COMPRESSIVE STRENGTH 31MPa
REINFORCING STEEL - ASTM A615M, A616M, A617M GRADE 400 MINIMUM YIELD STRENGTH 400MPa
WEARING SURFACE: MONOLITHIC CONCRETE - 25 mm
DECK PROTECTION METHOD - EPOXY COATED REINFORCING STEEL, TOP AND BOTTOM MATS

SKEW: FOR BRIDGES WITH SKEW, LONGITUDINAL BARS SHALL BE PLACED PARALLEL TO CENTERLINE OF THE ROADWAY AND TRANSVERSE BARS PARALLEL TO PIERS AND ABUTMENTS. THIS STANDARD SHALL NOT BE USED FOR SKEWS GREATER THAN 30°.

BAR SIZE IS INDICATED IN THE BAR MARK. THE FIRST LETTER IDENTIFIES THE BAR LOCATION; THE NEXT TWO DIGITS AND LETTER INDICATE THE METRIC BAR SIZE DESIGNATION; AND THE REMAINING DIGITS ITS SEQUENCE NUMBER.

EXAMPLE: U15M01
1. U = LOCATION OF THE BAR IN THE STRUCTURE
2. 15M = METRIC BAR SIZE DESIGNATION
3. 01 = SEQUENCE NUMBER

DESIGN AGENCY: BUREAU OF BRIDGES AND STRUCTURAL DESIGN

STATE OF OHIO DEPARTMENT OF TRANSPORTATION
ENGINEER OF BRIDGES — 10-25-94 DATE

REVIEWED LMW | CHECKED JFF | DESIGNED MGP | DRAWN BDB | CS-1-93M

REVISIONS

STANDARD CONTINUOUS SLAB BRIDGE METRIC

1/3