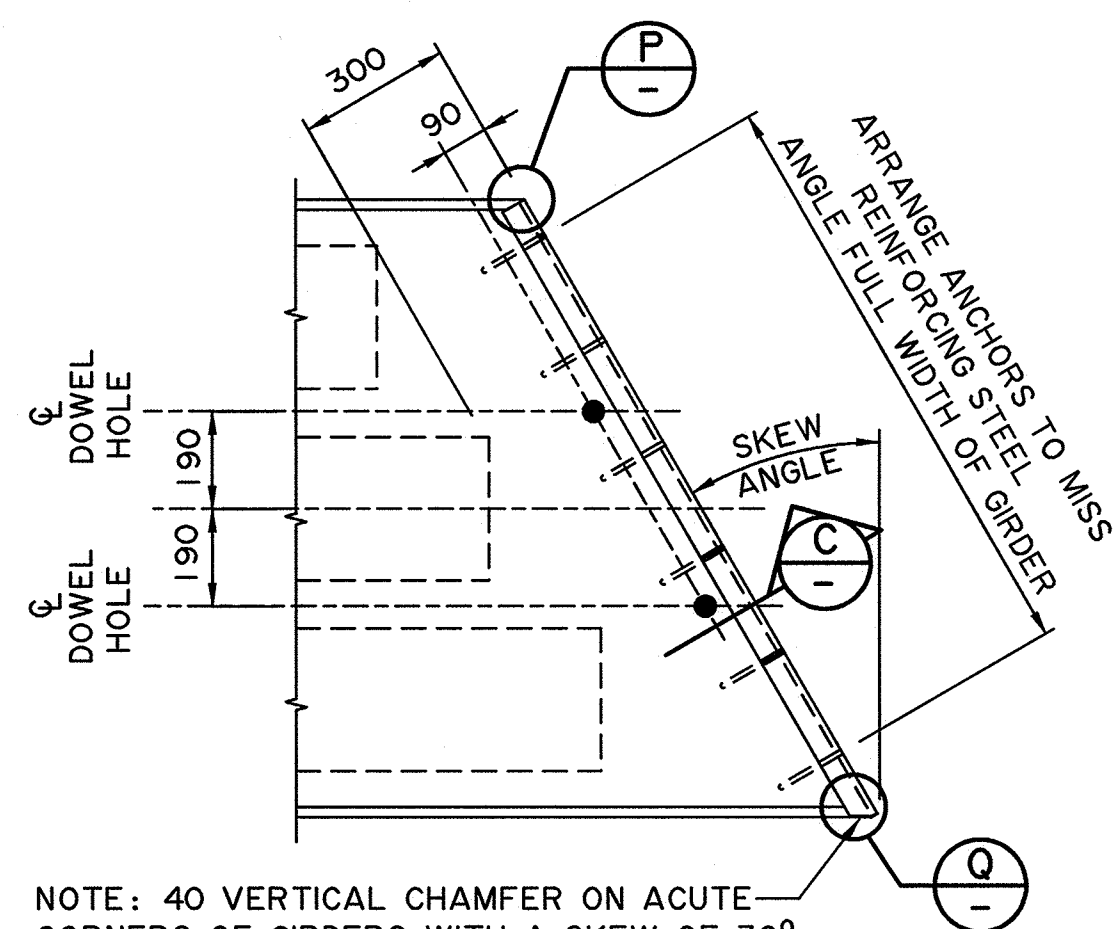
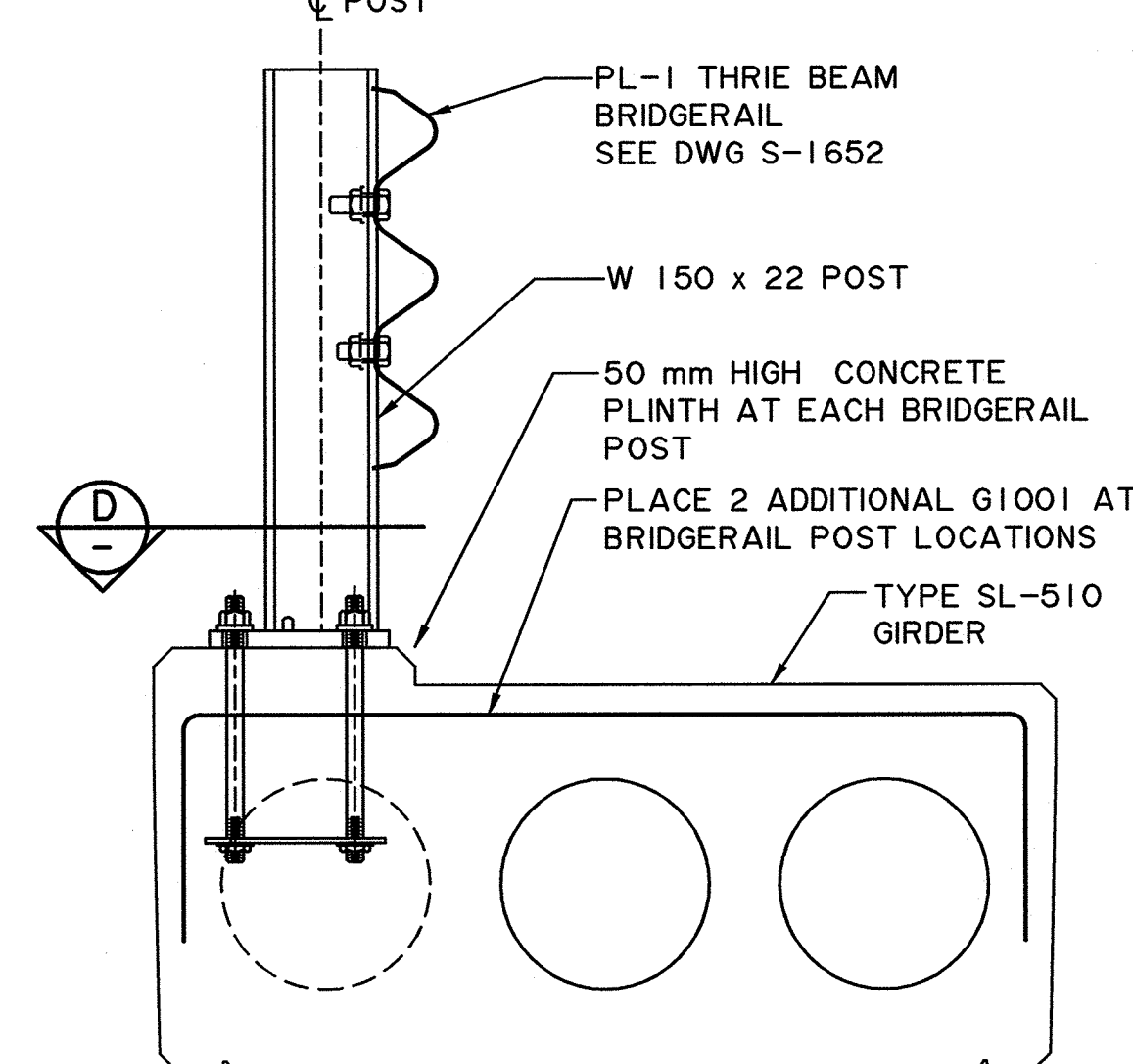
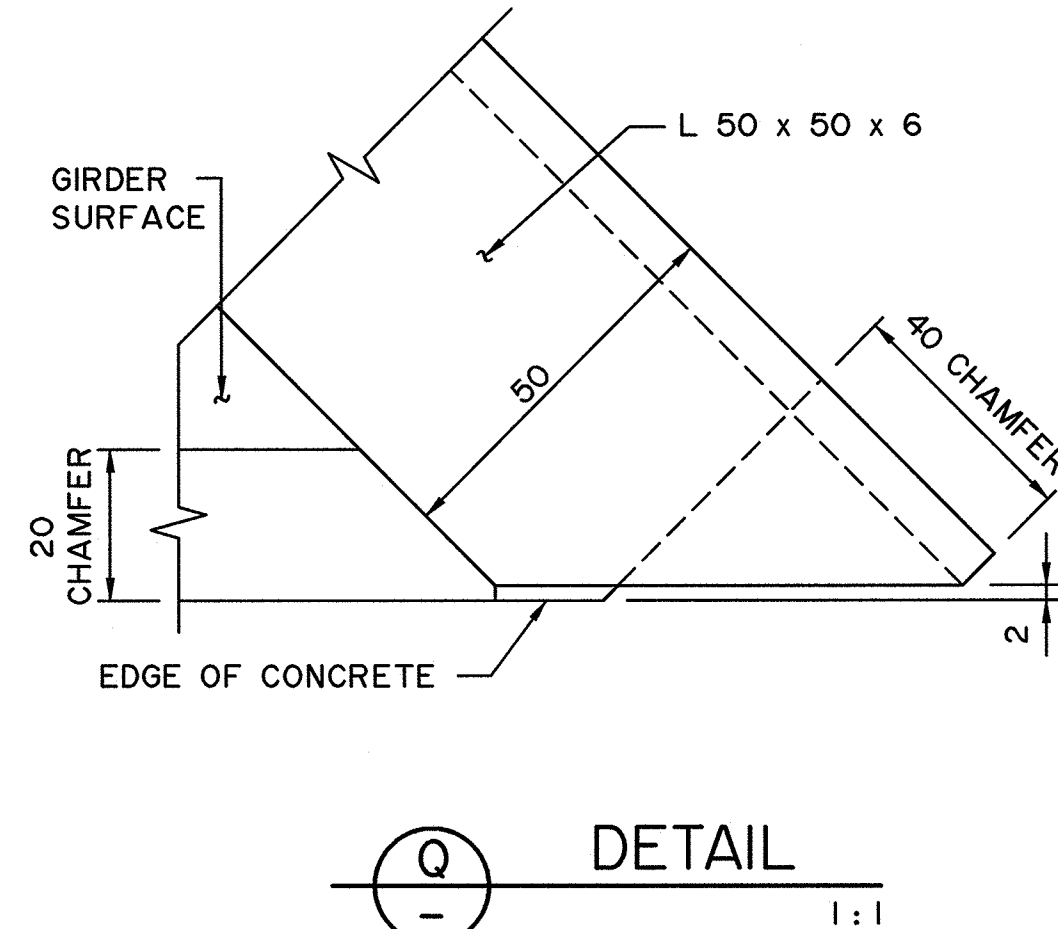
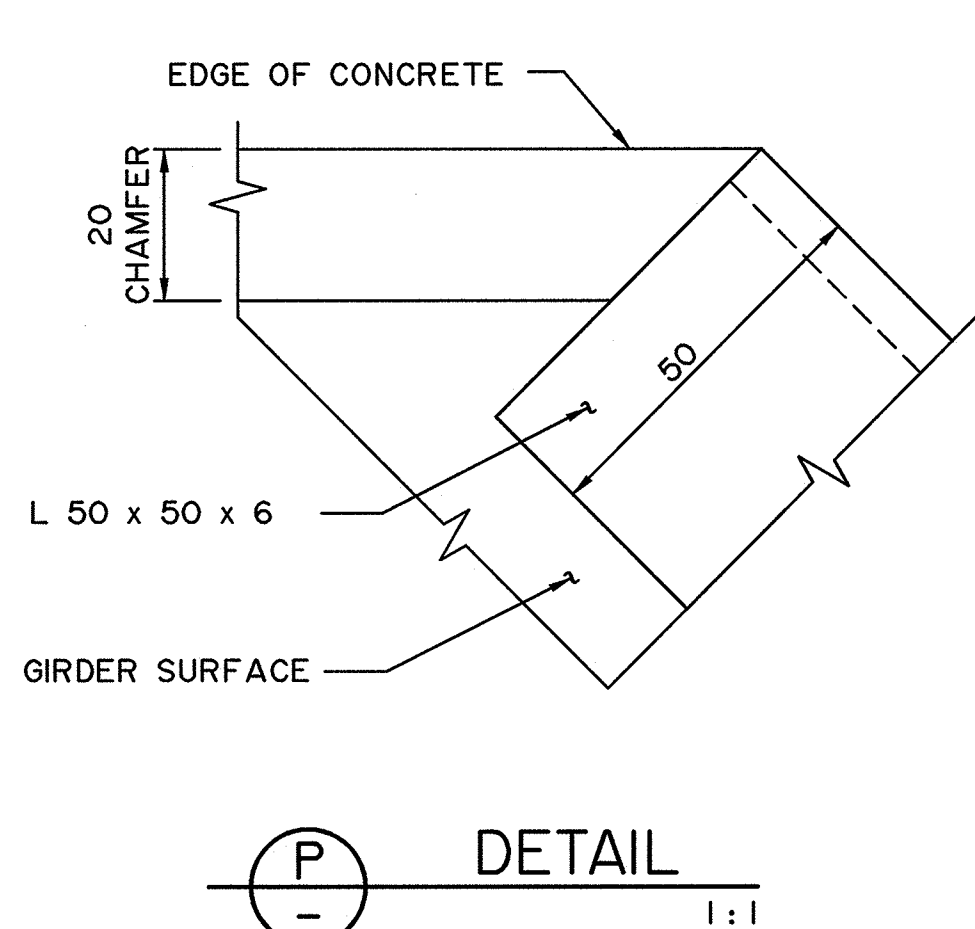


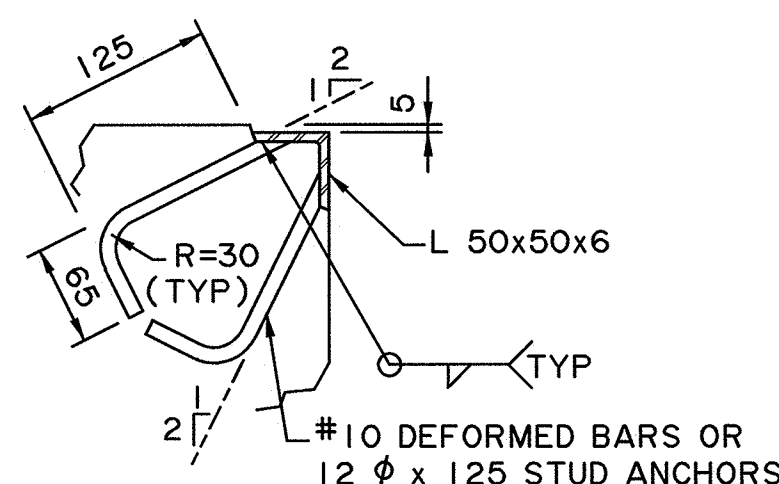


GIRDER SKEWED END PLAN DETAIL
1:15



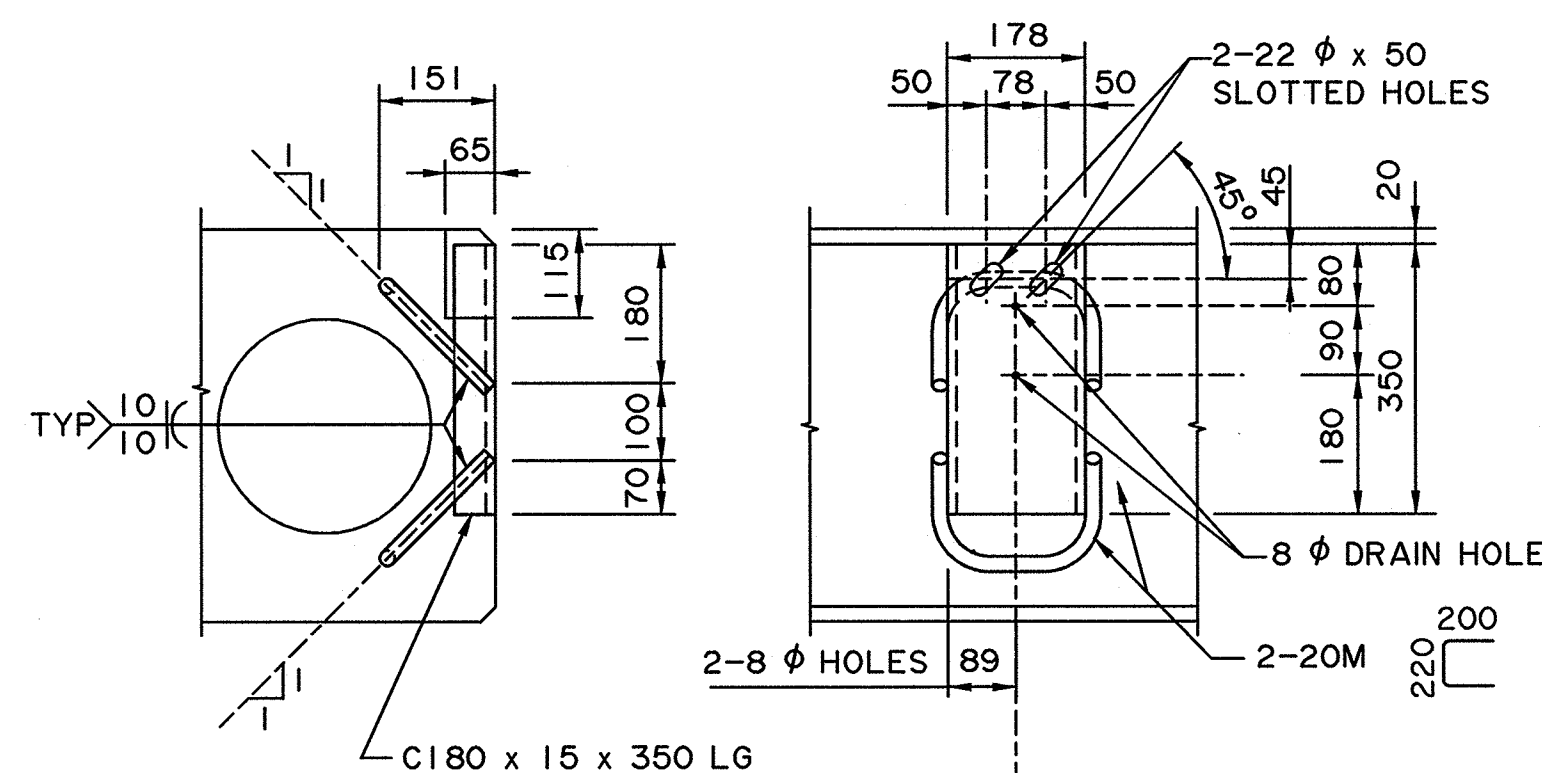
TYPICAL EXTERIOR GIRDER
1:10

CONNECTOR POCKET.
FILL WITH AN APPROVED
PRE-BAGGED CONCRETE
PATCHING MATERIAL FOR
BRIDGES, AS LISTED IN
THE AIT APPROVED
PRODUCTS LIST



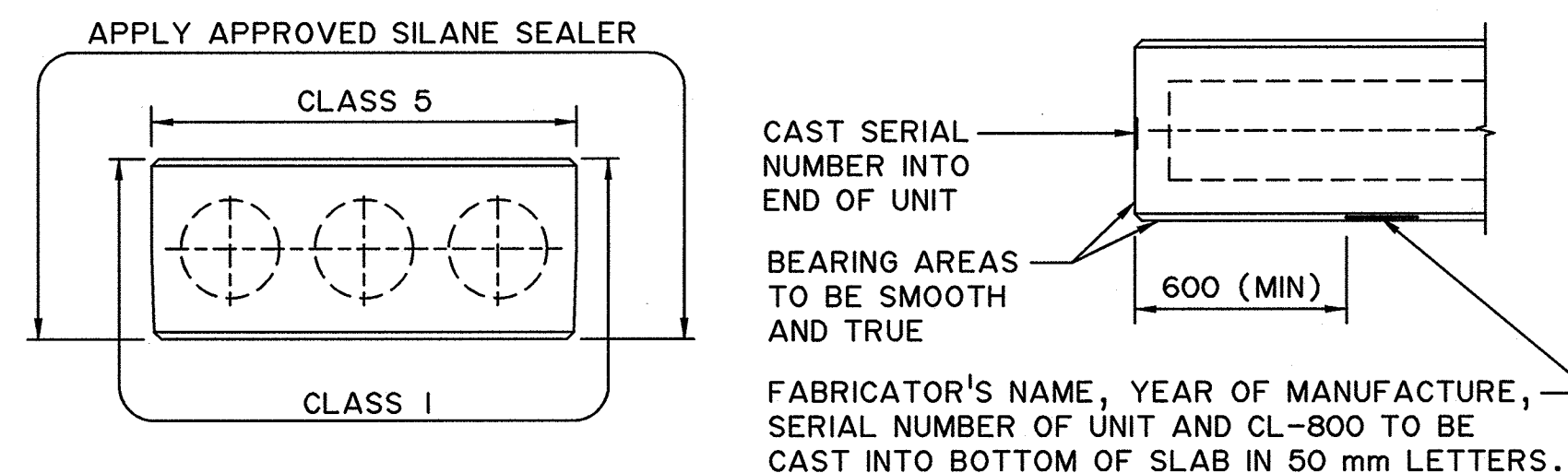
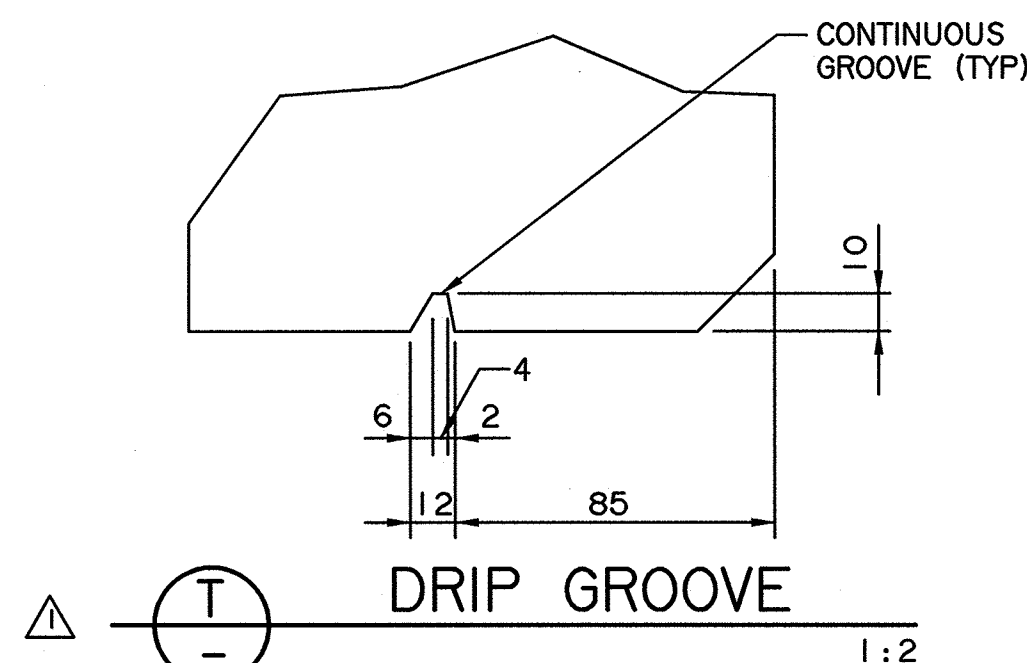
NOTE:
ASSEMBLY TO BE HOT DIP GALVANIZED AFTER FABRICATION.

BUFFER ANGLE
1:5



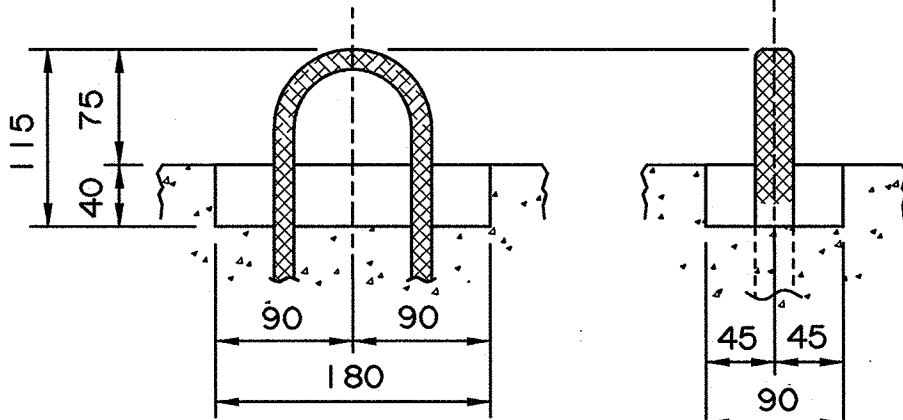
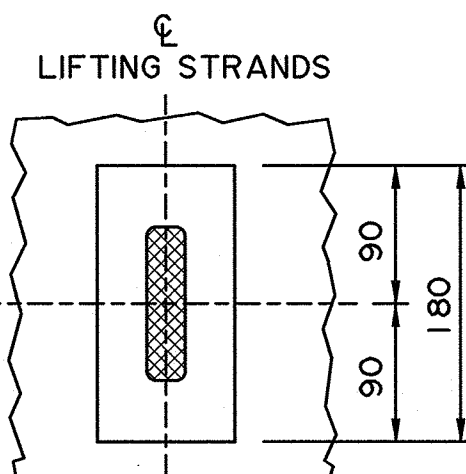
NOTE: ASSEMBLY TO BE HOT DIP GALVANIZED AFTER FABRICATION.

GIRDER CONNECTIONS
1:10



GIRDER FINISHES
(BY FABRICATOR)
1:20

NOTE:
• 2-15mm ϕ , 7 WIRE STRANDS. 1000 MIN EMBEDMENT EACH END.
• AFTER GIRDERS ARE ERECTED, LIFTING STRANDS ARE TO BE CUT OFF FLUSH WITH BOTTOM OF POCKET. POCKETS ARE TO BE FILLED WITH AN APPROVED PRE-BAGGED CONCRETE PATCHING MATERIAL FOR BRIDGES, AS LISTED IN THE AIT APPROVED PRODUCTS LIST.



LIFTING HOOK POCKET
1:5

GENERAL NOTES

• ALL DRAWING REFERENCES ARE TO CURRENT DRAWINGS.

DESIGN

• CAN/CSA-S6-06 SPECIFICATIONS EXCEPT AS MODIFIED BELOW:
- ALLOWABLE TENSION IN BOTTOM FIBRE AT MIDSPAN = 2.0 MPa EXCEPT WHERE NOTED ON GIRDER SPECIFIC DRAWINGS.
- NO TENSION ALLOWED IN DECK SURFACE.

LOADING:

LIVE LOAD - CAN/CSA-S6-06: CL-800
- ONE WHEEL LINE PER GIRDER
DEAD LOAD - GIRDER = 1.16 t/m
- ALLOWANCE FOR FUTURE WEARING SURFACE (90 mm ACP AND WATERPROOFING) = 0.26 t/m

MATERIALS

• CONCRETE SHALL BE STANDARD WEIGHT, CONTAINING 10% SILICA FUME AND NOT LESS THAN 5% AIR ENTRAINMENT.
• 28 DAY CONCRETE STRENGTH:
- 50 MPa FOR ALL SPANS EXCEPT THE 14.0 m SPAN.
- 70 MPa FOR THE 14.0 m SPAN ONLY.
• CONCRETE RELEASE STRENGTH:
- 35 MPa FOR ALL SPANS EXCEPT THE 14.0 m SPAN.
- 40 MPa FOR THE 14.0 m SPAN ONLY.
• PRESTRESSING STEEL SHALL BE 15 ϕ , 7 WIRE LOW RELAXATION STRAND (fpu = 1860 MPa).
• REINFORCING STEEL SHALL BE GRADE 400W. TACK WELDING OF REINFORCING SHALL NOT BE ALLOWED.

FABRICATION

• GIRDERS SHALL CONFORM TO THE CURRENT REQUIREMENTS OF THE SPECIFICATIONS FOR BRIDGE CONSTRUCTION SECTION 7 - PRECAST CONCRETE UNITS.
• ALL GALVANIZING SHALL CONFORM TO CSA SPECIFICATION G164.
• BEND OR SHIFT REINFORCING WHERE REQUIRED TO CLEAR GIRDER CONNECTORS AND LIFTING HOOK ASSEMBLIES. STIRRUP SPACING IS TO BE MAINTAINED.
• ALL EXPOSED CONCRETE CORNERS SHALL HAVE A 20 mm CHAMFER OR FILLET UNLESS NOTED OTHERWISE.

ERECTION

• LIFTING FORCE SHALL BE VERTICAL AT ALL TIMES.
• GIRDERS SHALL BE MAINTAINED LEVEL AT ALL TIMES.
• ANY FREE SPACE BETWEEN CONNECTORS SHALL BE FILLED WITH DROP-IN WASHERS.