#4 (E OR G) COMPOSITE SHEAR BARS AT REQ'D DESIGN SPACING

OF BEARINGS

OF BEARINGS TO PLAN

VARIES

VARIES

BEAM LENGTH

DIAPHRAGM SPACING

DIAPHRAGM SPACING

BEAM

DIAPHRAGM

#4 TOP FLANGE REINFORCEMENT

#4 BOTTOM FLANGE REINFORCEMENT (SAME SPACING AS WEB STIRRUPS)

TOTAL PLAIN BARS

TOTAL EPOXY BARS

#4 TOP FLANGE BARS (TYP.)

#4 WEB STIRRUP (SAME SPACING AS WEB STIRRUPS)

#4 BOTTOM FLANGE REINFORCEMENT

#4 EPOXY REINFORCEMENT

FOR BOTTOM FLANGE REINFORCEMENT OPTIONS, SEE SECTION A-A.

NOTE:

BEAM REINFORCEMENT NOT SHOWN FOR CLARITY.

FOR A DISTANCE OF 1.5 x BEAM DEPTH

#4 DRAPED STRAND CONFINEMENT BARS @ 6" MAX.

THE PRESTRESSING STRANDS SHALL BE 0.6" DIA. WITH LOW RELAXATION STRAND WITH A GUARANTEED ULTIMATE STRENGTH OF 270ksi.

THE PRESTRESSING STRANDS SHALL BE ASTM A615, GRADE 60.

THE TOP 2 PLAIN STEEL BARS SHALL BE ERUPTED BARS @ 6" MAX.

FOR DESIGNER NOTES, SEE BD-PC27E.

THE ALLOWABLE TENSION IN THE PRESTRESSED CONCRETE UNITS:

REQUIRED MINIMUM CONCRETE STRENGTH AT TRANSFER = 7 ksi.

REQUIRED MINIMUM CONCRETE STRENGTH AT 56 DAYS = 10 ksi.

REQUIRED MINIMUM CONCRETE STRENGTH AT SERVICE LIMIT STATE = 4 ksi. (NYSDOT PERMIT VEHICLE)

REQUIRED MINIMUM CONCRETE STRENGTH AT SERVICE LIMIT STATE = 3 ksi. (HL-93)

JACKING FORCE = 43.9 kips PER STRAND

STRAND WITH A GUARANTEED ULTIMATE STRENGTH OF 270 ksi.

TRYING FOR A DISTANCE OF 1.5 x BEAM DEPTH

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